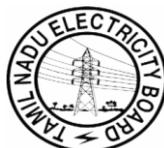


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<p>An initiative of</p>  <p>Ministry of Power, Government of India</p>	<p>Restructured Accelerated Power Development and Reforms Programme (R-APDRP) of Govt. of India <u>REQUEST FOR PROPOSAL (RFP)</u> for selection of 'IT Implementation Agency' to assist the Tamil Nadu Electricity Board for implementation of IT infrastructure For further details, please visit the website: www.tneb.in</p>	<p>Purchaser</p>  <p>Tamil Nadu Electricity Board</p>
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Request for Proposal
Under Gol's R-APDRP



Purchaser: Tamil Nadu Electricity Board

RFP Identification No: R-APDRP/ITIA/2/2009
Single Stage - Two Envelope Selection Procedure

The last date for submission of RFP is **30.10.2009 at 14.00 Hrs.**

Disclaimer :

SRS document is generic in nature, vendor neutral and technology independent. Whenever any material or article is specified or described by the name of any particular brand, manufacturer or trade mark, the specific item shall be understood as establishing type, function and quality desired. Products of other manufacturers may also be considered, provided sufficient information is furnished so as to enable the owner to determine that the products are equivalent to those named.



G Appendix G - List of Offices for WAN Connectivity

List of offices of Utility:

* Levels refer to the position in the hierarchy of the office in the administrative setup assuming Head Quarter as level 1.

Table 23: List of Offices for WAN Connectivity

S.No	Name of Town	Name of Office at Level 2* Regional office	Name of Office at Level 3* Circle Office	Name of Office at Level 4* Division Office	Name of Office at Level 5* Sub Division Office	Name of Office at Level 6* Section Office
1	Dindigul	Madurai	Dindigul	N/Dindigul	T/Dindigul	Nagalnagar
						Begampur
						Pandiyannagr
						Nehruijnagar
						T/Dindigul
2	Palani				W/Dindigul	Rockfort
3	Kodaikanal			Palani	T/Palani	Adivaram
4	Theni			Batlagundu	Kodaikanal	T/E/kodaikanal
						T/W/kodaikanal
						Town/Theni
						North/Theni
						East/Theni



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

TABLE OF CONTENTS

Section I: Preface	2
About the Document	2
Background of RAPDRP	2
Section II: Scope of Work	5
Bid Features	5
Role of ITIA	6
Background of TNEB	6
TNEB Project Study Area	8
Corporate and IT Organogram	13
Bid Evaluation	16
Timely Execution	17
Elaboration on Appendices	17
Section III: Proposed IT Architecture	18
General Architecture Principles	18
Workflow Management System	19
Section IV: Important Considerations	21
Section IV: Illustrative High level Processes	25
New Connection Processes	25
Disconnection Process	30
Customer Care Center	34
Meter Data Acquisition System	36
GIS Applications	38
Calendar of Events	39

SECTION I: PREFACE

About the Document

The purpose of this document is selection of IT Implementation Agency (ITIA) for the Restructured Accelerated Power Development and Reforms Programme (R-APDRP) - An Initiative of Ministry of Power, Govt. of India.

Bidders are advised to study this document carefully and also make site visits to get familiarized with the utility. Submission of RFP shall be deemed to have been done after careful study and examination of this document with full understanding of its implications. This RFP document is not transferable. This document must be read in its entirety. Please verify that you have a complete copy.

Background of RAPDRP

Opportunity

Ministry of Power, Govt. of India, has launched the Restructured Accelerated Power Development and Reforms Programme (R-APDRP) in the XI Five year Plan. Power Finance Corporation Limited (PFCL) has been designated by Gol as the Nodal Agency for the programme. The programme spans from data acquisition at distribution level till monitoring of results of steps taken to provide an IT backbone and strengthening of the Electricity Distribution system across the Country under the programme. The objective of the programme is reduction of AT&C losses to 15% in project areas. The program is divided into 2 parts Part-A and Part-B. Part-A will include projects for establishment of baseline data and IT applications like Meter Data Acquisition, Meter Reading, Billing, Collections, GIS, MIS, Energy Audit, New Connection, Disconnection, Customer Care Services, Web self service, etc. to get verified baseline AT&C losses. Part-B will include distribution strengthening projects.

The ITIA would supply, install and commission one integrated solution within the broad framework provided in the SRS (System Requirement Specification) document. SRS Committee under the guidance of Ministry of Power has finalized a detailed SRS document which covers all the components of the project including hardware, software, networking, GIS among others which shall help the utilities improve their performance.

The Programme

The size of the programme is to the tune of Rs. 500 billion. The programme consists of Part-A (to the tune of around Rs. 10,000 crore) covering Information Technology



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

application in the electricity distribution system and Part B (to the tune of around Rs. 40,000 crore) covering the System strengthening, Improvement and augmentation of distribution system capacity. Both parts entail planning of measures to be taken under the programme, implementation of such measures to be taken and monitoring / evaluation of results / impact of the programme as a whole and of its various components across the Country. The focus of the programme shall be on actual, demonstrable performance in terms of loss reduction. Establishment of reliable and automated systems for sustained collection of accurate base line data, and the adoption of Information Technology in the areas of energy accounting will be essential for the success of the R-APDRP.

- The Programme is proposed to be implemented on all India basis covering Towns and Cities with a population of more than 30,000 (10,000 in case of Special Category States) as per population data of 2001 Census. In addition, in certain high-load density rural areas with significant loads, works of separation of agricultural feeders from domestic and industrial ones, and of High Voltage Distribution System (11kV) will also be taken up.

- Towns / areas for which projects have been sanctioned in X Plan APDRP shall be considered for the XI Plan only after either completion or short closure of the earlier sanctioned projects. Projects under the scheme shall be taken up in Two Parts. Part-A shall include the projects for establishment of baseline data and IT applications for energy accounting/auditing & IT based consumer service centers. Part-B shall include regular distribution strengthening projects. The activities to be covered under each part are as follows:

Part - A: Preparation of Base-line Data System for the project area covering Consumer Indexing, GIS Mapping, Automatic Metering (AMR) on Distribution Transformers and Feeders, and Automatic Data Logging for all Distribution Transformers & Feeders and SCADA / DMS system for big cities only. It would include Asset Mapping of the entire distribution network at and below the 11kV transformers and include the Distribution Transformers and Feeders, Low Tension lines, poles and other distribution network equipment. It will also include adoption of IT applications for meter reading, billing & collection; energy accounting & auditing; MIS; Redressal of consumer grievances and establishment of IT enabled consumer service centers etc.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Part - B: Renovation, modernization and strengthening of 11 kV level Substations, Transformers/Transformer Centers, Re-conductoring of lines at 11kV level and below, Load Bifurcation, Feeder segregation, Load Balancing, Aerial Bunched Conductoring in thickly populated areas, HVDS, installation of capacitor banks and mobile service centers etc. In exceptional cases, where sub-transmission system is weak, strengthening at 33 kV or 66 kV levels may also be considered.



SECTION II: SCOPE OF WORK

Bid Features

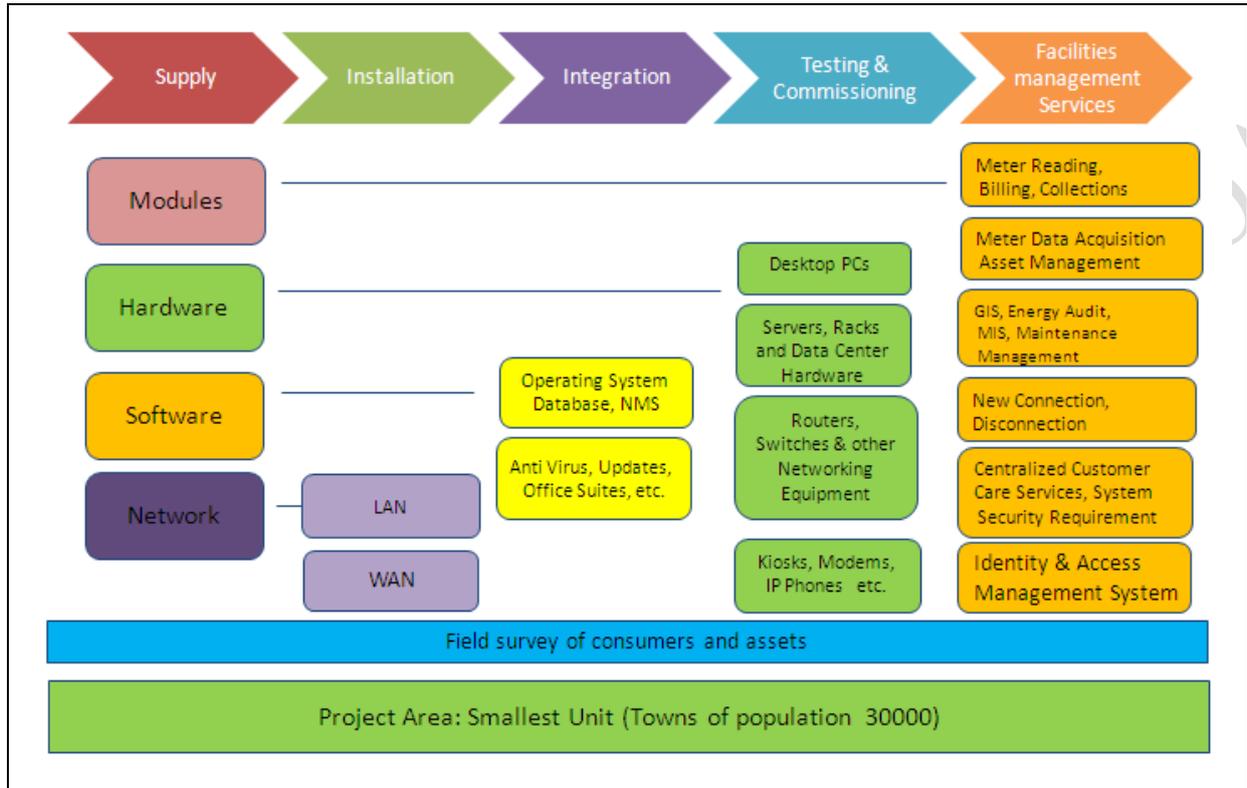
The Ministry of Power, Govt. of India has sanctioned R-APDRP schemes to TNEB against DPRs of 110 towns of Tamil Nadu. The sanctioned scheme mainly comprises of the following:

- a. Establishment of Data Center at Chennai city
- b. Establishment of Disaster Recovery Center at Madurai city
- c. Provide solution for all the modules as enumerated below:
 1. Meter Data Acquisition
 2. Energy Audit
 3. New Connection
 4. Disconnection & Dismantling
 5. Development of Commercial Database of Consumers
 6. Metering
 7. Billing
 8. Collections
 9. Centralized Customer Care Services
 10. Web Self Service
 11. Asset Management
 12. Maintenance Management
 13. GIS based customer Indexing and asset mapping
 14. GIS based integrated network analysis module
 15. Management Information System(MIS)
 16. System Security Requirement
 17. Identity and Access Management system
- d. DGPS based GIS survey in the identified towns under R-APDRP
- e. AMR Implementation
- f. Establishment of LAN, MPLS VPN and other Networking in the identified towns
- g. Establishment of Customer Call center at Chennai.



Role of ITIA

* Only for Illustrative purpose



Background of TNEB

TAMILNADU ELECTRICITY BOARD (hereinafter to be referred to as TNEB) is a statutory body formed on 01.07.1957 under the Electricity Supply Act 1948 as a successor to the erstwhile Electricity Department of then Government of Madras. The main functions of TNEB are generation, transmission and distribution so as to ensure quality power supply to its consumers at affordable rates for the entire state of Tamil Nadu.

The Government of India has planned to give “Power for all by 2012”. To achieve this, TNEB is making progress in Generation, Transmission and Distribution sector. TNEB has completed the electrification of all villages and towns in the state and is also progressing towards electrification of all households. TNEB is the biggest vertical Power Utility in our country. The area of operation under TNEB includes all the regions in Tamil Nadu.

The total area covered is around 130,058 square kilometres and the population of area covered by TNEB is 624 Lakhs approx. TNEB caters to a total of 200 Lakhs



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

consumers and has a total of around 70000 employees currently. Total revenue collection for the year 2007 - 08 was Rs, 17,936 Crores and revenue collection efficiency was 98 %.

To satisfy the energy needs of the state, TNEB has a total installed capacity of 10,214 MW which includes State, Central share and Independent power producers. Other than this, the state has power from renewable energy sources like windmill. These windmills provide power up to 4300 MW (Generation capacity wise it is first in India and fourth in the world). Transmission and Distribution loss is low at 18 %. TNEB has maximum peak demand met during the year 2008 was 9567 MW. Per capita consumption is about 1000 units. The number of Distribution Transformers is around 180763 and the length of the LT lines are around 517604 Kms.

Total number of electrified towns, villages and hamlets are around 63956 as on March 2007. In addition, 18.02 Lakhs agricultural pump sets have been given electric supply. The role of Tamil Nadu Electricity Board in improving the economy of the State of Tamil Nadu by extensive electrification of the villages, large scale energisation of agricultural pump sets and extension of electricity services to poor/backward and downtrodden sections of the society, in addition to extension of supply to large number of industries has been well recognized.

All the towns and villages of TNEB are electrified and any consumer can avail power supply by submitting requisition in the prescribed form to the appropriate office of the utility subject to fulfilling the required conditions and payment of charges as per conditions of supply of Electrical Energy and miscellaneous charges.

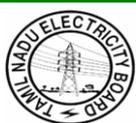


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TNEB Project Study Area

TNEB has decided to include the following towns for the scheme under R-APDRP. The population (as per 2001 census) for each of these towns is over 30,000. The objective is the establishment of baseline data systems, IT applications for energy accounting/auditing, IT based consumer care services etc. along with common requirements and services for covering the entire RAPDRP Scheme coverage areas. The total area covered under Part -A of R-APDRP is detailed below:



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

SR.NO.	NAME OF TOWN/ PROJECT AREA	POPULATION	AREA TOWN Sq.Km	OF in	NO.OF SUB- STATION	NO.OF CONSUMER
1	Chennai	6560242	926		138	2364196
2	Chengalpet	62582	6.09		1	21336
3	Maraimalainagar	48463	49.23		2	17753
4	Dharapuram	64984	7.02		1	18014
5	Palladam	30016	19.42		1	13044
6	Comibatore	1461139	150		8	281098
7	Coonoor	50079	15.05		1	15327
8	Gudalur	43096	4		1	10525
9	Mettupalayam	66887	7.20		1	19917
10	Pollachi	128458	18.90		1	20098
11	Tirupur	550826	27.40		8	138786
12	Udhagamandalam	93973	30.67		2	27947
13	Udumalpet	59668	7.40		1	24049
14	Valparai	95107	217		1	24183
15	Attur	58000	40		1	18463
16	Bhavani	104646	2.75		2	12458
17	Edappady	48815	28.22		1	13130
18	Erode	314994	91.49		1	128188
19	Gobichettypalayam	55158	7.51		1	17367
20	Mallasamudram	38900	10.81		1	5380
21	Mettur	53633	14.75		2	16640
22	Namakkal	53055	13.80		1	24972
23	Periyasemur	32024	10.10		1	12310
24	Rasipuram	50100	8.28		1	15586
25	Salem	696760	91.54		6	284050
26	Sathyamangalam	33722	2.92		2	11429
27	Tiruchengode	80187	17.64		1	32355
28	Vellakoil	34438	64.75		2	13873
29	Bodinayakanur	73410	6.88		0	19694
30	Chinnmanur	38360	25.95		1	12250
31	Devakottai	40386	12.50		1	10555
32	Dindigul	196955	14.01		2	65690



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

33	Gudalooore	36000	32	2	9322
34	Kambam	58891	4.50	1	17035
35	Karaikudi	127717	13.75	1	35061
36	Keelakarai	30412	2.50	1	10748
37	Kodaikanal	32969	21.50	1	9601
38	Madurai	1203095	90.80	8	414682
39	Melur	33881	15.02	0	12185
40	Palani	67231	6.63	1	21725
41	Paramakudi	84321	3	1	28598
42	Periyakulam	42012	2.89	1	12792
43	Ramanathapuram	62050	6	2	23483
44	Rameswaram	37968	4	1	10428
45	Sivagangai	40220	9.27	1	19526
46	Theni	85498	22.23	0	27677
47	Thirumangalam	43631	16.74	0	25788
48	Usulampattai	30601	13.17	0	13163
49	Amabasamudram	58485	17.34	1	11440
50	Aruppukottai	84029	14.56	1	28347
51	Kadayanallur	75612	100	1	21564
52	Kollencode	34425	7.92	1	7756
53	Kovilpatti	87450	43.30	2	38896
54	Muthiahpuram	31813	32.00	1	8459
55	Nagercoil	208179	19.37	3	78343
56	Puliyangudi	60080	55.17	1	12846
57	Rajapalayam	122307	11.86	1	45889
58	Sankarankovil	53606	80	1	15411
59	Sattur	31443	4.50	1	10391
60	Sivagasi	121358	6.89	2	34128
61	Srivilliputhoor	73183	5	1	25987
62	Tenkasi	63432	26.15	1	25325
63	Thoothukkudi	243415	110	4	79565
64	Tiruchendur	37101	18.60	1	11337
65	Tirunelveli	433352	900	8	155906
66	Vikramasingapuram	54795	38.57	1	12105
67	Virudhunagar	72081	6.60	1	27548
68	Aranthangi	34134	7.56	1	12238
69	Jayankondam	31268	28.49	1	10291



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

70	Karur	153365	36.50	5	56379
71	Kumbakonam	160767	12.58	2	39200
72	Manapparai	35770	15.70	1	14059
73	Mannarkudi	61588	11.50	1	23039
74	Mayiladuthurai	84505	11.27	1	26803
75	Nagapatinam	93148	16.00	1	32459
76	Pattukottai	65533	9	1	22077
77	Perambalur	37631	20.59	1	16625
78	Pudukottai	109217	12.95	2	46616
79	Sirkali	32228	13.21	1	10874
80	Thanjavur	215314	36.31	3	63425
81	Thuraiyur	31005	14.10	1	11283
82	Tiruchirappalli	866354	47.10	8	226499
83	Tiruvarur	56341	10.48	1	24100
84	Vedharniyam	31627	16	1	10939
85	Ambur	99624	17.67	1	24030
86	Arakkonam	77500	9.07	1	19601
87	Arcot	50267	7.49	0	14725
88	Dhamapuri	64496	9.54	2	35437
89	Gudiyatham	100115	4.71	1	29361
90	Hosur	84394	11.71	3	41306
91	Kanchipuram	198170	11.61	3	50088
92	Krishnagiri	64587	11.50	2	18509
93	Melvisharam	35060	8.67	0	8326
94	Pernampattu	41499	3.61	1	9144
95	Thirupathur	60876	4.68	2	18218
96	Thiruvallur	52592	7.15	2	17832
97	Tiruttani	44066	6.75	1	12705
98	Vaniyambadi	103950	9.54	1	18525
99	Vellore	451000	27.25	1	64594
100	Arni	60815	11.62	1	19704
101	Chidambaram	57733	4.80	1	18426
102	Cuddalore	158634	27.69	2	60932
103	Kallakkurichi	36791	11.63	3	17385
104	Nellikuppam	44222	4.50	1	7894
105	Panruti	55346	18	1	17547
106	Tindivanam	67737	22.33	1	20064

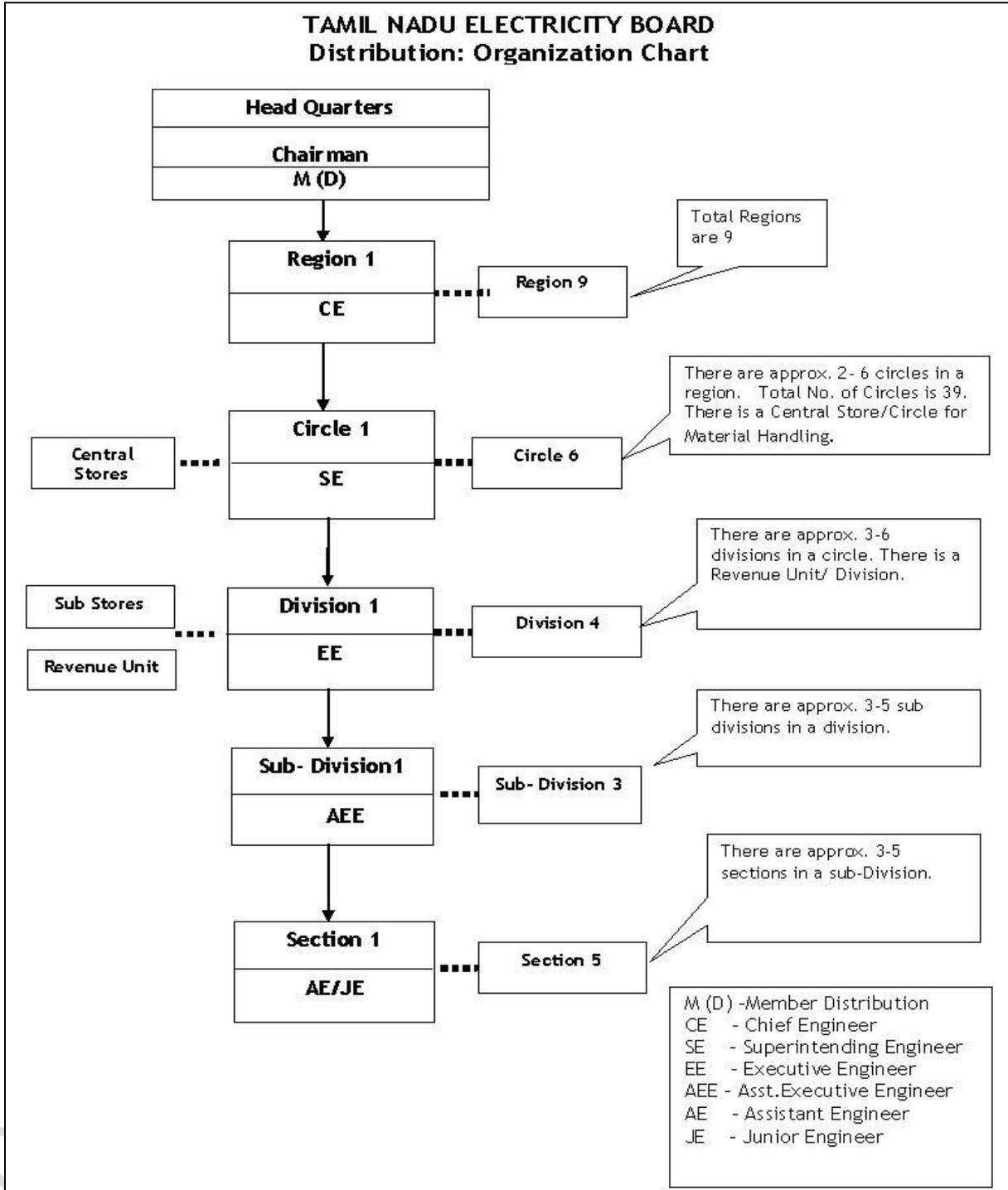


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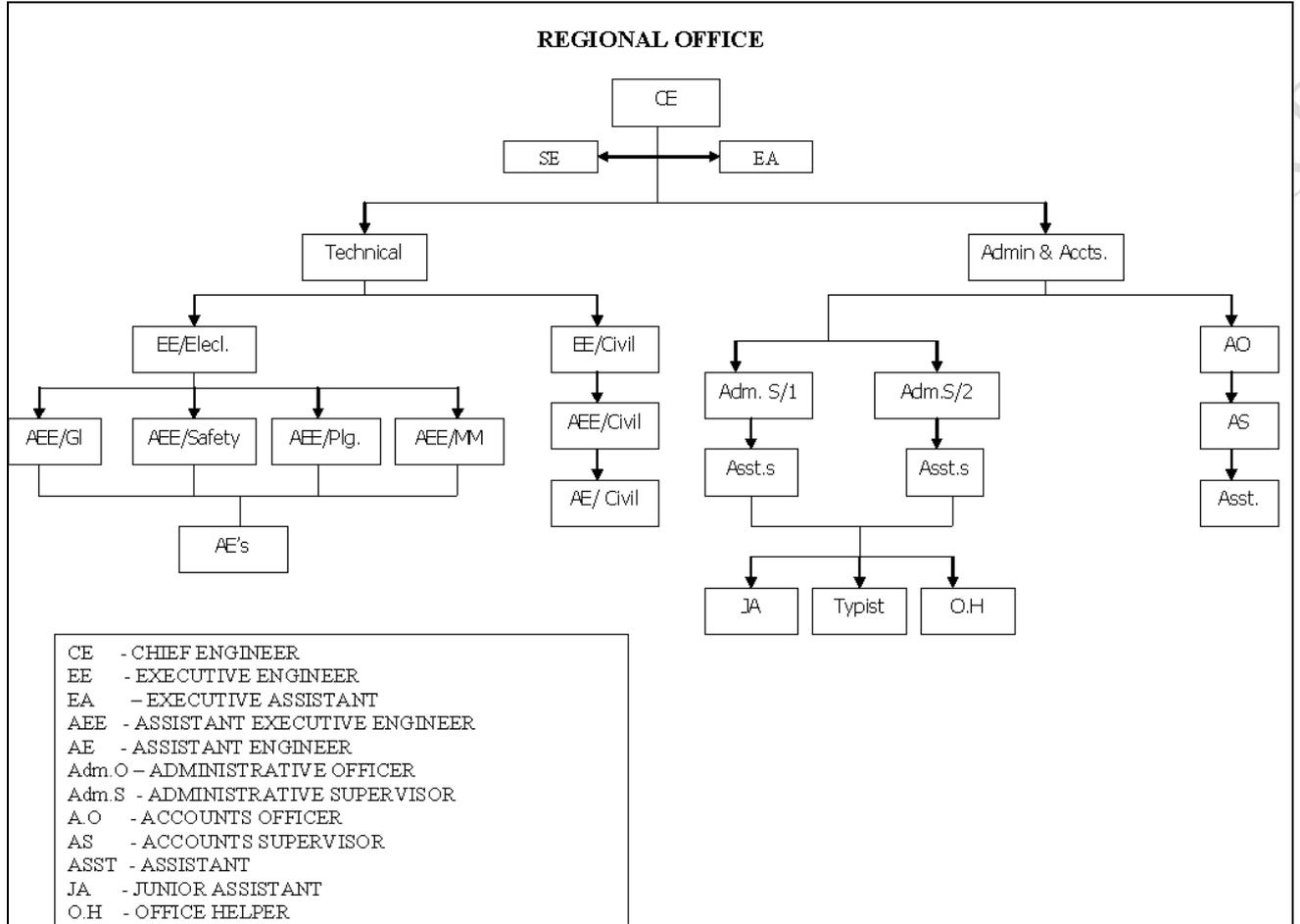
107	Tiruvannamalai	130567	13.64	4	43568
108	Tiruvettipuram	35201	10.76	1	12564
109	Villupuram	95455	8.60	1	33762
110	Virudhachalam	60164	17.60	2	32047
Total				319	6366920



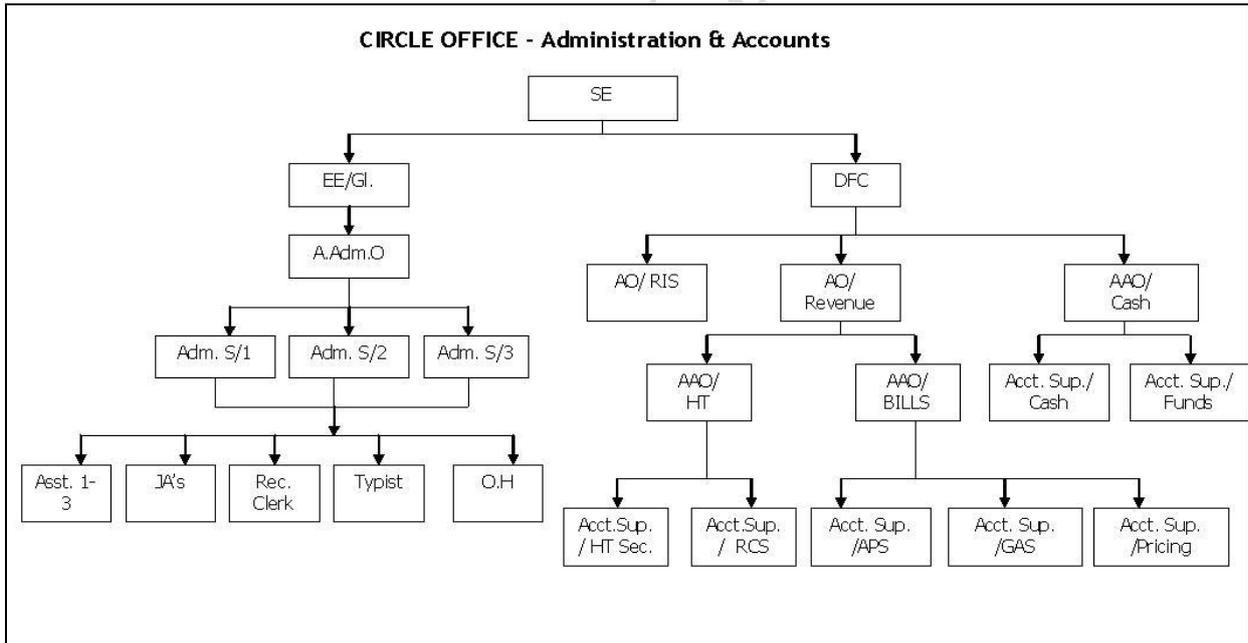
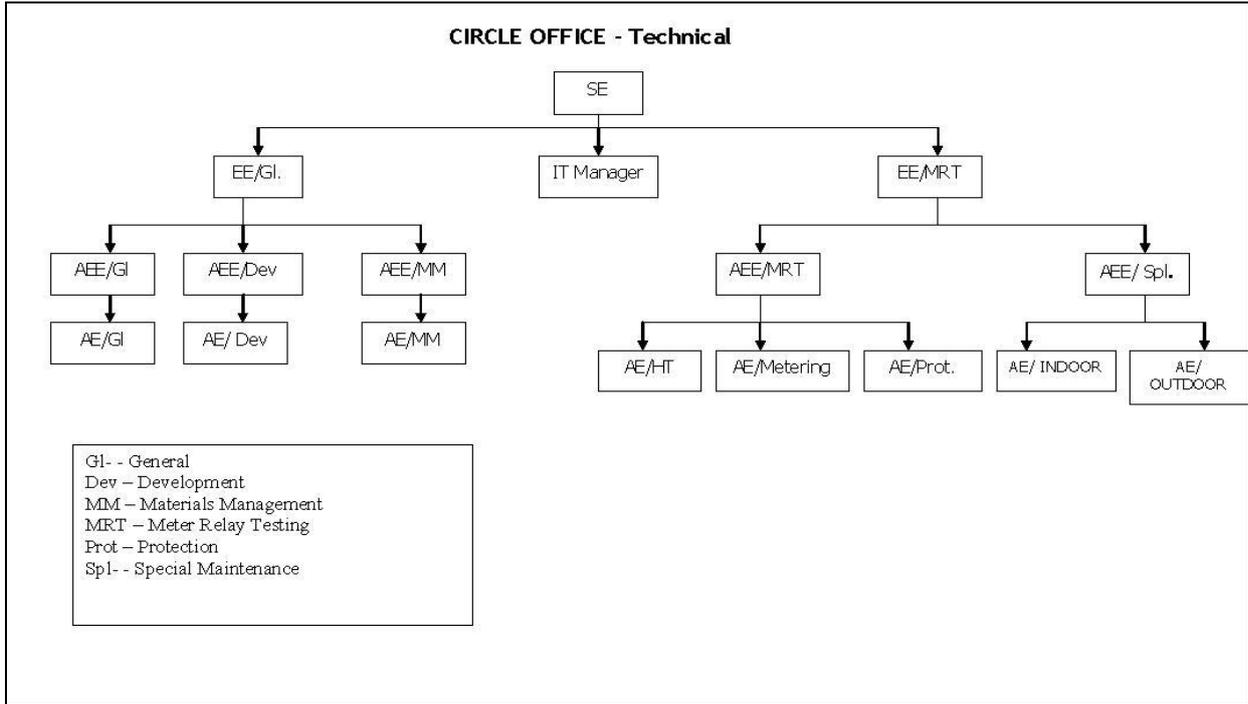
Corporate and IT Organogram



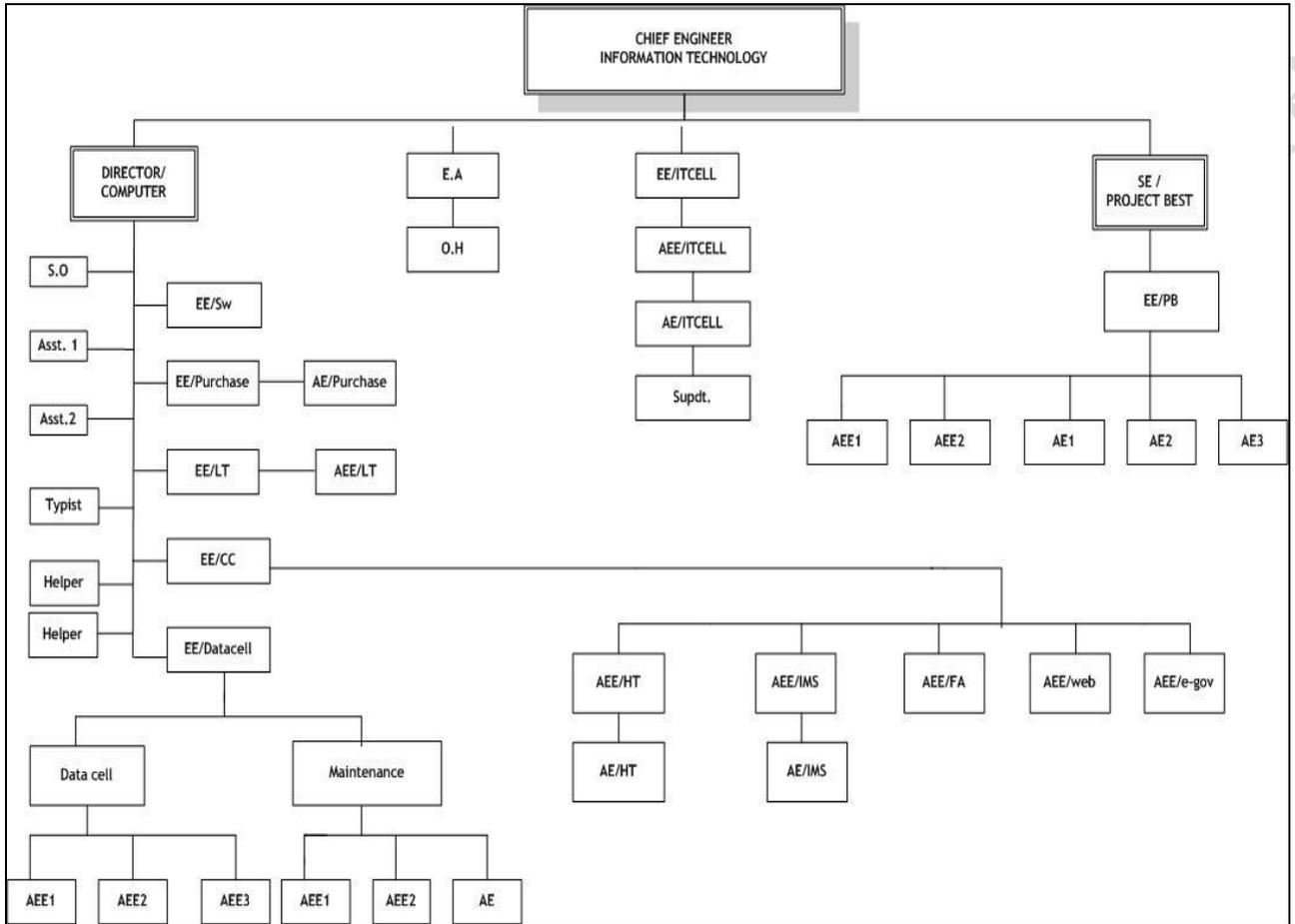
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IT Organisation Structure



Bid Evaluation

The evaluation of technical offer/scores will be done as per the guidelines and criteria given in the RFP.

- There will be single IT implementation agency for all R APDRP Towns across TNEB.
- TNEB reserves the right to withdraw or modify any part of RFP till the award of contract.
- Fair pricing principles will be followed and TNEB reserve the right to disqualify any bidder if any malpractice by bidder is observed.
- During the course of evaluation of technical bid, TNEB wants mandatorily to verify the availability of various functionalities mentioned by the bidder in Appendix B through a live demo. The price bid of the technically qualified



bidder will be considered for opening provided the above live demo is satisfactory.

Timely Execution

The execution within the stipulated time is a pre-requisite to convert the amount sanctioned by MoP from loan to grant and ITIA would be required to strictly adhere to the project execution timelines.

- The bidder is expected to complete the pilot implementation within 12 months from the date of award of contract by the utility.
- The bidder is expected to complete the enterprise-wide implementation for all the other identified project areas with-in 18 (eighteen) calendar months, from the date of award of contract by the utility.

Elaboration on Appendices

Appendix D

The Appendix D provides the Supplier response format

- General Guidelines to the bidders
- Technical proposal
- Financial proposal
- Check list

Appendix F

Appendix F provides the Geographical and administrative information of all the project areas under the scheme.

Appendix G

Appendix G provides the list of offices for WAN connectivity.

Appendix H

The Appendix H provides information on review of current IT systems.

As TNEB is already implemented GIS consumer indexing and asset mapping in Chennai city, the existing software should be upgraded and continued for the rest of the towns. Compatible add on modules which can work with the existing setup should be provided by the bidder.

Appendix I

For the data that needs to be converted to electronic form, the ITIA needs to take utility data available of last 5 years for the applications given in Appendix I

Appendix J

The Appendix J provides following information.



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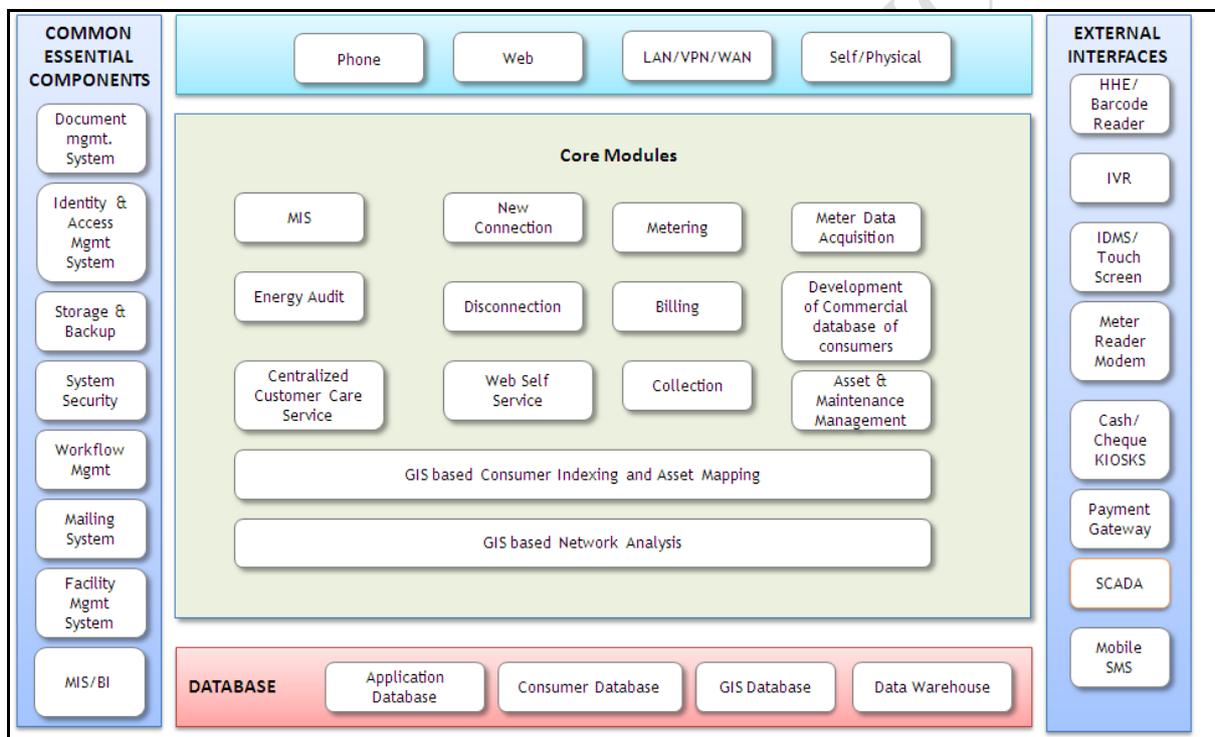
- Number of consumer and asset information
- Metering, consumer indexing and asset mapping information

Appendix L:

The Appendix L3 depicts minimum requirement .The final bill of material will be available post detailed site survey by the selected ITIA. BOM may increase or decrease by 20% subject to within a range of 10% of the value of the overall project cost.

SECTION III: PROPOSED IT ARCHITECTURE

General Architecture Principles



The figure broadly depicts the proposed application architecture for Tamil Nadu Electricity Board (TNEB). It covers all the necessary business functional modules suggested under R-APDRP program and will help the utility in achieving its business goal. The architecture caters to the needs of all the stakeholders - Consumers, Utility (TNEB), Regulatory bodies, GoI/MoP/State government and Third party service providers.

The stakeholders will access the application using single sign on through various mediums eg. Web/Portal, Phone (IVR), Mobile/PDS etc. The user will have the access to various applications depending on the access rights assigned to him.

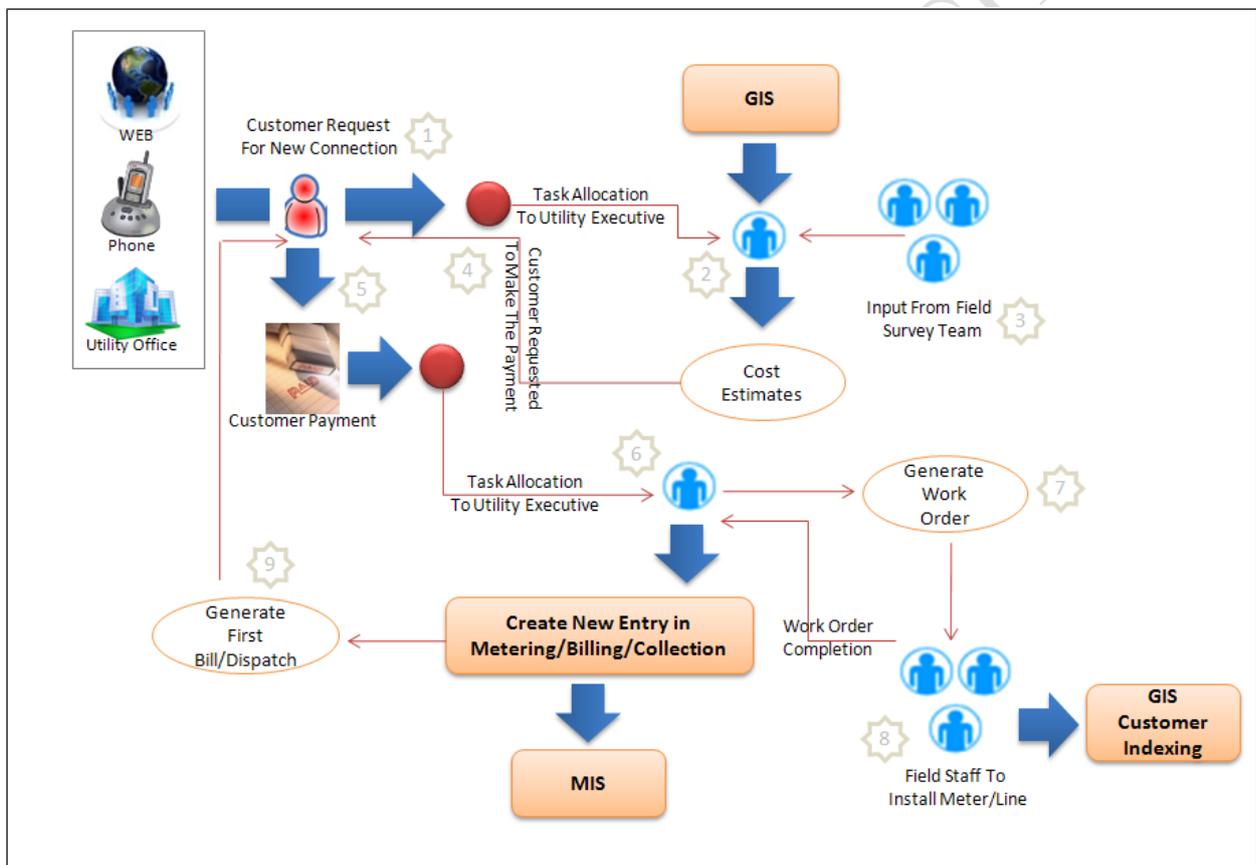


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Refer the SRS section G2 for the necessary specifications of various modules depicted in the application architecture above.

All the application modules will be integrated to each other and to any existing external devices/applications using Service Oriented Architecture (SOA). This will ensure seamless integration, reusability, plug-in new services, integrated work flows and offer business agility to the utility. Preferred middleware or integration layer will be open architecture based, have ability to audit and flexible to define and use business rules.

Workflow Management System



*Illustrative workflow diagram for New connection process

- ✓ New Connection involves two Workflow paths: 1-2-3-4-5 and 5-6-7-8-6-9-5.
- ✓ Involves GIS, Metering, Billing, Collection and MIS modules.

The aim of the proposed system is to automate the existing processes based on SOA architecture and make the system process driven. Hence a robust and a flexible workflow component will be needed. The workflow component should interact with various functional components/applications.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

The workflow component should be generic which connects each distinct modules and people to orchestrate a complete process. It should be capable enough to integrate the modules either to orchestrate or to send a notification.

The workflow component shall have the following characteristics:

1. The workflow component shall be able to interoperate with operating systems like Windows/Unix/ Solaris etc .The component shall seamlessly integrate with any or all the legacy and core application stack of TNEB.
2. It should allow for integration of Business Rules. It must adhere to the thin client open standards and must not require any proprietary software to be installed on client machines.
3. The workflow engine should support different types of routing mechanism - Sequential Routing, Parallel Routing, Rule-based routing, Ad-hoc routing.
4. The workflow component should able to model the complex business processes using drag and drop facilities.
5. It should provide the facility to define multi-level escalation procedures for meeting the defined SLA's.
6. The system should provide the facility to define exceptions at individual stages, which shall dynamically change the route on execution.
7. The workflow system should have the facility of e-mail notifications.
8. The workflow component should support XML messaging SOA architecture.
9. The workflow component should be scalable.
10. The workflow component shall have audit trail to maintain history of all transactions performed on the system
11. The workflow management system should support generation statistical and management reports.
12. The workflow component should support integration with LDAP for domain level authentication and single sign on.



SECTION IV: IMPORTANT CONSIDERATIONS

It is the responsibility of the System Integrator that the complete system as envisaged in this document is established and put into effective & satisfactory operation culminating into the successful completion of the project and conversion of the loan into grant by the PFC.

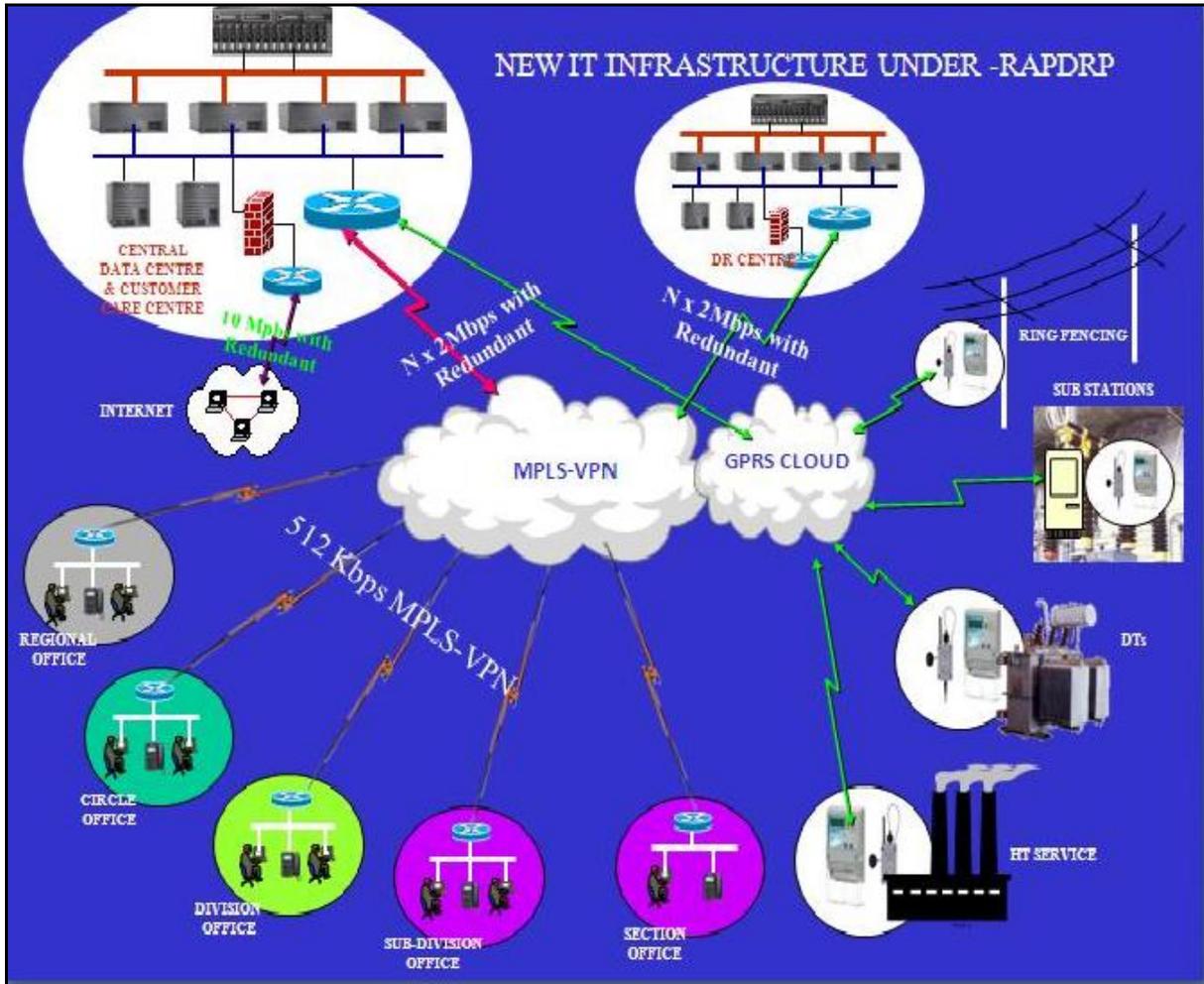
WAN Connectivity - Bandwidth Considerations

- Data Centre will be connected to Internet through a minimum 10 Mbps Internet gateway from two different ISP on active active cluster failover and load balancing mode. The Internet link should be terminated in a separate Internet router.
- Entire data center design including all relevant components, layouts etc would be supplied by vendor.
- Data Center will be connected to the MPLS-VPN core cloud with minimum of 20Mbps of MPLS-VPN link primary, 20 Mbps of MPLS-VPN link as secondary with load balancing and fail over mode. Out of which 10 Mbps will be dedicated connectivity between Data Center and Disaster Recovery Center for data replication. The connectivity shall work bandwidth allocation based on demand.
- WAN for all other offices including Circle, Division, Sub-Division, Section offices etc.-There will not be any connectivity in office hierarchy. All connectivity of distant locations will be directly to the Data centre. The proposed network has to be on a minimum 512Kbps MPLS-VPN connectivity. The various offices like circles, divisions, sub-division, section and various other offices as per the requirement of the utility will be connected to Data Centre via MPLS-VPN cloud of the Service Provider. The uplink WAN connection will terminate in a networking device, which will be connected to the switch via security equipment, which will ensure the fully secure enterprise VPN. There will no back-up connectivity requirement for these offices.

FMS Vendor Responsibility

The consumables like Print Cartridges, Headers, Fuser Assembly, Tape Media for backup etc will be considered in the scope of ITIA under FMS.





- DC to MPLS VPN cloud connectivity 20 Mbps
- DC to Internet gateway 10 Mbps primary and 10 Mbps secondary from a separate ISP
- DC to all Other offices 512 Kbps
- Customer Care Centre will be located in the same premises of Data Centre and will be connected through Local Area Network and terminated in Core Router of Data Centre.

Licensing Policy

Bidders should provide TNEB with Enterprise Wide (for entire TNEB, or sister companies within the state of Tamil Nadu) Licenses for unlimited users and unlimited time for all applications listed below.

Softwares
Asset Management
Maintenance Management
Meter Data Acquisition
Energy Audit
Meter, Billing and Collection

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New Connection & Disconnection Management System
Identity and Access Management system
Management Information System
Messaging Solutions
Document Management System
Customer Care Centre
GIS based integrated Network Analysis
GIS based Consumer Indexing and asset mapping
Databases

Rights to Software

The TNEB's and Supplier's rights and obligations with respect to Software's are as follows:

- TNEB will have sole & exclusive right on the design/architecture/technical/functional specification of the software's and test case.
- The TNEB will have exclusive deployment rights i.e. it may use the software in any of its offices or provide licenses to its sister organization(s) and modify or/and develop it further.
- The vendor will not part the design/architecture/technical/functional specification used in the bespoke s/w development to any third party or shall not use the same for other organization(s) without written permission from the TNEB.
- The ITIA should provide the source code of the implemented solution pertaining to the customization done for various application(s) to utility's IT team.
- Utility's IT team must be trained on the tools used to develop these customized business process applications

Other Important considerations

- a. All tax implications need to be considered by the bidder while submitting the bid.
- b. ITIA is expected to use load balancing for optimum utilization of available bandwidth at each location.
- c. A Dash Board displaying the important MIS parameters which will ticker in automatic scroll mode. This ticker data will be customized as per the requirement of the utility and is expected to provide continuous on line monitoring. These important MIS parameters can be System outage / downtime feeder wise, Energy balancing at sub station, Daily peak loads feeder / transformer wise, Peak Load of the Station, Bus bar profile, Daily Log sheets & any other forms / reports as



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required by the Utility etc.(LCD panel will be provided by the utility in later date, the ITIA has to integrate with the dash board displaying facility in MIS module)

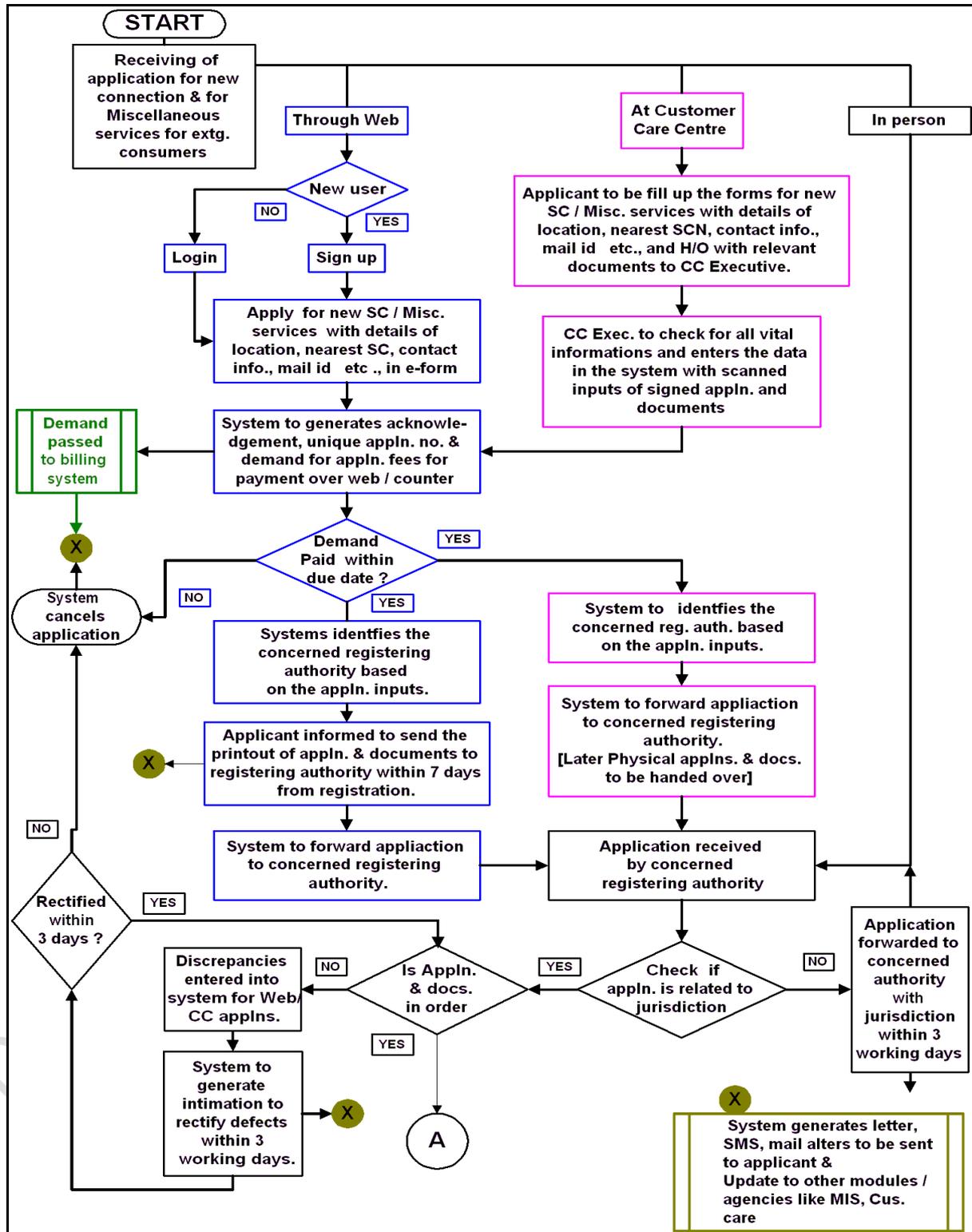
- d. On signing in to the system every end user should be reported with a pop-up/ alerts about all the pending tasks pertaining to the user from the various applications in his account. These pending tasks can be about reminders, appointments, other unfinished tasks etc.(This facility shall be integrated with Identity and Access Management system module)



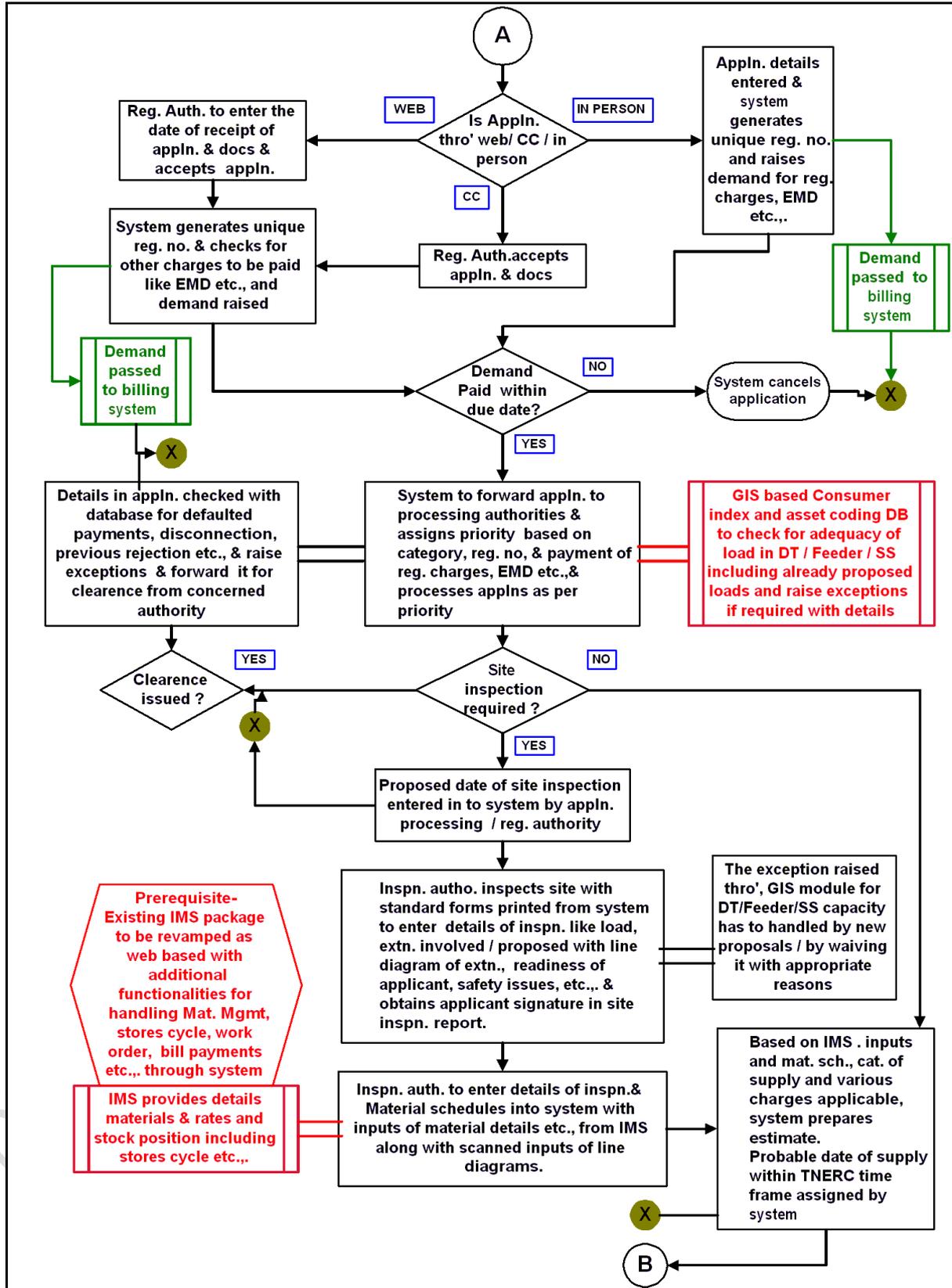
SECTION IV: ILLUSTRATIVE HIGH LEVEL PROCESSES

*All the following processes are for illustrative purpose only.

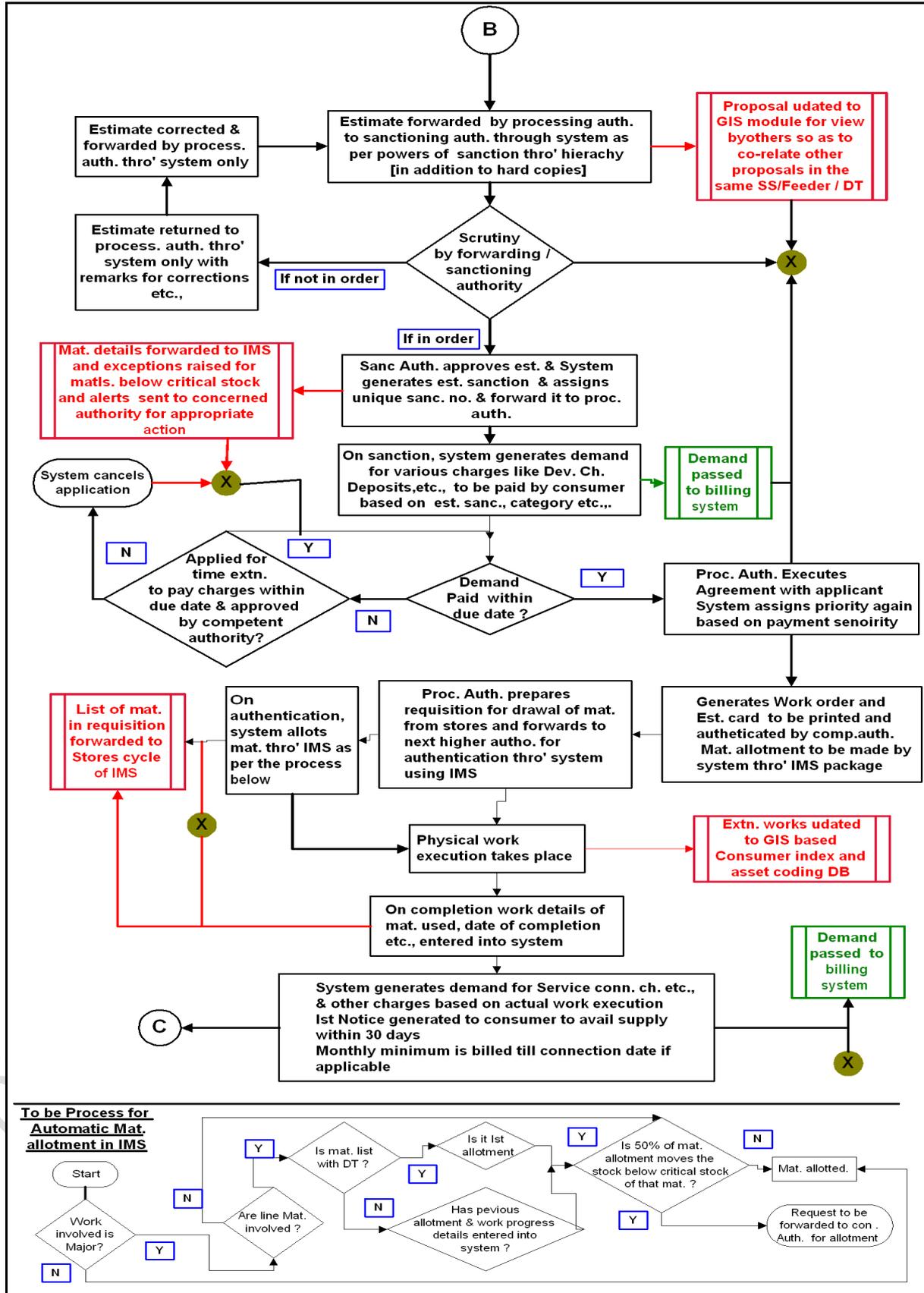
New Connection Processes



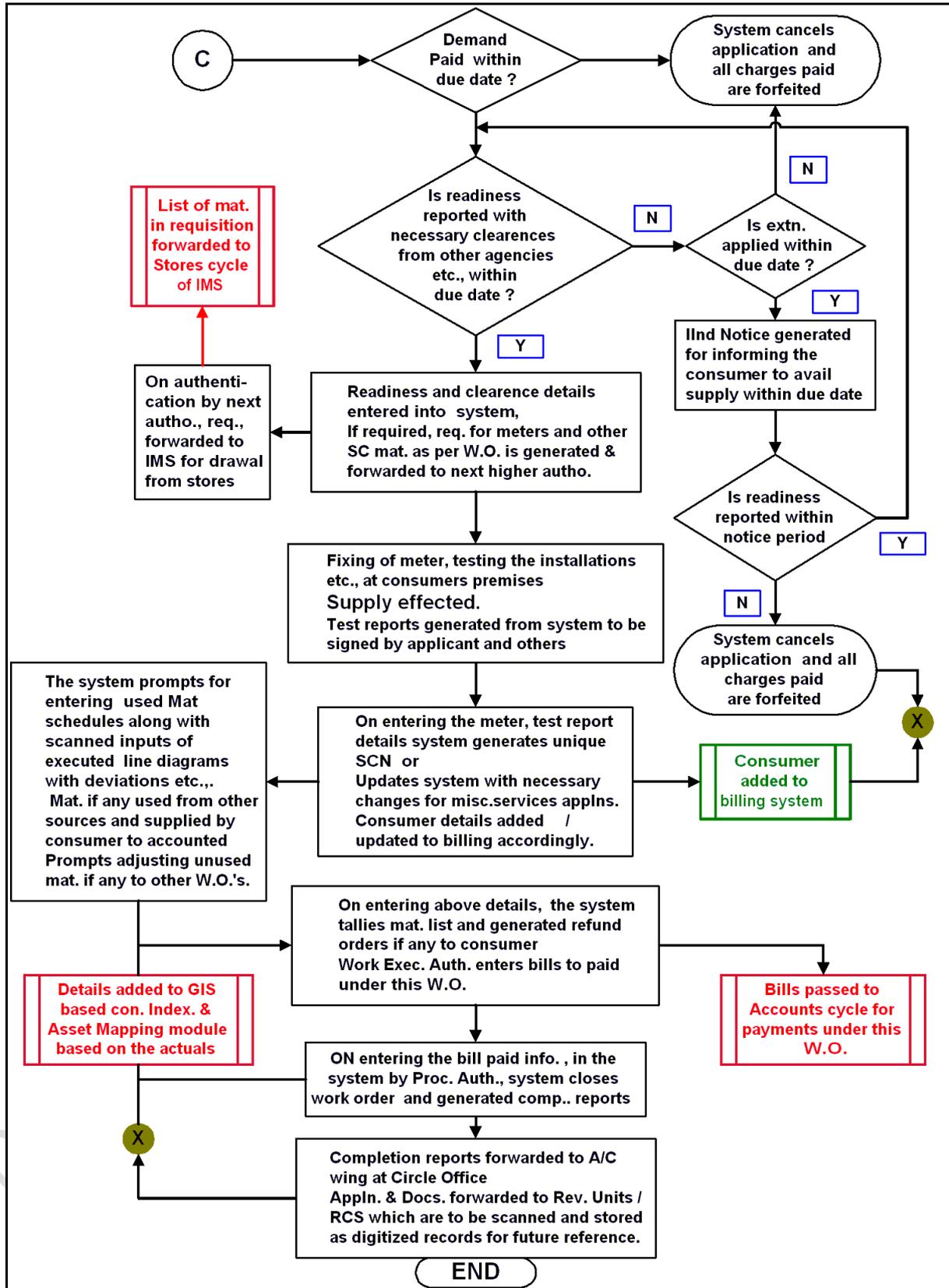
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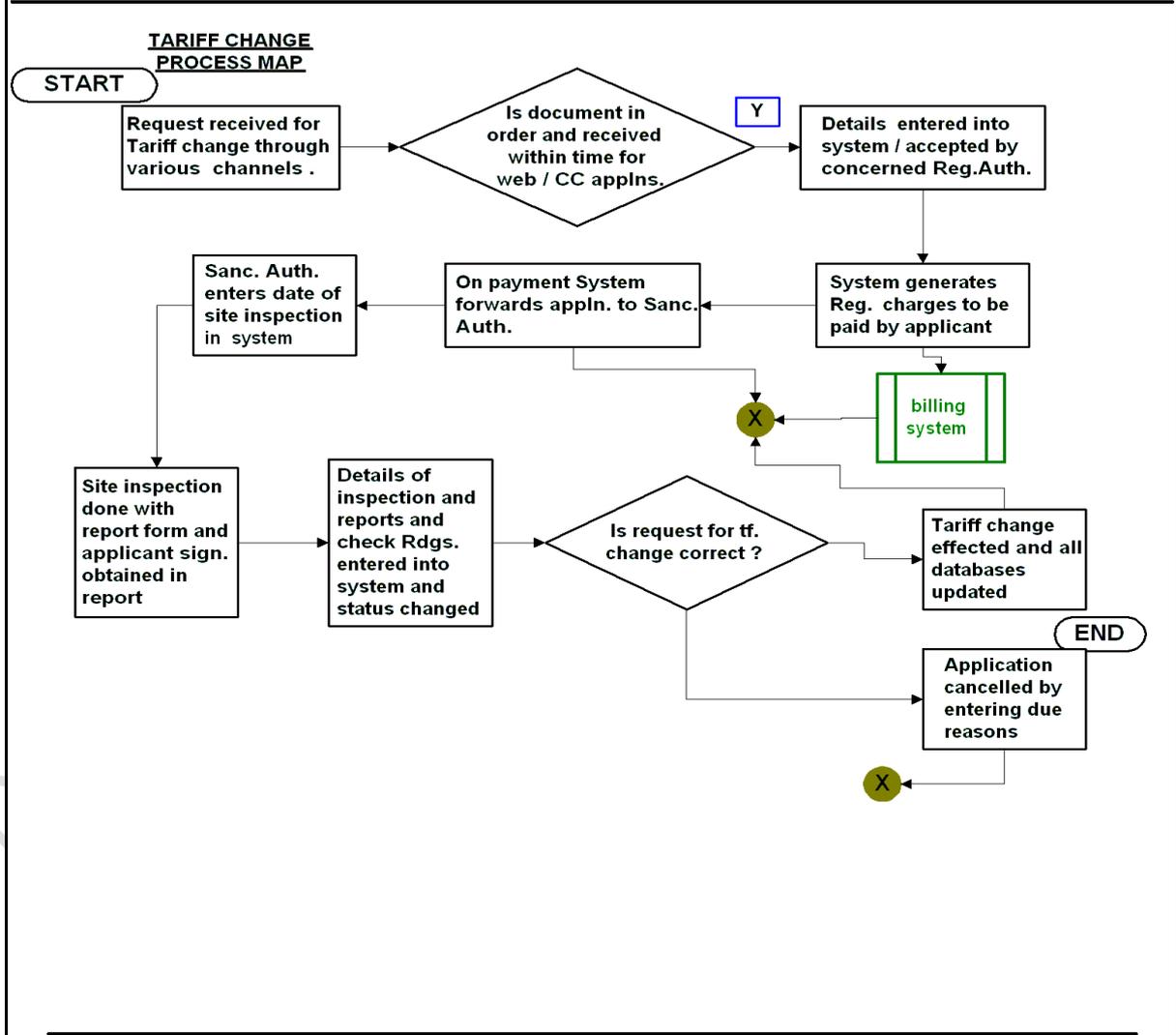
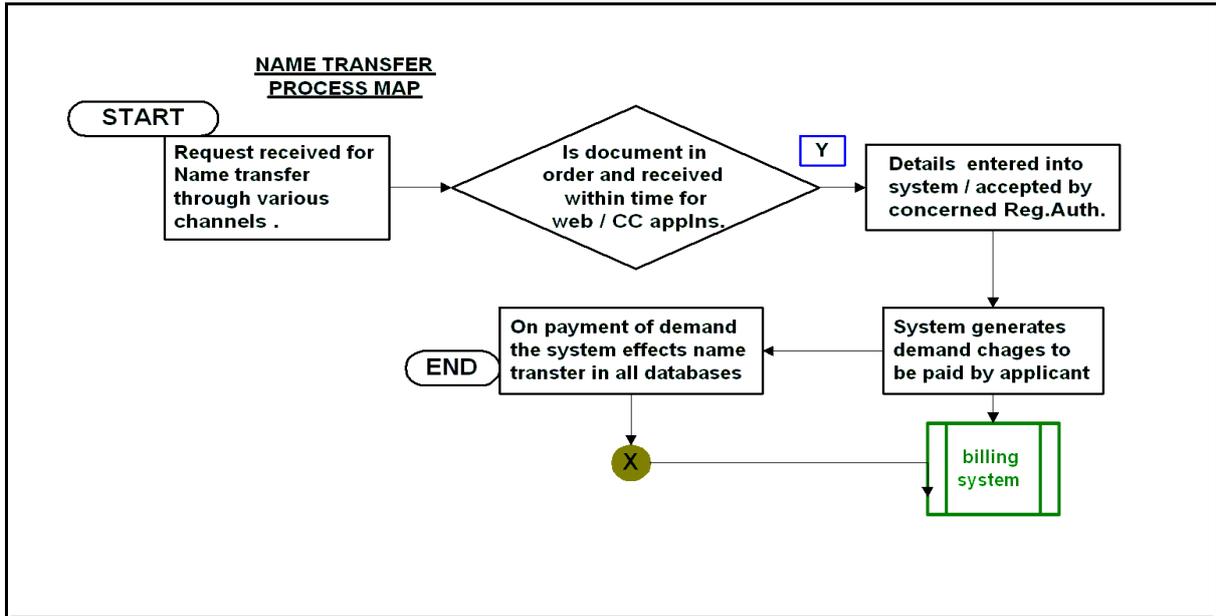
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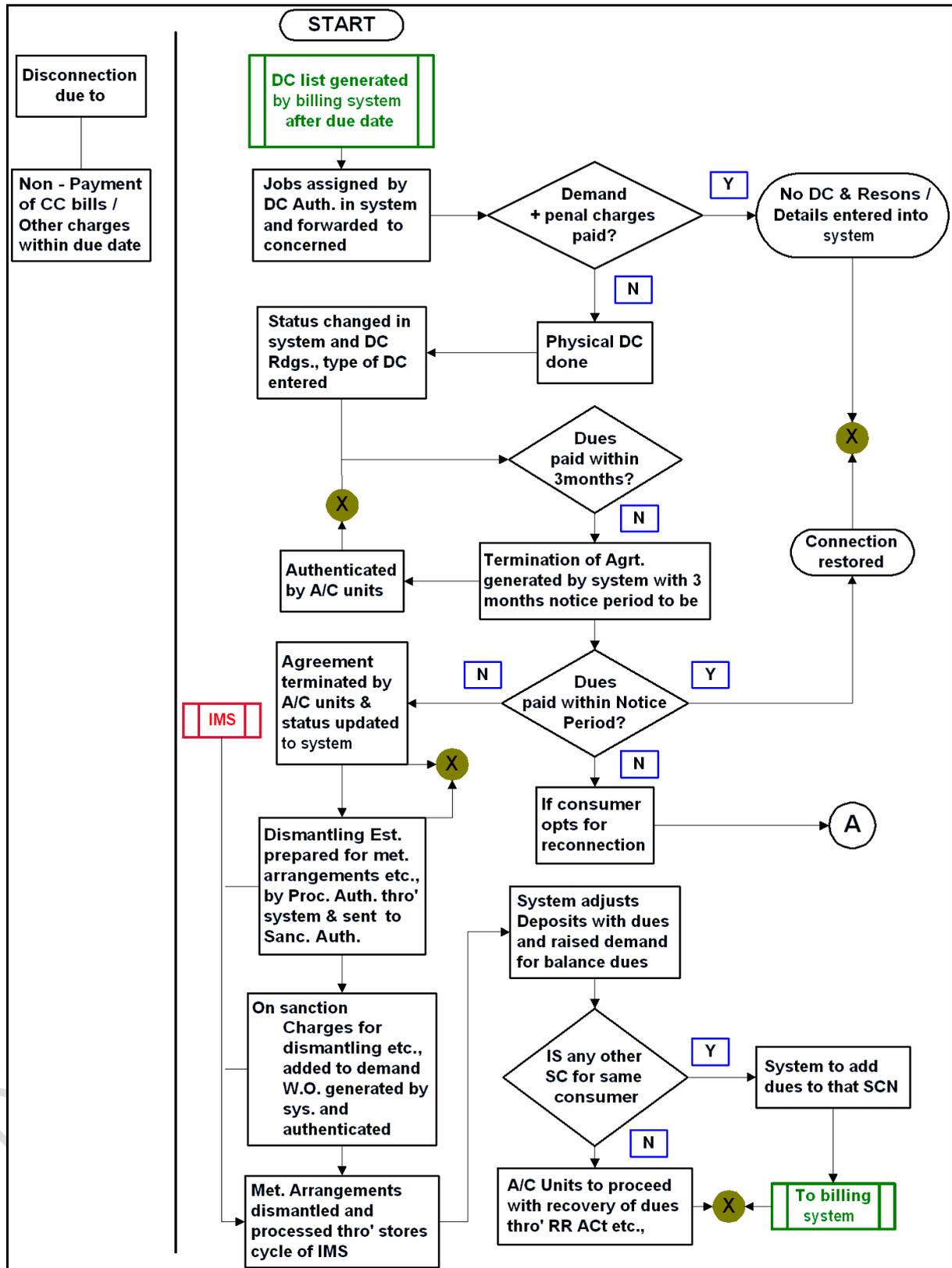
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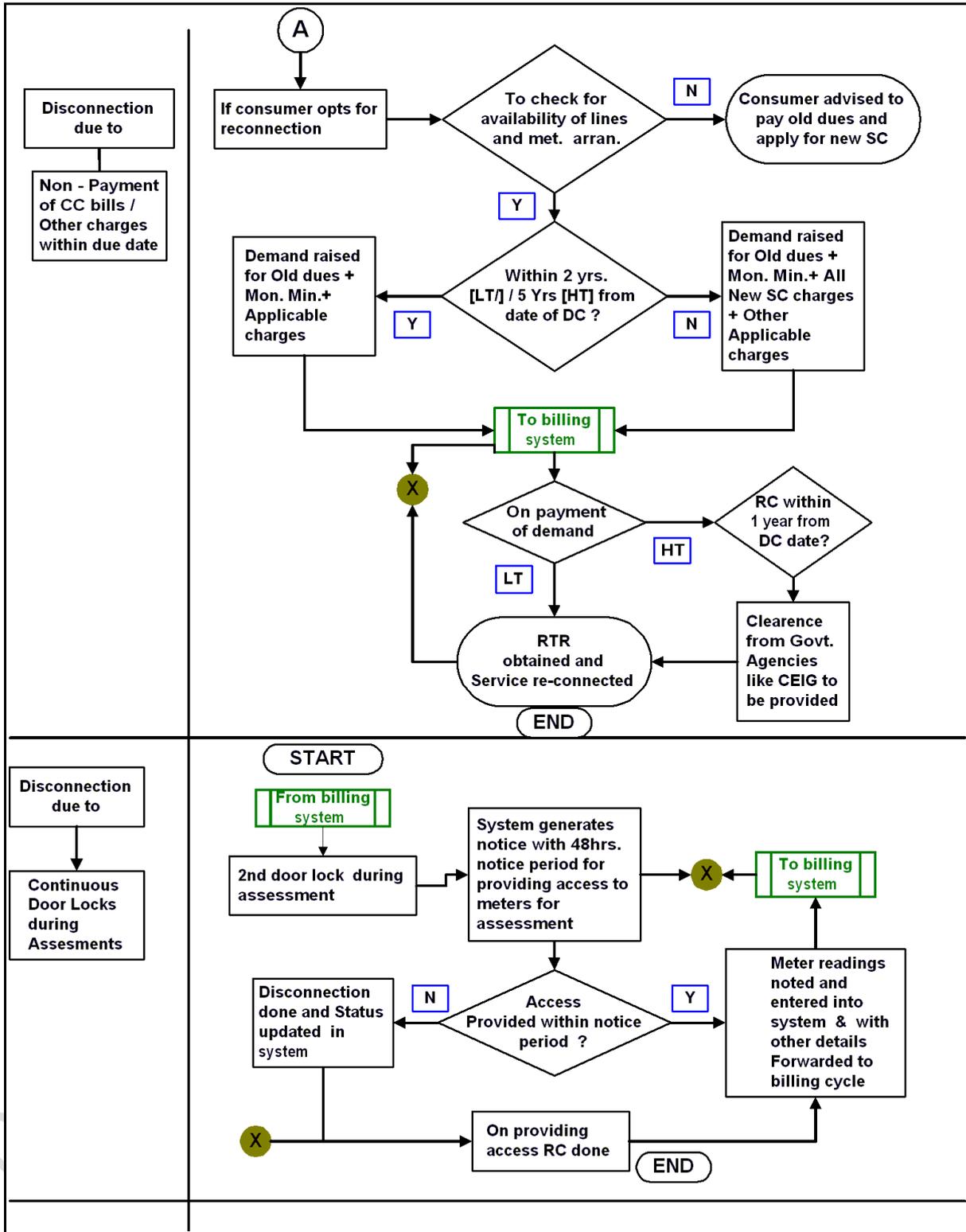
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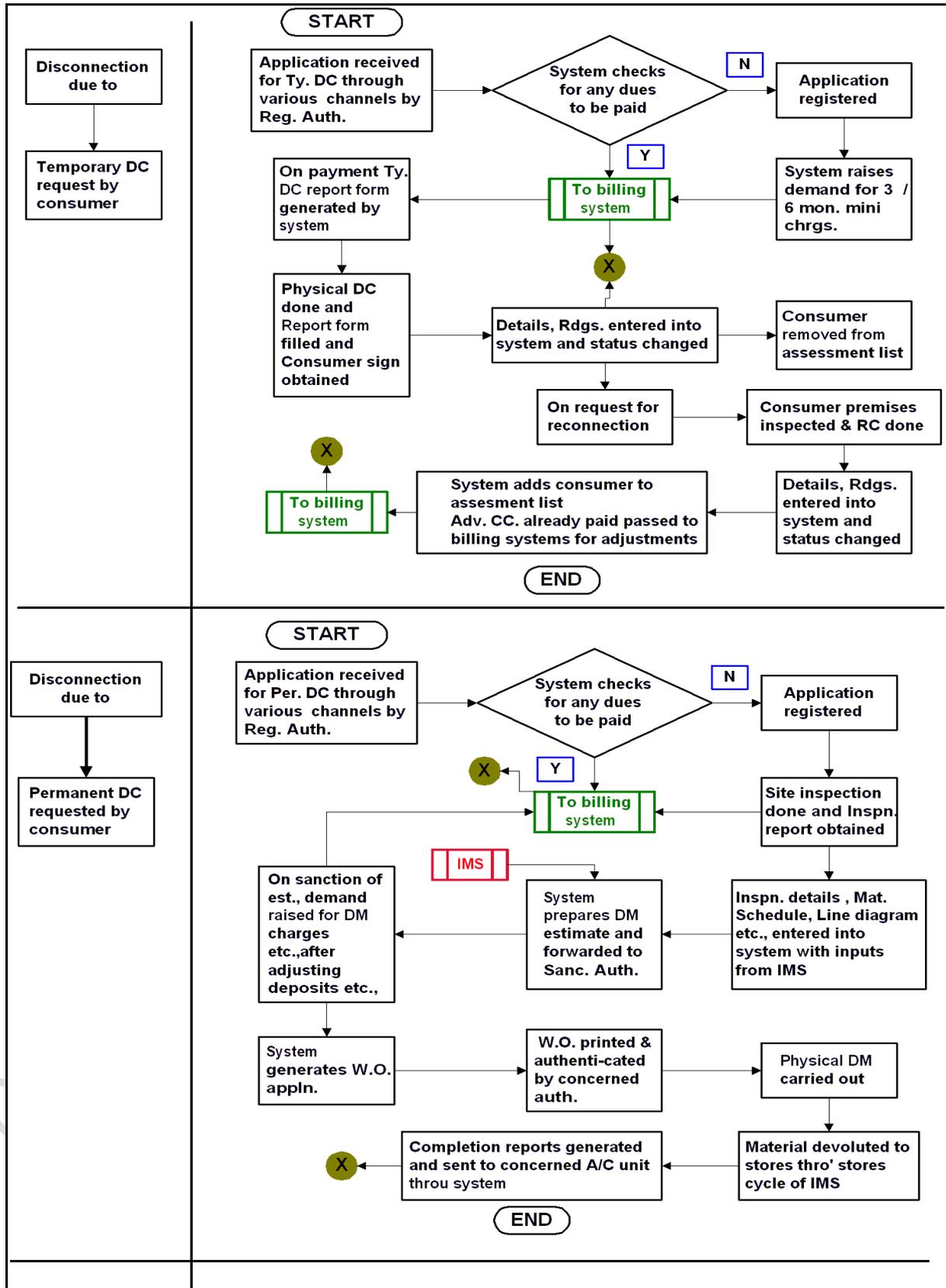
Disconnection Process



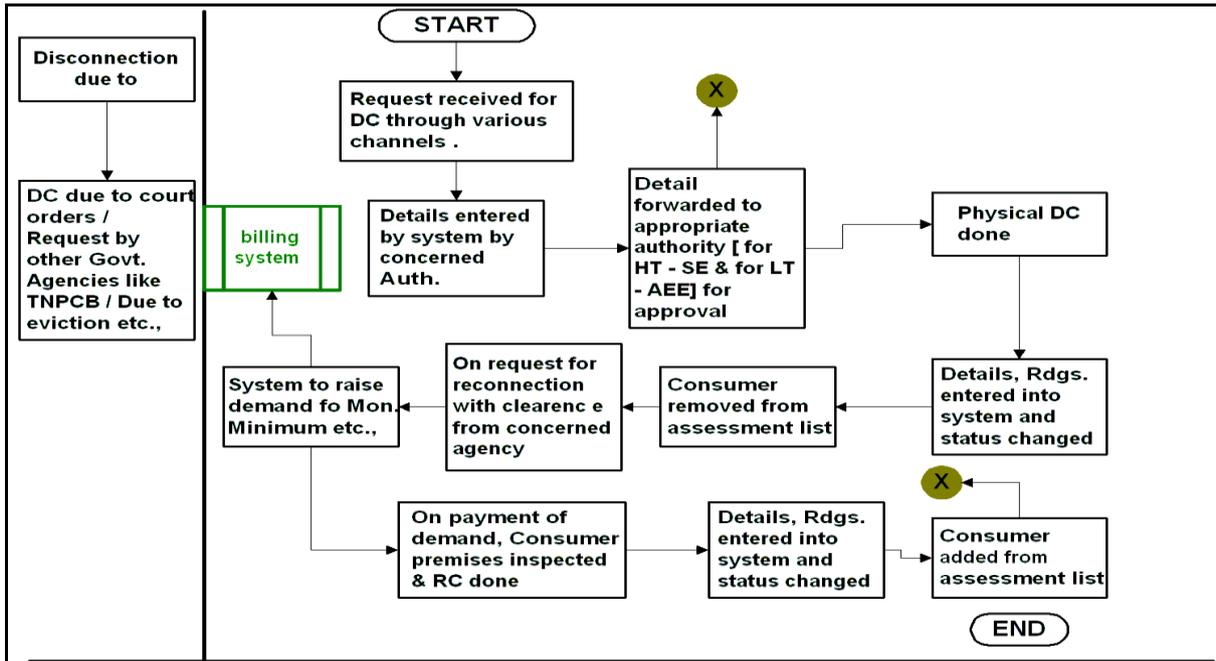
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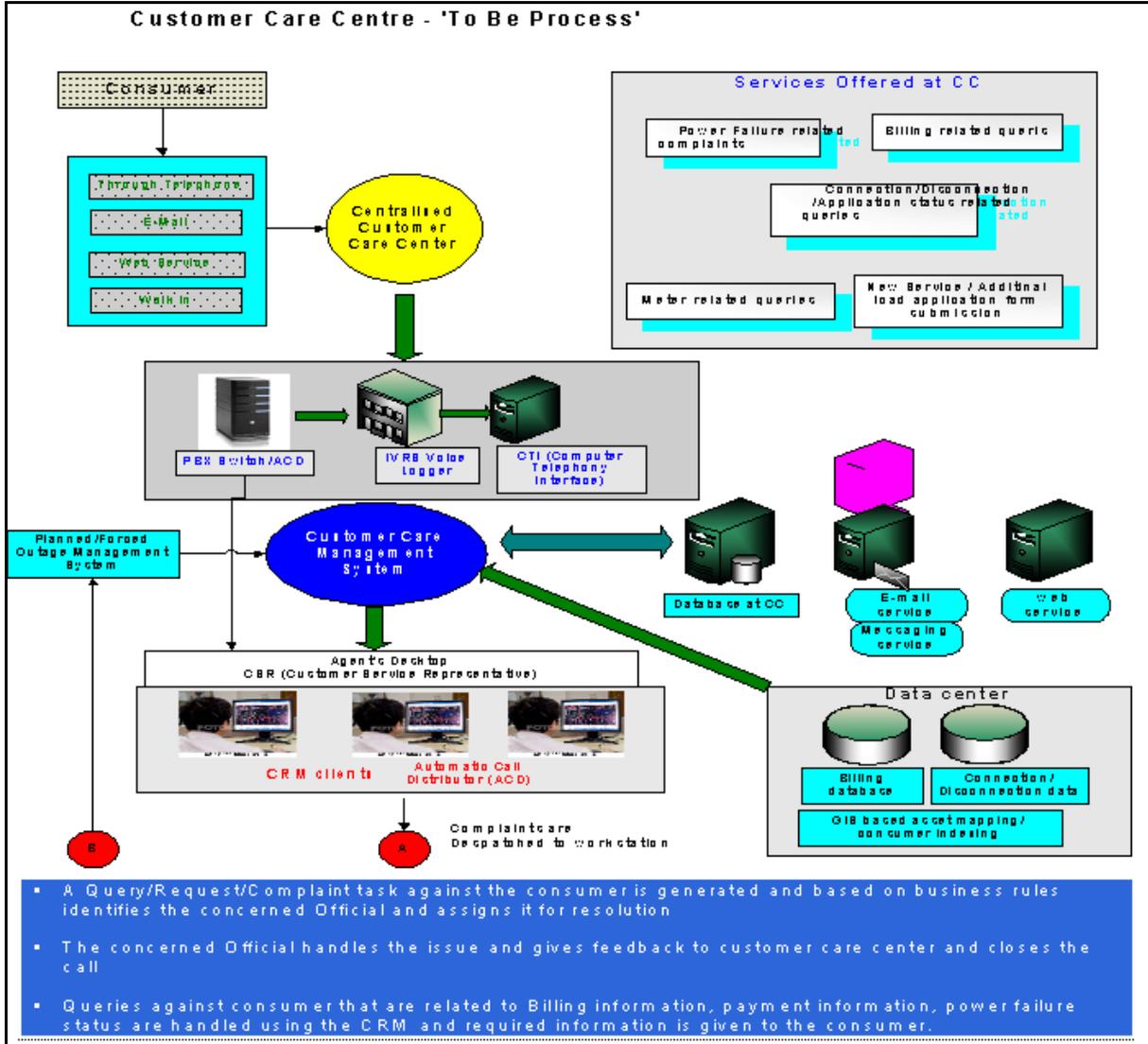
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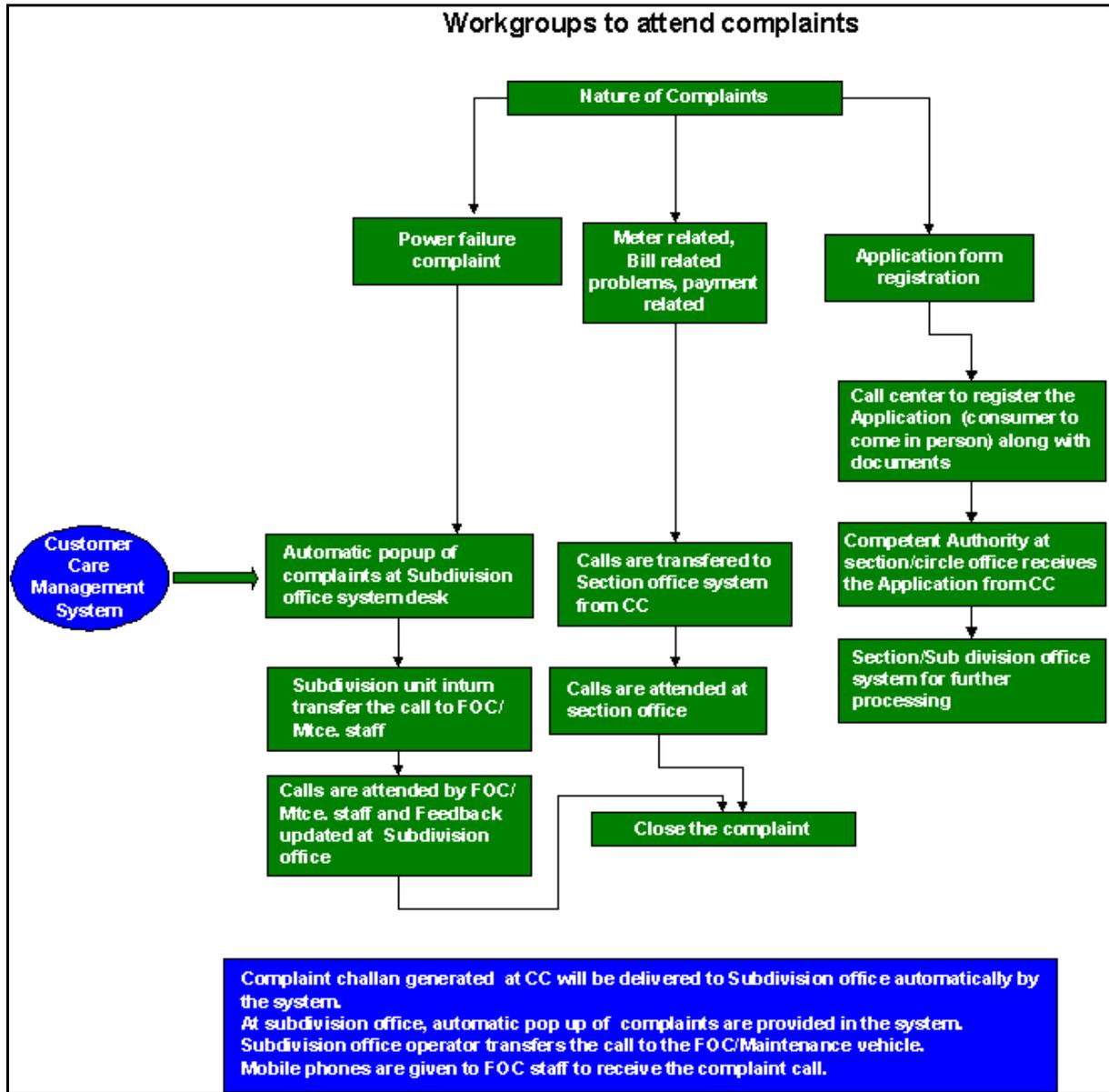


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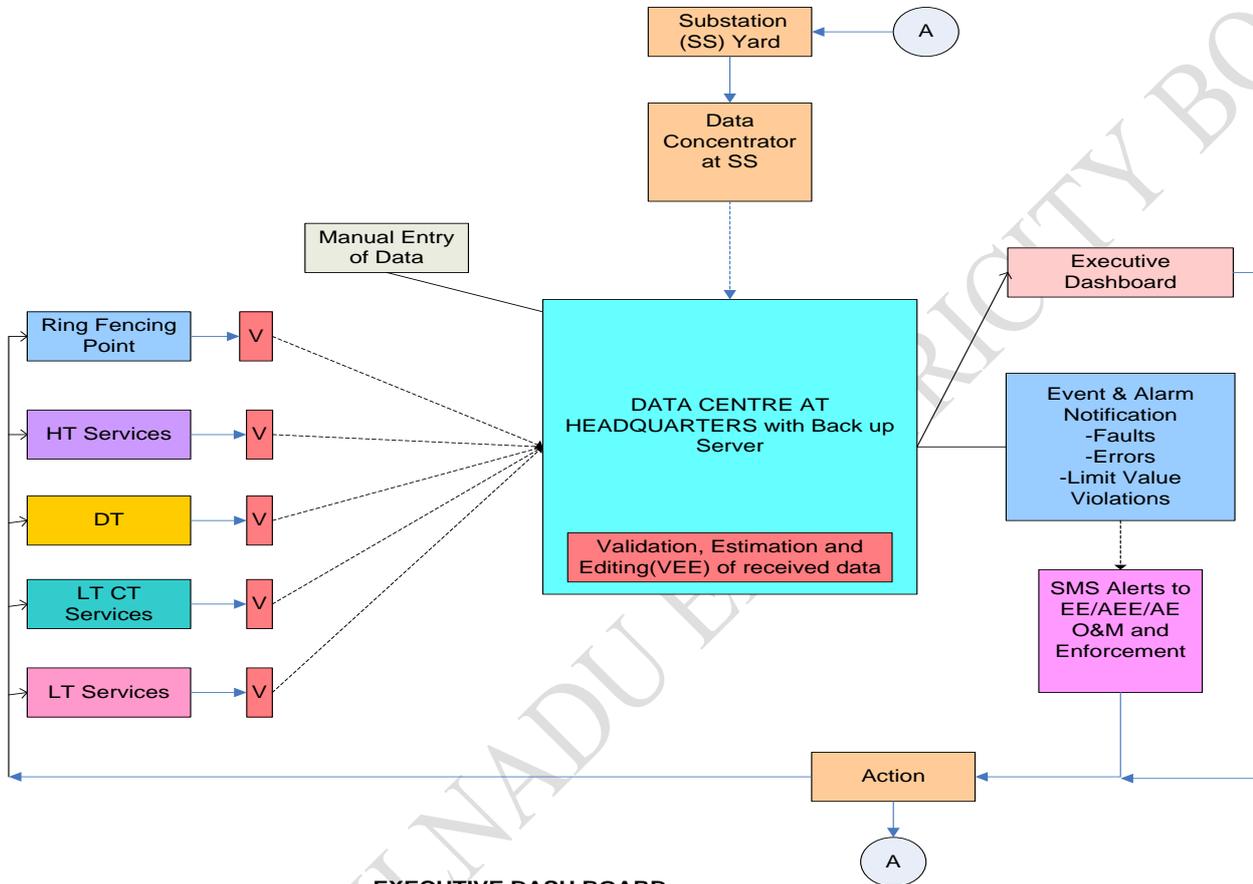
Customer Care Center





Meter Data Acquisition System

“ TO BE “ PROCESS MAP FOR METER DATA ACQUISITION

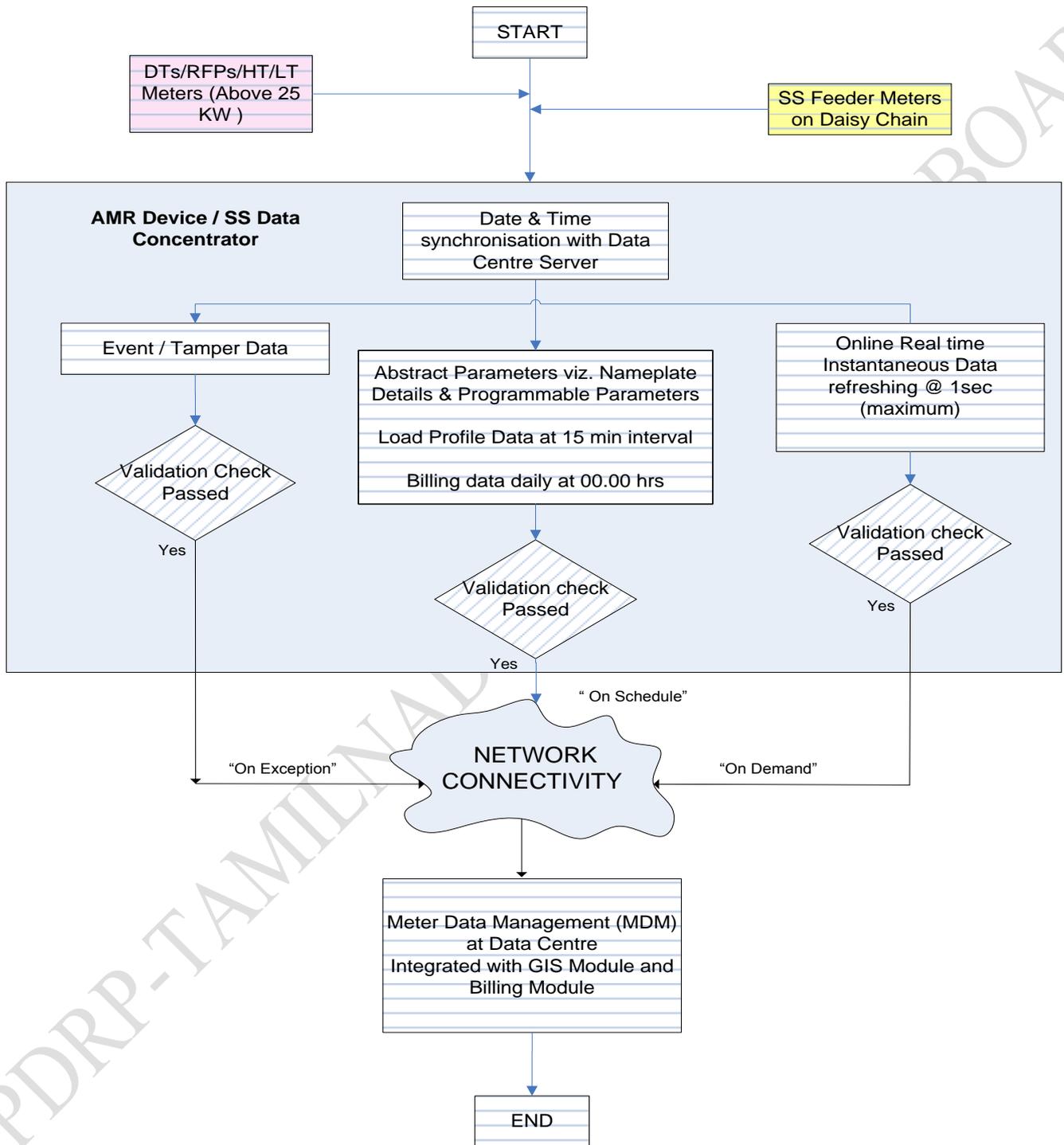


EXECUTIVE DASH BOARD

- Selective monitoring of summarized data
- Highlighting of key performance indicators
- Energy Balance at Different Network Levels
- Monitoring of Losses at various voltage levels
- Load survey analysis display
- Peak load monitoring
- Monitoring of Performance factors
- DT Load Management
- Feeder Load Management
- Navigation from one level of Network Hierarchy to another



Meter Data Acquisition Process

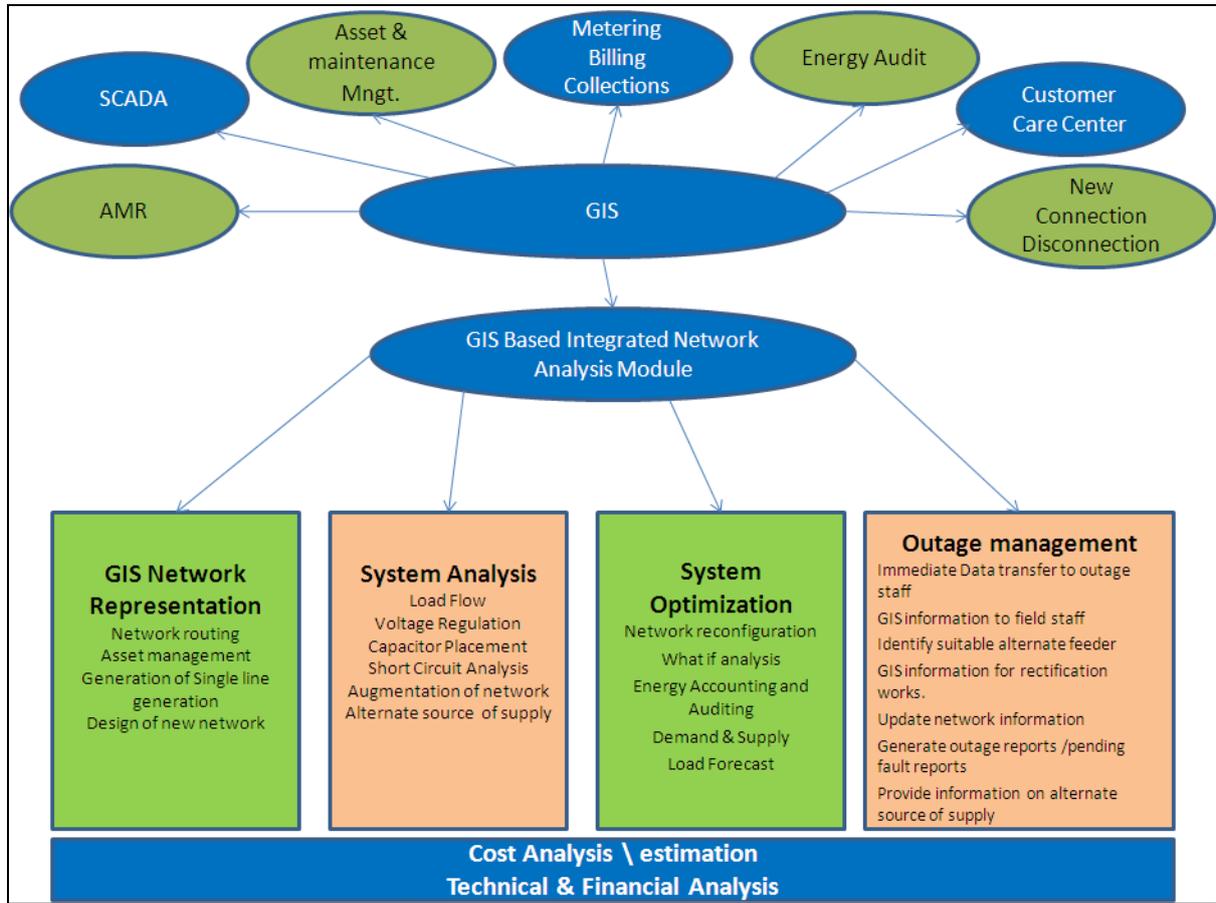


DATA TRANSFER SCHEDULE

- HT & LT Consumers – Hourly
- SS DCU & RFPs - Daily
- DT Meters - Daily



GIS Applications



CALENDAR OF EVENTS

EVENT	DATE	TIME
Begin Sale of RFP Document	07.10.2009	14.00 Hrs.
Pre-Bid Conference	21.10.2009	11.00 Hrs.
End Sale of RFP Document	29.10.2009	14.00 Hrs.
Deadline for submission	30.10.2009	14.00 Hrs.
RFP Opening	30.10.2009	14.30 Hrs.



Section II. Instructions to Bidders Table of Contents

A. GENERAL	4
1. Scope of Bid	4
2. Source of Funds	4
3. Corrupt Practices	4
4. Eligible Bidders	5
5. Eligible Goods and Related Services	7
B. CONTENTS OF BIDDING DOCUMENT	8
6. Sections of the Bidding Document	8
7. Clarification of Bidding Document	8
8. Amendment of Bidding Document	9
C. PREPARATION OF BIDS	9
9. Cost of Bidding	9
10. Language of Bid	9
11. Documents Comprising the Bid	9
12. Bid Submission Sheets and Price Schedules	10
13. Alternative Bids	11
14. Bid Prices and Discounts	11
15. Currencies of Bid	12
16. Documents Establishing the Eligibility of the Bidder	12
17. Documents Establishing the Conformity of the Goods and Related Services to the Bidding Document	12
18. Documents Establishing the Qualifications of the Bidder	12
19. Period of Validity of Bids	12
20. Bid Security	13
21. Format and Signing of Bid	13



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

D.	SUBMISSION AND OPENING OF BIDS	14
22.	Sealing and Marking of Bids	14
23.	Deadline for Submission of Bids	15
24.	Late Bids	15
25.	Withdrawal, Substitution, and Modification of Bids	15
26.	Bid Opening	15
E.	EVALUATION AND COMPARISON OF BIDS	17
27.	Confidentiality	17
28.	Clarification of Bids	17
29.	Responsiveness of Technical Proposal	18
30.	Non conformities, Errors, and Omissions	18
31.	Preliminary Examination of Bids	19
32.	Examination of Terms and Conditions; Technical Evaluation	20
33.	Margin of Preference	20
34.	Evaluation of Bids	20
35.	Comparison of Bids	21
36.	Post-qualification of the Bidder	21
37.	Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids	21
F.	AWARD OF CONTRACT	21
38.	Award Criteria	21
39.	Purchaser's Right to Vary Quantities at Time of Award	21
40.	Notification of Award	21
41.	Signing of Contract	22
42.	Performance Security	22
43.	Local Conditions	22
G.	INTERPRETATION	22



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

44. Interpretation of the SRS and the RFP document

22



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

A. General	
1. Scope of Bid	1.1 In support of the Invitation for Bids indicated in the Bid Data Sheet (BDS), the Purchaser, as indicated in the BDS, issues this Bidding Document for the supply of Goods and Related Services incidental thereto as specified in the Scope of Work at Section VI. The name and identification number of the International Competitive Bidding (ICB) are provided in the BDS.
2. Source of Funds	2.1 The Purchaser has received sanction from Nodal Agency (Power Finance Corporation Limited (PFC) under the aegis of Ministry of Power (MoP), Government of India (GoI)) under Part-A of R-APDRP towards the implementation cost of the project named in the BDS (hereinafter called “funds”). The GoI has agreed to convert the sanctioned loan into grant after successful completion of project and meeting the guidelines of R-APDRP. The Purchaser intends to apply a portion of funds to eligible payments under the contract for which this bidding document is issued. 2.2 Payments made under the Contract shall be in accordance with the terms and conditions of the financing agreement between the Purchaser and the Nodal Agency (hereinafter called the Loan Agreement), and will be subject in all respects to the terms and conditions of that Agreement. No party other than the Purchaser shall derive any rights from the Loan Agreement or have any claim to the funds.
3. Corrupt Practices	3.1 Purchaser requires bidders to observe the highest standard of ethics during the procurement and execution of such contracts. (a) The following definitions apply: <ul style="list-style-type: none">• “Corrupt practice” means the offering, giving receiving, or soliciting, directly or indirectly, of any thing of value to influence the action of any party in the procurement process or the execution of a contract;• “Fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;• “collusive practices” means a scheme or arrangement between two or more bidders, with or without the knowledge of the Purchaser, designed to influence the action of any party in a procurement process or the execution of a contract;• “coercive practices” means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>(b) Purchaser will reject a proposal for the award of Contract if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract</p> <p>(c) the Nodal Agency will declare a firm ineligible, either indefinitely or for a stated period of time, for awarding a R-APDRP funded contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a RAPDRP funded contract.</p> <p>3.2 In continuance of ITB clause 3.1 above, the Nodal Agency will cancel the portion of the fund allocated to a contract for goods, works or services if it at any time determines that corrupt or fraudulent practices were engaged in by representatives of the purchaser or a beneficiary of the fund, during the procurement or the execution of that contract, without the Purchaser having taken timely and appropriate remedial action satisfactory to the Nodal Agency.</p> <p>3.3 Any communication between the bidder and the purchaser related to matters of alleged fraud or corruption must be made in writing.</p> <p>By signing the contract, the bidder shall represent that it is either the owner of the Intellectual Property Rights (IPR) in the hardware, software or materials offered, or that it has proper authorization and/or license to offer them from the owner of such rights. For the purpose of this clause, IPR shall be defined in the GCC Clause 17. Willful misrepresentation of these facts shall be considered a fraudulent practice subject to the provisions of Clauses 3.1 to 3.3 above, without prejudice to other remedies that the Purchaser may take.</p>
	<p>Furthermore, Bidders shall also note the provision stated in Sub-Clause 2 and Sub-Clause 33.1.1 (ii) of the General Conditions of Contract.</p>
<p>4. Eligible Bidders</p>	<p>4.1 Bidders empanelled as System Integrator (SI) and categorized by Nodal Agency shall be eligible to bid in conformance to the requisite category as mentioned in BDS</p> <p>(a) SI shall have flexibility to subcontract Meter Data Acquisition Solution Provider (MDASP) services, as per requirement. In case SI decides to subcontract Meter Data Acquisition Solution Provider services, the Meter Data Acquisition Solution Provider shall only be selected from the empanelled list of MDASPs. The SI shall necessarily subcontract other ITIA roles of GIS Solution Provider (GSP) and Network Solution Provider (NSP) from the empanelled list of GSP and MDASP.</p> <p>(b) The SI (Lead member in case of a consortium for SI Role) shall have the authority to conduct all businesses for and on behalf of any and all the parties during the bidding process and, in the event the SI is awarded the Contract, during contract execution.</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>(c) The SI (Lead member in case of a consortium for SI Role) shall be wholly responsible for execution of the contract.</p> <p>(d) In case of non-performance (slippage in milestones, scope & quality of work, discipline, etc. as assessed by utility) and/or bankruptcy of any of the subcontracted ITIA roles (GSP, NSP, MDASP), the SI (Lead member in case of a consortium for SI Role) shall take necessary remedial action through addition/change of subcontractor for the concerned ITIA role. The addition/change of subcontractor for concerned ITIA role (GSP, NSP, MDASP) shall be with necessary prior approval of the utility and shall be at no additional cost to the project cost already quoted at the time of bidding for the project. The addition/change of subcontractor for concerned ITIA role (GSP, NSP, MDASP) shall only be from the list of empanelled members for ITIA roles</p> <p>(e) In case of exceptional circumstance of continued non-performance, even subsequent to exercising of remedies provided under clause 4.1.d above, as assessed and reported by the utility, the empanelment is liable to be cancelled by the Nodal Agency.</p>
	<p>4.2 Bidder or the Lead Member in case of a Consortium shall not have a conflict of interest with one or more parties in this bidding process. Participation by Bidder(s) with a conflict of interest situation will result in the disqualification of all Bids in which it is involved. Purchaser considers a conflict of interest to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations, and that such conflict of interest may contribute to or constitute a prohibited corrupt practice. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if, including but not limited to:</p> <p>(a) receive or have received any direct or indirect subsidy from any of them; or</p> <p>(b) have the same legal representative for purposes of this Bid; or</p> <p>(c) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process; or</p> <p>(d) a Bidder (the SI/Lead member in case of a consortium for SI Role) participates in more than one bid in this bidding process. Participation by a Bidder or Lead Member in more than one Bid will result in the disqualification of all Bids in which it is involved. However, this does not limit the inclusion of the same product (commercially available hardware, software or network product manufactured or</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>produced by the firm), as well as purely incidental services such as installation, configuration, routine training and ongoing maintenance/support, in more than one bid; or</p> <p>(e) a Bidder or any of its sub-contractors or consortium member(s) participated as a consultant in the preparation of the design or technical specifications of the goods and services that are the subject of the bid.</p> <p>(f) if the SI (single bidder or consortium) or any of its sub-contractors is/are part of IT Consultant appointed by that utility</p> <p>(g) if the SI or any of its sub-contractors get associated as Consultant / Advisor / Third party independent evaluating agency with any of the agencies taking part in the bid process of the concerned utility under R-APDRP</p> <p>(h) For any given project area, the IT consultant and the IT implementation agency cannot be the same. An IT Consultant and IT implementation agency (SI and/or its subcontractors if any) agency may be considered to be in a conflict of interest with one or more parties in this process if they have controlling shareholders in common;</p> <p>(i) Participation by Bidder(s) with a conflict of interest situation will result in the disqualification. Further more, the Nodal Agency reserves the right to debar/bar bidders from all other process of empanelment including cancellation of existing panels under R-APDRP.</p> <p>Except SI, empanelled NSP, GSP and MDASP may provide sub-contractual services to more than one bidder for the same bid.</p>
	<p>4.3 Government-owned enterprises who have been empanelled shall be eligible</p>
	<p>4.4 Bidders shall provide such evidence of their continued eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.</p>
<p>5. Eligible Goods and Related Services</p>	<p>5.1 For the purpose of this Clause, the term “Goods” includes hardware, software, networking equipments and cables; and “Related services” includes services such as insurance, transportation, associated documentation, installation, customization, integration, field survey, testing and commissioning, training, technical support, maintenance, repair and other necessary services to be provided by the selected bidder and necessary for successful implementation of the project as specified in the contract.</p>
	<p>5.2 In case Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer’s Authorization using the form included in Section V, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods.</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

B. Contents of Bidding Document	
6. Sections of the Bidding Document	<p>6.1 The Bidding Document consists of the sections as indicated below and should be read in conjunction with any Addenda issued in accordance with ITB Clause 8.</p> <ul style="list-style-type: none"> • Section I. Preface • Section II. Instructions to Bidders (ITB) • Section III. Bid Data Sheet (BDS) • Section IV. Eligibility Criteria • Section V. Bidding Forms • Section VI. Scope of Work • Section VII. General Conditions of Contract (GCC) • Section VIII. Special Conditions of Contract (SCC) • Section IX. Contract Forms • Appendix A to O
	6.2 The Invitation for Bids issued by the Purchaser is a part of the Bidding Document.
	6.3 The Purchaser is not responsible for the completeness of the Bidding Document and its addenda, if they were not obtained directly from the Purchaser.
	6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the Bid.
7. Clarification of Bidding Document	<p>7.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the Purchaser in writing at the Purchaser's address indicated in the BDS. The Purchaser shall forward copies of its response to all Bidders who have acquired the Bidding Document directly from it, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Document as a result of a clarification, it shall do so following the procedure under ITB Clause 8 and Sub-Clause 23.2.</p> <p>7.2 The Purchaser will organize a pre-bid conference at the time and place indicated in BDS. The purpose of the conference will be to clarify issues and answer queries only in the prescribed format that the bidders might have. Bidders are requested to submit the queries in writing to reach the purchaser not later than 5 days before the conference. Queries and responses shall be communicated in accordance with ITB Clause 7.1. Any modifications to the Bidding document listed in ITB Clause 6.1 which may become necessary as a result of pre-bid conference shall be made by the Purchaser exclusively by issuing Addendum and not through the clarifications of the pre-bid conference. Please note below points in regard to pre-bid</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>The participants for the pre-bid conference have to carry a duly filled and signed authorization form which is enclosed in Section V-Bidding Forms. The same has to be signed by the contact mentioned person as mentioned in the empanelment list. A maximum of two persons are allowed per ITIA.</p> <p>7.3 No questions will be entertained beyond Pre-Bid</p>
8. Amendment of Bidding Document	<p>8.1 At any time prior to the deadline for submission of the Bids or the award of the contract, the Purchaser may amend the Bidding Document by issuing addenda.</p> <p>8.2 The Purchaser, at its discretion for any reason whether at its own initiative or in response to a clarification requested by a bidder may add, modify or remove any element of the Goods (including hardware, software, networking, etc) or any component of Related Service entirely or any part thereof from the bid document till the time of award of contract. All bidders will be notified of any such change.</p> <p>8.3 In order to provide prospective Bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser may, at its discretion, extend the last date for the receipt of Bids.</p>
	8.4 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document directly from the Purchaser.
	8.5 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Purchaser may, at its discretion, extend the deadline for the submission of the Bids, pursuant to ITB Sub-Clause 23.2.
	C. Preparation of Bids
9. Cost of Bidding	9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
10. Language of Bid	10.1 The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Purchaser, shall be written in the English. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Bid, such translation shall govern.
11. Documents Comprising the Bid	11.1 The Bid shall comprise two envelopes submitted simultaneously, one containing the Technical Proposal and the other the Price Proposal, enclosed together in an outer single envelope.
	11.2 Initially, only the Technical Proposals opened at the address, date and time specified in ITB Sub-Clause 26.1. The Price Proposals remain sealed and held in custody by the Purchaser. The Technical



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	Proposals shall be evaluated by the Purchaser as per Evaluation Methodology mentioned in Appendix-E. No amendments or changes to the Technical Proposals are permitted. Bids with Technical Proposals which do not conform to the mandatory requirements (as specified in Appendix-A) will be termed as non-responsive and will not be evaluated further.
	11.3 Price Proposals of technically responsive Bids shall be opened in public at the date and time to be advised by the Purchaser. The Price Proposals shall be evaluated as per Evaluation Methodology mentioned in Appendix-E. 11.4 Contract shall be awarded to the Bidder whose Proposal (Technical and Financial) obtains the maximum score
	11.5 The Technical Proposal shall contain the following: <ul style="list-style-type: none"> (a) Technical Proposal Submission Sheet; (b) Bid Security, in accordance with ITB Clause 20; (c) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB Clause 21; (d) documentary evidence in accordance with ITB Clause 16 establishing the Bidder's eligibility to bid; (e) documentary evidence in accordance with ITB Clauses 17 and 29, that the Goods and Related Services conform to the Bidding Document; (f) documentary evidence in accordance with ITB Clause 18 establishing the Bidder's qualifications to perform the contract if its Bid is accepted; and (g) any other document required in the BDS.
	11.6 The Price Proposal shall contain the following: <ul style="list-style-type: none"> (a) Price Proposal Submission Sheet and the applicable Price Schedules, in accordance with ITB Clauses 12, 14, and 15; (b) any other document required in the BDS.
12. Bid Submission Sheets and Price Schedules	12.1 The Bidder shall submit the Technical Proposal and the Price Proposal using the appropriate Submission Sheets provided in Section V, Bidding Forms and Supplier response format, Appendix D. These forms must be completed without any alterations to their format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
	12.2 The Bidder shall submit, as part of the Price Proposal, the Price Schedules for Goods and Related Services, using the forms furnished in Section V, Bidding Forms and Supplier response format, Appendix D. 12.3 The Bidders should take note of following points while submitting the Price Proposal:-



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>(a) Price Proposal should clearly indicate the price to be charged without any qualifications whatsoever and should include all taxes (sales, service, etc.), duties (excise & customs, etc), octroi, fees, levies, works contract tax, Entry tax and other charges as may be applicable, to be paid pre- or post-delivery or to be deducted by the purchaser at source, in relation to the Goods and Related Services. Such taxes, duties, cess, charges etc, if not explicitly mentioned in the Price bid tables in Appendix D.3, but applicable under law, should be included in the Quote under “Any other levies” column.</p> <p>(b) The Purchaser will provide Central sales tax Form C, whenever applicable.</p> <p>(c) The Bidder will provide Tax rates assumed for the calculation at the time of proposal for each item in notes to respective table in Appendix D.3.</p> <p>(d) Please refer to GCC Clause [13.2] and the SCC for Price adjustments due to change in Tax rates (including local taxes), duties, levies, cess, charges etc.</p>
13. Alternative Bids	13.1 Alternative (alternate technology/architecture/design/functionality or proposals with multiple options) bids shall be rejected.
14. Bid Prices and Discounts	14.1 The prices quoted by the Bidder in the Price Proposal Submission Sheet and in the Price Proposal shall conform to the requirements specified below.
	<p>14.2 All items in the Appendix L must be listed and priced separately in the Price Schedules. If an item listed in Price Schedule is not priced, their prices shall be assumed to be included by the bidder in the prices of other items.</p> <p>14.3 If an item is not listed in the Price Schedule, it shall be assumed not to be included in the Bid. In such event, if the bid is otherwise substantially responsive, Bid Price shall be adjusted during evaluation of Price Proposals, for comparison purposes only, to reflect the price of the missing or non-conforming item or component. The price of the missing or non-conforming item or component for this purpose shall be the highest of the prices quoted by the other bidders for such missing item or component.</p>
	14.4 The terms EXW, CIF, CIP, and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by The International Chamber of Commerce, at the date of the Invitation for Bids or as specified in the BDS.
	14.5 Prices quoted by the Bidder must be firm and final and shall remain constant throughout the period of the contract and shall not be subject to any upward modifications, except as specified in the GCC Clause 14.2
	14.6 The bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted prices. Discount of any type, indicated separately, will not be taken into account for



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	evaluation purpose. However, in the event of such an offer, without considering the separate discount, is found to be the lowest, the Purchaser shall avail such discount at the time of award of contract.
15. Currencies of Bid	15.1 Bidders may express their bid price in Indian Rupees only.
16. Documents Establishing the Eligibility of the Bidder	16.1 To establish their eligibility in accordance with ITB Clause 4, Bidders shall: (a) complete the eligibility declarations in the Bid Submission Sheet, included in Section V, Bidding Forms
17. Documents Establishing the Conformity of the Goods and Related Services to the Bidding Document	17.1 To establish the conformity of the Goods and Related Services to the Bidding Document, the Bidder shall furnish as part of its Technical Proposal the documentary evidence against Goods and related Services provided in Appendix L. 17.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to those requirements, and if applicable, a statement of deviations and exceptions to the provisions of Appendix D; 17.3 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Scope of Work, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Scope of Work
18. Documents Establishing the Qualifications of the Bidder	18.1 To establish its qualifications to perform the Contract, the Bidder shall submit as part of its Technical Proposal the evidence indicated for each qualification criteria specified in Section IV, Eligibility Criteria. However, only those bidders which have been empanelled by Nodal Agency shall be eligible to bid.
19. Period of Validity of Bids	19.1 Bids shall remain valid for the period of 90 days after the bid submission deadline date prescribed by the Purchaser. A Bid valid for a shorter period shall be rejected by the Purchaser as non responsive.
	19.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. The Bid Security furnished in accordance with ITB Clause 20, it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

20. Bid Security	20.1 The Bidder shall furnish as part of its Technical Proposal, a Bid Security in original form and in the amount and currency specified in the BDS
	20.2 The Bid Security shall be in the form of a bank guarantee from a Scheduled Bank as notified by Reserve Bank of India.. In case of a bank guarantee, the Bid Security shall be submitted using the Bid Security Form included in the Bidding Forms at Section V. The form must include the complete name of the Bidder. The Bid Security shall be valid for sixty (60) days beyond the end of the validity period of the bid. This shall also apply if the period for bid validity is extended
	20.3 Any Bid not accompanied by a substantially responsive Bid Security in accordance with ITB Sub-Clause 20.2, shall be rejected by the Purchaser as non responsive.
	20.4 The Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the signing of the Contract with the successful Bidder pursuant to ITB Clause 41 and 42
	20.5 The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has furnished the required Performance Security and signed the Contract.
	20.6 The Bid Security may be forfeited: <ul style="list-style-type: none"> (a) if a Bidder withdraws its Bid during the period of bid validity as specified in ITB Clause 19.1, except as provided in ITB Sub-Clause 19.2 or 25 ; or (b) if the successful Bidder fails to : <ul style="list-style-type: none"> • sign the Contract in accordance with ITB Clause 41; or • furnish a Performance Security in accordance with ITB Clause 42; or • accept the correction of its Bid Price pursuant to ITB Sub-Clause 30.5 • If the bidder is found to have submitted false particulars / fake documents; or • If the IT Implementation Agency (SI and its sub-contractors) refuses to execute the job at his agreed scope/quoted rates, after the utilities issue the letter of intent (LoI) • incidents of manipulation of rates by cartelization
	20.7 The Bid Security must be in the name of the system integrator (Lead Member in case of consortium for system integrator role)
21. Format and Signing of Bid	21.1 The Bidder shall prepare one original of the Technical Proposal and one original of the Price Proposal as described in ITB Clause 11 and clearly mark each “ORIGINAL - TECHNICAL PROPOSAL” and



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>“ORIGINAL - PRICE PROPOSAL”. In addition, the Bidder shall submit 4 (Four) copies of the Technical Proposal and the Price Proposal, and clearly mark them “COPY NO... - TECHNICAL PROPOSAL” and “COPY NO... - PRICE PROPOSAL”. In the event of any discrepancy between the original and the copies, the original shall prevail.</p>
	<p>21.2 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid, except for un-amended printed literature, shall be signed or initialled by the person signing the Bid. Response Formats duly filled along with supporting documents shall be page numbered and stitched, book bound as one volume. Each page of the bid (along with the supporting documents including CVs) should be signed by the authorised signatory. Spiral/Spico bound documents with end sealed may also be accepted. The documents submitted in any other way is liable to be rejected.</p>
	<p>21.3 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialled by the person signing the Bid.</p>
	<p>D. Submission and Opening of Bids</p>
22. Sealing and Marking of Bids	<p>22.1 The Bidder shall enclose the original of the Technical Proposal, the original of the Price Proposal, and each copy of the Technical Proposal and each copy of the Price Proposal, , in separate sealed envelopes, duly marking the envelopes as “ORIGINAL - TECHNICAL PROPOSAL”, “ORIGINAL - PRICE PROPOSAL” and “COPY NO... - TECHNICAL PROPOSAL” and “COPY NO... - PRICE PROPOSAL”, as appropriate. These envelopes containing the original and the copies shall then be enclosed in one single envelope.</p>
	<p>22.2 The inner and outer envelopes shall:</p> <ul style="list-style-type: none"> (a) bear the name and address of the Bidder; (b) be addressed to the Purchaser in accordance with ITB Sub-Clause 23.1; and (c) bear the specific identification of this bidding process indicated in the BDS.
	<p>22.3 The outer envelopes and the inner envelopes containing the Technical Proposals shall bear a warning not to open before the time and date for the opening of Technical Proposals, in accordance with ITB Sub-Clause 26.1.</p>
	<p>22.4 The inner envelopes containing the Price Proposals shall bear a warning not to open until advised by the Purchaser in accordance with ITB Sub-Clause 26.2.</p>
	<p>22.5 If all envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	opening and resultant disqualification of the bid.
23. Deadline for Submission of Bids	23.1 Bids must be received by the Purchaser no later than the date and time, and at the address indicated in the BDS. Please note that no extension in the timeframe for the bid submission will be granted.
	23.2 The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Document in accordance with ITB Clause 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
24. Late Bids	24.1 The Purchaser shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB Clause 23. Any Bid received by the Purchaser after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.
25. Withdrawal, Substitution, and Modification of Bids	25.1 A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written Notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB Sub-Clause 21.2. The corresponding substitution or modification of the bid must accompany the respective written notice. All Notices must be: <ul style="list-style-type: none"> (a) submitted in accordance with ITB Clauses 21 and 22 (except that Withdrawal Notices do not require copies), and in addition, the respective inner and outer envelopes shall be clearly marked “Withdrawal,” “Substitution,” “Modification”; and (b) Received by the Purchaser prior to the deadline prescribed for submission of bids, in accordance with ITB Clause 23.
	25.2 Bids requested to be withdrawn in accordance with ITB Sub-Clause 25.1 shall be returned unopened to the Bidders.
	25.3 No Bid shall be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in ITB Clause 19.1 or any extension thereof.
26. Bid Opening	26.1 The Purchaser shall conduct the opening of Technical Proposals in the presence of Bidders’ representatives who choose to attend, at the address, date and time specified in the BDS.
	26.2 The Price Proposals will remain unopened and will be held in custody of the Purchaser until the time of opening of the Price Proposals. The Purchaser shall advise the responsive bidders in writing about the date, time, and location of the opening of Price Proposals.
	26.3 First, envelopes marked “WITHDRAWAL” shall be opened, read out, and recorded, and the envelope containing the corresponding Bid shall not be opened, but returned to the Bidder. No Bid shall be withdrawn unless the corresponding Withdrawal Notice contains a valid authorization to request the withdrawal and is read out and



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	recorded at bid opening.
	<p>26.4 Next, outer envelopes marked “SUBSTITUTION” shall be opened. The inner envelopes containing the Substitution Technical Proposal and/or Substitution Price Proposal shall be exchanged for the corresponding envelopes being substituted, which are to be returned to the Bidder unopened. Only the Substitution Technical Proposal, if any, shall be opened, read out, and recorded. Substitution Price Proposals will remain unopened in accordance with ITB Sub-Clause 26.2. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.</p>
	<p>26.5 Next, outer envelopes marked “MODIFICATION” shall be opened. No Technical Proposal and/or Price Proposal shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of Technical Proposals. Only the Technical Proposals, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Price Proposals, both Original as well as Modification, will remain unopened in accordance with ITB Sub-Clause 26.2.</p>
	<p>26.6 All other envelopes holding the Technical Proposals shall be opened one at a time, and the following read out and recorded :</p> <ul style="list-style-type: none">(a) the name of the Bidder;(b) whether there is a modification or substitution;(c) the presence of a Bid Security, if required; and(d) any other details as the Purchaser may consider appropriate. <p>Only Technical Proposals read out and recorded at bid opening shall be considered for evaluation. No Bid shall be rejected at the opening of Technical Proposals except for late bids in accordance with ITB Sub-Clause 24.1.</p>
	<p>26.7 The Purchaser shall prepare a record of the opening of Technical Proposals that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, modification; and the presence or absence of a Bid Security. The Bidders’ representatives who are present shall be requested to sign the record. The omission of a Bidder’s signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.</p>
	<p>26.8 On the basis of the evaluation of the Technical Proposals, the Purchaser will invite bidders who have submitted responsive Technical Proposals to attend the opening of the Price Proposals. The date, time, and location of the opening of Price Proposals will be advised in writing by the Purchaser. Bidders shall be given reasonable notice of the opening of Price Proposals.</p>
	<p>26.9 The Purchaser will notify Bidders in writing who have been rejected on the grounds of being non-responsive to the requirements of the</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	Bidding Document and return their Price Proposals unopened, before the opening of the price proposal.
	26.10 The Purchaser shall conduct the opening of Price Proposals of all Bidders who submitted responsive Technical Proposals, in the presence of Bidders' representatives who choose to attend at the address, date and time specified by the Purchaser. The Bidder's representatives who are present shall be requested to sign a register evidencing their attendance.
	26.11 All envelopes containing Price Proposals shall be opened one at a time and the following read out and recorded: <ul style="list-style-type: none"> (a) the name of the Bidder (b) whether there is a modification or substitution; (c) the Bid Prices,; and (d) any other details as the Purchaser may consider appropriate. Only Price Proposals, read out and recorded during the opening of Price Proposals shall be considered for evaluation. No Bid shall be rejected at the opening of Price Proposals.
	26.12 The Purchaser shall prepare a record of the opening of Price Proposals that shall include, as a minimum: the name of the Bidder, the Bid Price. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.
	E. Evaluation and Comparison of Bids
27. Confidentiality	27.1 Information relating to the examination, evaluation, comparison and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process.
	27.2 Any attempt by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post qualification of the Bids or Contract award decisions may result in the rejection of its Bid.
	27.3 Notwithstanding ITB Sub-Clause 27.2, from the time of opening the Technical Proposals to the time of Contract award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing. If the bidder or any of his subcontractors/consortium members meet the Purchaser's personnel, it will be considered as "coercive practices", and may result in rejection of the bid.
28. Clarification of Bids	28.1 To assist in the examination, evaluation, comparison and post-qualification of the Bids, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	response shall be in writing. No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the evaluation of the Price Proposals, in accordance with ITB Clause 30.
29. Responsiveness of Technical Proposal	29.1 The Purchaser's determination of the responsiveness of a Technical Proposal is to be based on the contents of the Technical Proposal itself.
	29.2 A responsive Technical Proposal is one that conforms to all the mandatory requirements, terms, conditions, and specifications of the Bidding Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that: <ul style="list-style-type: none"> (a) does not meet all the mandatory requirements (as specified in Appendix-A) (b) affects the scope, quality, or performance of the Goods and Related Services specified in the Contract; or (c) limits or is inconsistent with the Bidding Document, the Purchaser's rights or the Bidder's obligations under the Contract; or (d) if rectified would unfairly affect the competitive position of other Bidders presenting responsive Technical Proposals.
	29.3 If a Technical Proposal is not responsive to the Bidding Document, it shall be rejected by the Purchaser and shall not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.
30. Non conformities, Errors, and Omissions	30.1 Provided that a Technical Proposal is responsive, the Purchaser may waive any non-conformity or omission in the Bid that does not constitute a material deviation.
	30.2 Provided that a Technical Proposal is responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial, nonconformities or omissions in the Technical Proposal related to documentation requirements. Such omission shall not be related to any aspect of the Price Proposal of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
	30.3 Provided that a Technical Proposal is responsive, the Purchaser will rectify nonmaterial nonconformities or omissions. To this effect, the Bid Price shall be adjusted during evaluation of Price Proposals, for comparison purposes only, to reflect the price of the missing or non-conforming item or component. The adjustment shall be made using the method indicated in Section 13.2 of Section VII - GCC.
	30.4 Provided that the Technical Proposal is responsive, the Purchaser will correct arithmetical errors during evaluation of Price Proposals on the following basis:



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>(a) if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;</p> <p>(b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</p> <p>(c) if there is a discrepancy between words and figures, the amount in words shall prevail. However, where the amount expressed in words is related to an arithmetic error, the amount in figures shall prevail subject to (a) and (b) above.</p> <p>(d) if there is a discrepancy between percentage and figures related to various taxes or levies, the percentage shall prevail over figure mentioned. However, where the amount expressed in percentage is related to an arithmetic error, the amount in figures shall prevail subject to (a) and (b) above. It should also be noted that at time of payment against, the prevailing tax/levy rates will be used as on the date of approval of payment.</p> <p>(e) Except as provided in sub-clauses (a) to (c) herein above, the Purchaser shall reject the Price Proposal if the same contains any other computational or arithmetic discrepancy or error.</p>
	<p>30.5 If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited.</p>
<p>31. Preliminary Examination of Bids</p>	<p>31.1 The Purchaser shall examine the Technical Proposal to confirm that all documents and technical documentation requested in ITB Sub-Clause 11.5 have been provided, and to determine the completeness of each document submitted.</p>
	<p>31.2 The Purchaser shall confirm that the following documents and information have been provided in the Technical Proposal. If any of these documents or information is missing, the offer shall be rejected.</p> <p>(a) Technical Proposal Submission Sheet in accordance with ITB Sub-Clause 12.1;</p> <p>(b) written confirmation of authorization to commit the Bidder;</p> <p>(c) Bid Security; and</p> <p>(d) Manufacturer's Authorization, where applicable.</p>
	<p>31.3 Likewise, following the opening of Price Proposals, the Purchaser shall examine the Price Proposals to confirm that all documents and financial documentation requested in ITB Sub-Clause 11.6 have been</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	provided, and to determine the completeness of each document submitted.
	31.4 The Purchaser shall confirm that the following documents and information have been provided in the Price Proposal. If any of these documents or information is missing, the offer shall be rejected. <ul style="list-style-type: none"> (a) Price Proposal Submission Sheet in accordance with ITB Sub-Clause 12.1; and (b) Price Schedules, in accordance with ITB Clauses 12, 14, and 15.
32. Examination of Terms and Conditions; Technical Evaluation	32.1 The Purchaser shall examine the Bids to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.
	32.2 The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with ITB Clause 18, to confirm that all requirements specified in the Scope of Work at Section VI, of the Bidding Document have been met without any material deviation or reservation.
	32.3 If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Technical Proposal is not responsive in accordance with ITB Clause 29, it shall reject the Bid.
33. Margin of Preference	33.1 No margin of preference shall apply.
34. Evaluation of Bids	34.1 The Purchaser shall evaluate Price Proposals of each Bid for which the Technical Proposal has been determined to be responsive.
	34.2 To evaluate a Price Proposal, the Purchaser shall only use all the criteria and methodologies defined in this Clause and in Section IV, Eligibility Criteria and evaluation methodology in Appendix-E. No other criteria or methodology shall be permitted.
	34.3 To evaluate a Price Proposal, the Purchaser shall consider the following: <ul style="list-style-type: none"> (a) the Bid Price quoted in Price Proposal Submission Sheet i.e. inclusive of all duties, levies and taxes. (b) Price adjustment in accordance with Clause 14.3 of ITB for missing or non-conforming item(s) or component(s). (c) price adjustment for correction of arithmetic errors in accordance with ITB Sub-Clause 30.4;
	34.4 For comparison of the combined Technical and Price Score of all responsive bidders, following formula shall be used



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>(a) Total Score = (Technical Score x 0.50) + (LP/FPx100) x 0.50. Where LP is the lowest price offer and FP is the price offer of the firm being evaluated</p> <p>(b) Contracts shall be awarded only to the bidder with the highest evaluated Total Score</p>
35. Comparison of Bids	35.1 The Purchaser shall compare all responsive bids to determine the bid with the maximum score, in accordance with ITB Clause 34.
36. Post-qualification of the Bidder	36.1 The Purchaser shall determine to its satisfaction during the evaluation of Technical Proposals whether Bidders are qualified to perform the Contract satisfactorily.
	36.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 18 and to clarifications in accordance with ITB Clause 28. The eligible bidders shall only be as empanelled by Nodal Agency meeting qualifying requirements as mentioned in Eligibility Criteria (Section IV).
	36.3 An affirmative determination in accordance with this clause shall be a prerequisite for the opening and evaluation of a Bidder's Price Proposal. A negative determination shall result into the disqualification of the Bid, in which event the Purchaser shall return the unopened Price Proposal to the Bidder.
37. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids	37.1 The Purchaser reserves the right to accept or reject any Bid, and to annul the bidding process and reject all Bids at any time prior to Contract award, without thereby incurring any liability to the Bidders.
	F. Award of Contract
38. Award Criteria	38.1 The Purchaser shall award the Contract to the Bidder whose offer has been awarded the maximum score and is responsive to the Bidding Document, provided that such Bidder continues to remain empanelled as per the list (along with any updation/modifications from time to time) released by the Nodal Agency.
39. Purchaser's Right to Vary Quantities at Time of Award	39.1 At the time the Contract is awarded, the quantity of Goods and Related Services for a town shall not be modified. However Purchaser reserves the right to increase or decrease the number of towns under the contract subject to the limit of 30% of the existing number of towns covered under the contract, without any change in the unit prices or other terms and conditions of the Bid and the Bidding Document.
40. Notification of Award	40.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted.
	40.2 Until a formal Contract is prepared and executed, the notification of



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		award shall constitute a binding Contract.
41. Signing Contract	of	41.1 Promptly after notification, the Purchaser shall send to the successful Bidder the Agreement, a copy of SLA and the General and Special Conditions of Contract.
		41.2 Within fourteen (14) days of receipt of the Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.
		41.3 The successful Bidder shall provide an undertaking that the key staff identified for the project (as submitted in its bid proposal) shall be available for the respective proposed work requirement, anytime during the duration of the project, till its successful completion. The same is intended to be published by the Nodal Agency on their website for the information of other utilities who intend to appoint ITIA, for avoiding any duplicity in resource deployment
42. Performance Security		42.1 Within fourteen (14) days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the Performance Security in accordance with the GCC, using for that purpose the Performance Security Form included in Section IX, Contract Forms.
		42.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Purchaser may award the Contract to the next successful Bidder whose offer is responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.
43. Local Conditions		It will be imperative on each bidder to fully inform himself of all local conditions and factors which may have any effect on the execution of the works covered under these documents and specifications. The purchaser shall not entertain any request for clarifications from the bidders, regarding such local conditions. It must be understood and agreed that such factors have properly been investigated and considered while submitting the proposals. No claim for financial adjustment to the contract awarded under these specifications and documents will be entertained by the purchaser. Neither any change in the time schedule of the contract nor any financial adjustments arising thereof shall be permitted by the purchaser, which are based on the lack of such clear information or its effect on cost of the works to the bidder.
		G. Interpretation
44. Interpretation of the SRS and the RFP document		44.1 This Bid Document, inclusive of the SRS document, Schedules, annexure(s), the statements, exhibits and sections, if any, comprises the whole and complete Document
		44.2 This RFP document should be read in consonance with the SRS document. In the RFP document references to the SRS have been provided. In case there is no reference relating to a particular clause(s) of the SRS, it should be deemed as the said reference has



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>been provided. The bidder is required to read both the documents and would be deemed to be in knowledge of the provisions of both the SRS and the RFP document. No claim of any nature whatsoever shall be entertained in this regard.</p> <p>44.3 In case of any conflict with any provision relating to the SRS document and the RFP document, the provisions of the RFP document shall prevail for all intents and purposes</p>
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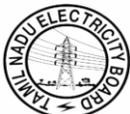
Section III. Bid Data Sheet

A. Introduction

ITB 1.1	The number of the Invitation for Bids is: TENDER SPECIFICATION NO. R-APDRP/ITIA/2/2009
ITB 1.1	The Purchaser is: Chief Engineer (Planning & RC) 6th Floor, Eastern Wing TNEB, Corporate Office, 144, Anna Salai, NPKRR Maligai, Chennai - 600 002 Phone: 044 28520803 Fax: 044 28521322 Email: ceplg@tnebnet.org
ITB 1.1	The name of the ICB is: Supply, installation, integration, testing, commissioning and facility management service of System Integration Project covering software, hardware, field survey and networking The identification number of the ICB is: < R-APDRP/ITIA/2/2009 >
ITB 4.1	Category of SI: NA

B. Bidding Document

ITB 7.1	For clarification purposes only, the Purchaser's address is: Chief Engineer (Planning & RC) 6th Floor, Eastern Wing TNEB, Corporate Office, 144, Anna Salai, NPKRR Maligai, Chennai - 600 002 Phone: 044 28520803 Fax: 044 28521322 Email: ceplg@tnebnet.org
ITB 7.2	Details of Pre-Bid conference:



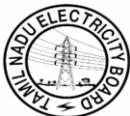
TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>Date: 21.10.2009 Venue: TNEB, Corporate Office Time: 11.00 Hrs.</p>
C. Preparation of Bids	
ITB 9.1	<p>The Tender Fees shall be required and the amount required in Indian Rupee is indicated hereunder</p> <p>Bid Identification No: R-APDRP/ITIA/2/2009</p> <p>Demand Draft in favor of: "TNEB Collection Account " payable at "CHENNAI"</p> <p>Amount (INR): 10,000/- (Rs. Ten Thousand Only) within TN Rs 11,050/- (Rs Eleven Thousand Fifty) outside TN Rs 300/- (Rs Three Hundred) extra postal charges.</p> <p>Bid Security in the form of Bank Guarantee</p>
ITB 10.1	<p>The language of the Bid is: English</p>
ITB 11.5 (g)	<p>The Bidder shall submit with its Technical Proposal the following additional documents:</p> <p>Refer to Appendix D.2</p>
ITB 11.6 (b)	<p>The Bidder shall submit with its Price Proposal the following additional documents:</p> <p>Refer to Appendix D.3</p>
ITB 13.1	<p>Alternative Bids shall not be permitted.</p>
ITB 14.4	<p>The Incoterms edition is: Year 2000</p>
ITB 14.5	<p>The prices quoted by the Bidder shall be: Firm (subject to Section VII GCC 13.2)</p>
ITB 15.1	<p>Bidders may express their bid price in INR. Wherever reference to "Rupees" or "Rs" as currency has been made, the same should be</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	taken as “Indian Rupees”.
ITB 19.1	The bid validity period shall be 90 days after the bid submission deadline date prescribed by the Purchaser.
ITB 20.1	<p>The Bid Security shall be required and the amount required to be furnished in Indian Rupee is indicated hereunder</p> <p>Bid Identification No: R-APDRP/ITIA/2/2009</p> <p>Bid Security (INR): 4.0 Crores (Indian Rupees Four Crores only)</p> <p>Bid Security in the form of Bank Guarantee</p>
D. Submission and Opening of Bids	
ITB 21.1	In addition to the original of the Bid, the number of copies is: FOUR
ITB 21.2	<p>The written confirmation of Authorization to sign on behalf of the Bidder shall consist of:</p> <p>Notarized Power of Attorney: - If the bidder is from a country where this practice is not used then a similar legal instrument of authorization as applicable under the home country laws of bidder must be provided.</p>
ITB 22.2 (c)	<p>The identification of this bidding process is:</p> <p>The identification of this bidding process is: Single stage Two envelope</p> <p>The name of ICB: Supply, installation, integration, testing, commissioning and facility management service of System Integration Project covering software, hardware, field survey and networking</p> <p>The bid identification No. shall be mentioned by the Bidder prominently on the top of envelope for the lots in the following manner :</p> <p>(a) Bidding process for the bid is : “Single stage Two envelope”</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	(b) Bid identification No. R-APDRP/ITIA/2/2009
ITB 23.1	For bid submission purposes only, the Purchaser's address is : Chief Engineer (Planning & RC) 6th Floor, Eastern Wing TNEB, Corporate Office, 144, Anna Salai, NPKRR Maligai, Chennai - 600 002 Phone: 044 28520803 Fax: 044 28521322 Email: ceplg@tnebnet.org
ITB 23.1	The deadline for bid submission is: Date: 30.10.2009 Time: 14 Hours. Wherever reference to "Time" has been made, the same shall be taken as Indian Standard Time. If time is mentioned in "P.M", the same shall be converted into Hours by adding 12 Hours e.g. 2 P.M equal to 2 + 12 i.e. "14.00 Hours IST"
ITB 26.1	The bid opening shall take place at: TNEB, Corporate Office Date: 30.10.2009 Time: 14 Hours.
E. Evaluation, and Comparison of Bids	
ITB 33.1	A margin of preference shall not apply.
ITB 34	The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is: Indian Rupees.



F. Award of Contract	
ITB 39.1	The percentage by which number of towns may be increased is: 30 percent of the total number of towns The percentage by which number of towns may be decreased is: 30 percent of the total number of towns
ITB 42.1	If the successful bidder fails to furnish the required Performance Security within 14 days of the receipt of notification of award, the Purchaser reserves the right to terminate the award by forfeiting Bid Security without any notice.
ITB 42.2	If the successful bidder fails to sign the Contract Agreement within 14 days from the date the successful bidder's receipt of the Contract Agreement, the Purchaser reserves the right to terminate the award by forfeiting Bid Security without any notice.



Section IV. Eligibility Criteria

Only those bidders which have been empanelled by the Nodal Agency shall be eligible for bidding. The qualifying requirements for the various ITIA roles have been provided as reference.

Qualifying Requirements

QR for System Integrator

The Lead member (referred as SI-Lead) and the 2nd consortium member (in case of a consortium; referred as SI-2nd) should meet the QR as mentioned below:

For all bidders (except power sector utilities)
<p>i. The SI must have implemented atleast one system integration project covering IT applications, Servers and PCs, WAN with connectivity between atleast 10 locations, during the last three financial years. In case of a consortium, this requirement needs to be met by the SI-Lead. (Proof: Necessary Purchase order/LOI/Contract/Certification on client letterhead/Performance certificate as proof of services provided for the last 3 financial years needs to be submitted)</p>
<p>ii. The SI should have cumulative turnover of atleast Rs. 300 crore for the last three audited financial years. In case of a consortium, the consortium as a whole (SI-Lead and SI-2nd combined) should have cumulative turnover of atleast Rs. 300 crore for the last three audited financial years. The SI-Lead should have a turnover of atleast Rs. 270 crore for the last three audited financial years. (Proof: Annual Audited Financial Statements for last three financial years)</p>
<p>iii. The SI should have a positive net worth not less than paid-up equity, in each of the last three audited financial years. In case of a consortium, both the SI-Lead and SI-2nd should have positive net worth not less than paid-up equity in each of the last three audited financial years. (Proof: Annual Accounts for last three financial years)</p>
<p>iv. The SI should have been in the IT / Software services for the last 3 years. In case of a consortium, this requirement needs to be met by the SI-Lead. (Proof for which to be submitted in the form of Incorporation Certificate alongwith Memorandum & Articles of Association)</p>
<p>v. The SI should have implemented a turnkey Systems Integration project in the last three financial years involving atleast 5 of the following modules: GIS, MIS, Web Self Service, Asset Management, Maintenance Management, Billing, Metering, Energy Auditing/Accounting, Customer Care, Network, Hardware in any Utility (Power/Gas/Water/Telecom sectors) or infrastructure sector (rail/road/port/airport). The total consumer base covered by the SI for such project in the any Utility should not be less than 50,000. This requirement is not applicable for infrastructure sector (rail/road/port/airport) projects as these cater to mass consumers. In case of a consortium, the requirement of atleast 5 modules is distributed as follows: SI-Lead needs to meet the above requirement for atleast 4 modules, and the SI-2nd for atleast 1 module. (Proof: Necessary Purchase order/LOI/Contract/Certification on client letterhead/Performance certificate as proof of services provided for the last 3 financial years needs to be submitted)</p>
<p>vi. The SI should have worked with atleast one utility (Power/Gas/Water/Telecom sectors) or infrastructure sector (rail/road/port/airport) in implementing turnkey Systems Integration projects. The total worth of projects executed in this domain for the last</p>



Tamil Nadu Electricity Board
RFP Document for Appointment of IT Implementation Agency

three financial years should be atleast INR 50 crore (USD10 million). In case of a consortium, this requirement needs to be met by the SI-Lead. (Proof: Necessary Purchase order/LOI/Contract/Certification on client letterhead/Performance certificate as proof of services provided for the last 3 financial years needs to be submitted)
vii. The SI should be ISO 9001:2000 or have atleast CMM/CMMI level 4 certification. In case of a consortium, this requirement needs to be met by the SI-Lead. (Proof: Copy of certification from authorized certification body)
viii. The SI should have atleast 20 personnel on its rolls with a minimum experience of 5 years (either in his/her own or other organization). The roles & responsibilities of the personnel should include system integration of IT applications or software or hardware or network. In case of a consortium, the requirement of atleast 20 personnel is distributed as follows: SI-Lead needs to meet the above requirement for atleast 15 CVs, and the SI-2nd for atleast 5 CVs (Proof: Signed resume of employees need to be submitted. Scanned signatures shall be accepted.)

For power sector utility as bidder (no consortium allowed under this category)
i. The SI must have implemented, within its own organisation, atleast one system integration project covering IT applications, Servers and PCs, WAN project with connectivity between atleast 10 locations during the last three financial years.
ii. The SI should have cumulative turnover of atleast Rs.2,500 crore for the last three audited financial years. (Proof: Annual Audited Financial Statements for last three financial years)
iii. The SI should have a positive net worth not less than paid-up equity in each of the last three audited financial years. (Proof: Annual Audited Financial Statements for last three financial years)
iv. The SI should have implemented a turnkey Systems Integration project involving atleast any 5 of the following modules: GIS, MIS, Web Self Service, Asset Management, Maintenance Management, Billing, Metering, Energy Auditing / Accounting, Customer Care, Network, hardware. The total consumer base covered by the SI for such project in the any Utility should not be less than 50,000. This requirement is not applicable for infrastructure sector (rail/road/port/airport) projects as these cater to mass consumers. The total worth of turnkey Systems Integration projects implemented by the SI in above domain should be atleast INR 50 crore (USD10 million).
v. The SI should have atleast 20 personnel on its rolls with a minimum experience of 5 years (either in his/her own or other organization). The roles & responsibilities of the personnel should include system integration of IT applications or software or hardware or network. (Proof: Signed resume of employees need to be submitted. Scanned signatures shall be accepted.)

Proof of credentials for experience (refer i and iv above) should be either of the following:

- The ARR/DPRs which have been approved by respective Regulatory Commission, with clear mention of the project details and its value. The same should be supported by an undertaking from the Company Secretary
- Auditor's certification along with Undertaking by Company Secretary with clear mention of the project details and its value (including module wise go-live dates and the current status of the project)

QR for Network Solution Provider

For all bidders (except power sector utilities)
i. The Network Solution Provider should have implemented atleast 5 multi location WAN



Tamil Nadu Electricity Board
RFP Document for Appointment of IT Implementation Agency

<p>projects (installation, integration, maintenance & management) during the last three financial years out of which atleast two projects should have involved Leased Lines or ISDN or VSAT or RF or DSL or VPN /MPLS or Fibre Optics or a combination of these technologies for a customer having a minimum of 10 WAN locations. (Proof: Necessary Purchase order/LOI/Contract/Certification on client letterhead/Performance certificate as proof of services provided for the last 3 financial years needs to be submitted)</p>
<p>ii. The Network Solution Provider should have been in the Network installation/maintenance services for the last 3 years. (Proof for which to be submitted in the form of Incorporation Certificate alongwith Memorandum & Articles of Association)</p>
<p>iii. The Network Solution Provider should have cumulative turnover of atleast Rs. 60 crore for the last three audited financial years. (Proof: Annual Audited Financial Statements for last three financial years)</p>
<p>iv. The Network Solution Provider should have a positive net worth in each of the last three audited financial years. (Proof: Annual Audited Financial Statements for last three financial years)</p>
<p>v. Network Solution Provider should be an ISO 9001:2000 certified company. (Proof: Copy of certification from authorized certification body)</p>
<p>vi. The Network Solution Provider should have atleast 10 personnel on its rolls with a minimum experience of 5 years (either in his/her own or other organization). The roles & responsibilities of the personnel should include installation or integration or maintenance or management of network systems. (Proof: Signed resume of employees need to be submitted. Scanned signatures shall be accepted.)</p>

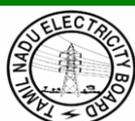
For power sector utility as bidder

<p>i. The Network Solution Provider should have implemented, within its own organisation, atleast one project involving Leased Lines or ISDN or VSAT or RF or DSL or VPN /MPLS or Fibre Optics or a combination of these technologies having a minimum of 10 WAN locations during last three financial years.</p>
<p>ii. The Network Solution Provider should have cumulative turnover of atleast Rs. 2500 crore for the last three audited financial years. (Proof: Annual Audited Financial Statements for last three financial years)</p>
<p>iii. The Network Solution Provider should have a positive net worth in each of the last three audited financial years. (Proof: Annual Audited Financial Statements for last three financial years)</p>
<p>iv. The Network Solution Provider should have atleast 10 personnel on its rolls with a minimum experience of 5 years (either in his/her own or other organization). The roles & responsibilities of the personnel should include installation or integration or maintenance or management of network systems. (Proof: Signed resume of employees need to be submitted. Scanned signatures shall be accepted.)</p>

Proof of credentials for experience (refer i above) should be either of the following:

- The ARR/DPRs which have been approved by respective Regulatory Commission, with clear mention of the project details and its value. The same should be supported by an undertaking from the Company Secretary
- Auditor's certification along with Undertaking by Company Secretary with clear mention of the project details and its value (including module wise go-live dates and the current status of the project)

QR for GIS Solution Provider



Tamil Nadu Electricity Board
RFP Document for Appointment of IT Implementation Agency

All bidders (except power sector utilities)

- i. The GIS Solution Provider should have executed atleast two GIS projects (software development & customization & mapping and digitization) in utility (Power/Gas/Water/Telecom sectors) or infrastructure sector (rail/road/port/airport) during the last three financial years.
(Proof: Necessary Purchase order/LOI/Contract/Certification on client letterhead/Performance certificate as proof of services provided for the last 3 financial years needs to be submitted)
Additional Note: In case a company has implemented GIS systems in the last 5 years, and has been maintaining the same system since commissioning till date, such maintenance contracts for the last three years, shall be acceptable as proof
- ii. The GIS Solution Provider should have cumulative turnover of atleast Rs. 10 crore for the last three audited financial years.
(Proof: Annual Audited Financial Statements for last three financial years)
- iii. The GIS Solution Provider should have a positive net worth not less than paid-up equity in each of the last three audited financial years.
(Proof: Annual Audited Financial Statements for last three financial years)
- iv. The GIS Solution Provider should have been in the GIS Software development & customization or mapping or digitization services for the last 3 years.
(Proof for which to be submitted in the form of Incorporation Certificate alongwith Memorandum & Articles of Association)
- v. GIS Solution Provider should be an ISO 9001:2000 certified company.
(Proof: Copy of certification from authorized certification body)
- vi. The GIS Solution Provider should have atleast 10 personnel on its rolls with a minimum experience of 5 years (either in his/her own or other organization). The roles & responsibilities of the personnel should include GIS software development & customization or mapping or digitization.
(Proof: Signed resume of employees need to be submitted. Scanned signatures shall be accepted)

For power sector utility as bidder

- i. The GIS Solution Provider should have executed, within its own organisation, atleast one GIS project (software development & customization & mapping and digitization).
Additional Note: In case a company has implemented GIS systems in the last 5 years, and has been maintaining the same system since commissioning till date, such maintenance contracts for the last three years, shall be acceptable as proof
- ii. The GIS Solution Provider should have cumulative turnover of atleast Rs. 2500 crore for the last three audited financial years.
(Proof: Annual Audited Financial Statements for last three financial years)
- iii. The GIS Solution Provider should have a positive net worth not less than paid-up equity in each of the last three audited financial years.
(Proof: Annual Audited Financial Statements for last three financial years)
- iv. The GIS Solution Provider should have atleast 10 personnel on its rolls with a minimum experience of 5 years (either in his/her own or other organization). The roles & responsibilities of the personnel should include GIS software development & customization or mapping or digitization.
(Proof: Signed resume of employees need to be submitted. Scanned signatures shall be accepted)

Proof of credentials for experience (refer i above) should be either of the following:



Tamil Nadu Electricity Board
RFP Document for Appointment of IT Implementation Agency

- The ARR/DPRs which have been approved by respective Regulatory Commission, with clear mention of the project details and its value. The same should be supported by an undertaking from the Company Secretary
- Auditor's certification along with Undertaking by Company Secretary with clear mention of the project details and its value (including module wise go-live dates and the current status of the project)

QR for Meter Data Acquisition Solution Provider

All bidders (except power sector utilities)

- i. The Meter Data Acquisition Solution Provider must have successfully implemented atleast one AMR project or data logging system or served a power distribution utility providing services using meter reading instrument (MRI) in the last 3 financial years.
(Proof: Necessary Purchase order/LOI/Contract/Certification on client letterhead/Performance certificate as proof of services provided for the last 3 financial years needs to be submitted)
In case a company has implemented MDA systems in the last 5 years, and has been maintaining the same system since commissioning till date, such maintenance contracts for the last three years, shall be acceptable as proof.
- ii. The Meter Data Acquisition Solution Provider should have been in the business of Meter Data Acquisition (development and customization of software, and/or commissioning AMR/Data logging system/MRI) for the last 3 financial years.
(Proof for which to be submitted in the form of Incorporation Certificate alongwith Memorandum & Articles of Association)
- iii. The Meter Data Acquisition Solution provider should have cumulative turnover of atleast Rs. 10 crore for the last three audited financial years.
(Proof: Annual Audited Financial Statements for last three financial years)
- iv. The Meter Data Acquisition Solution Provider should have a positive net worth not less than paid-up equity in each of the last three audited financial years.
(Proof: Annual Audited Financial Statements for last three financial years)
- v. Meter Data Acquisition Solution Provider should be an ISO 9001:2000 certified company.
(Proof: Copy of certification from authorized certification body)
- vi. The Meter Data Acquisition Solution provider should have atleast 10 personnel on its rolls with a minimum experience of 5 years (either in his/her own or other organization). The roles & responsibilities of the personnel should include development and/or customization of Meter Data Acquisition System.
(Proof: Signed resume of employees need to be submitted. Scanned signatures shall be accepted.)

For power sector utility as bidder

- i. The Meter Data Acquisition Solution Provider must have successfully implemented atleast one AMR project or data logging system or served a power distribution utility providing services using meter reading instrument (MRI) in the last 3 financial years.
Additional note: In case a company has implemented MDA systems in the last 5 years, and has been maintaining the same system since commissioning till date. Such maintenance contracts for the last three years, shall be acceptable as proof
- ii. The Meter Data Acquisition Solution provider should have cumulative turnover of atleast Rs. 2500 crore for the last three audited financial years.
(Proof: Annual Audited Financial Statements for last three financial years)
- iii. The Meter Data Acquisition Solution Provider should have a positive net worth not less than paid-up equity in each of the last three audited financial years.
(Proof: Annual Audited Financial Statements for last three financial years)
- iv. The Meter Data Acquisition Solution provider should have atleast 10 personnel on its rolls



Tamil Nadu Electricity Board
RFP Document for Appointment of IT Implementation Agency

with a minimum experience of 5 years (either in his/her own or other organization). The roles & responsibilities of the personnel should include development and/or customization of Meter Data Acquisition System.
(Proof: Signed resume of employees need to be submitted. Scanned signatures shall be accepted.)

Proof of credentials for experience (refer i above) should be either of the following:

- The ARR/DPRs which have been approved by respective Regulatory Commission, with clear mention of the project details and its value. The same should be supported by an undertaking from the Company Secretary

Auditor's certification along with Undertaking by Company Secretary with clear mention of the project details and its value (including module wise go-live dates and the current status of the project)

ADDITIONAL QUALIFYING REQUIREMENT FOR MBC APPLICATION

IN CASE SI IS NOT PROVIDING MBC APPLICATION OF HIS OWN / DEVELOPED BY HIM, THE FOLLOWING QR IS APPLICABLE FOR OUTSOURCED SOLUTION-

1. THE MBC APPLICATION IS AVAILABLE AS OFF THE SHELF PRODUCT OF AN OEM AND HAVE BEEN IMPLEMENTED AND SUCCESSFULLY UNDER OPERATION FOR A PERIOD OF AT LEAST 1 YEARS FOR AT LEAST FIVE LAKHS CONSUMERS IN UTILITY. THE SOLUTION SHOULD BE RUNNING ON A WEB BASED CENTRALIZED WAN ENVIRONMENT. THE BIDDER SHOULD PRODUCE A COPY OF CERTIFICATE FOR SUCCESSFUL COMPLETION OF USER ACCEPTANCE TEST.

OR

IN CASE THE OFFERED MBC SOLUTION IS NOT FROM AN OEM THEN THE BIDDERS (SI) HAVE AN OPTION TO SUPPLY CUSTOMIZED SOLUTION IMPLEMENTED IN ANY OF THE INDIAN POWER UTILITIES AND IT SHOULD MEET THE FOLLOWING CONDITION:

THE APPLICATION MUST BE UNDER OPERATION FOR AT LEAST 3 YEARS IN INDIAN POWER UTILITIES FOR A CONSUMER BASE OF 10 LAKHS COVERING DOMESTIC, NON-DOMESTIC AND HT CONSUMERS AND THE SOLUTION, SHOULD BE RUNNING ON A WEB BASED CENTRALIZED WAN ENVIRONMENT AT LEAST FOR A PERIOD OF ONE YEAR.

2. THE SOFTWARE WHICH WORK ONLY IN DECENTRALIZED ENVIRONMENT (SPOT BILLING APPLICATIONS) SHALL NOT BE CONSIDERED

3. THE BIDDER MUST PROVIDE DOCUMENTARY EVIDENCES INCLUDING SCREEN SHOTS DESCRIBING FUNCTIONALITIES OF THE PROPOSED SOLUTION AND CERTIFICATE FROM THE PURCHASER / OWNER REGARDING SUCCESSFUL OPERATION OF THE IMPLEMENTED APPLICATION.



Section V. Bidding Forms

Table of Forms

1	TECHNICAL PROPOSAL SUBMISSION SHEET	2
2	PRICE PROPOSAL SUBMISSION SHEET	3
3	BID SECURITY	4
4	MANUFACTURER'S AUTHORISATION	6
5	CERTIFICATE AS TO CORPORATE PRINCIPAL	7
6	PRE-BID PARTICIPATION FORMAT	8
7	PRE-BID QUERY FORMAT	9



1 Technical Proposal Submission Sheet

Date: _____
ICB No.: _____
Invitation for Bid No.: _____
Alternative No.: _____

To: _____

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda No. (if Any): _____
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the delivery schedule, the following Goods and Related Services: _____
- (c) Our Bid shall be valid for a minimum period of 90 days from the date fixed for the bid submission deadline in accordance with the Bidding Document, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of 10 percent of the Contract Price for the due performance of the Contract;
- (e) We are not participating, as Bidders, in more than one Bid in this bidding process in accordance with the Bidding Document;
- (f) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Tamil Nadu Electricity Board.
- (g) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed.
- (h) We understand that you are not bound to accept the best evaluated bid or any other bid that you may receive.
- (i) We undertake to open office in Chennai after award of contract.

Name _____
In the capacity of _____
Signed _____
Duly authorized to sign the Bid for and on behalf of _____
Date _____



2 Price Proposal Submission Sheet

Date: _____
ICB No.: _____
Invitation for Bid No.: _____
Alternative No.: _____

To: _____

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda No. (if any): _____
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the delivery schedule, the following Goods and Related Services: _____
- (c) The total price of our Bid is: _____

- (d) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract:

Name of Recipient	Address	Reason	Amount
-------------------	---------	--------	--------

(If none has been paid or is to be paid, indicate "none.")

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____



3 Bid Security

(To be accompanied with the bank Guarantee)

Date: _____
ICB No.: _____
Invitation for Bid No.: _____

To: _____

Whereas _____

_____ (hereinafter called "the Bidder") has submitted its Bid dated _____ for ICB No. _____ for the supply of _____ hereinafter called "the Bid."

KNOW ALL PEOPLE by these presents that WE _____ of _____ having our registered office at _____ (hereinafter called "the Guarantor"), are bound unto _____ (hereinafter called "the Purchaser") in the sum of _____ for which payment well and truly to be made to the aforementioned Purchaser, the Guarantor binds itself, its successors, or assignees by these presents. Sealed with the Common Seal of this Guarantor this _____ day of _____, _____.

THE CONDITIONS of this obligation are the following:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder in the Bid Submission Sheet, except as provided in ITB Sub-Clause 19.2; or
2. If the Bidder, having been notified of the acceptance of its Bid by the Purchaser, during the period of bid validity, fails or refuses to:
 - (a) Execute the Contract; or
 - (b) Furnish the Performance Security, in accordance with the ITB Clause 42; or
 - (c) Accept the correction of its Bid by the Purchaser, pursuant to ITB Clause 30.

We undertake to pay the Purchaser without protest or demur up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser states that the amount claimed by it is due to it, owing to the occurrence of one or more of the above conditions, specifying the occurred conditions.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

This security shall remain in force up to and including sixty (60) days after the period of bid validity, and any demand in respect thereof should be received by the Guarantor no later than the above date.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid Security for and on behalf of _____

Date _____



4 Manufacturer's Authorisation

(To be obtained from all OEMs)

Date: _____

ICB No.: _____

Invitation for Bid No.: _____

Alternative No.: _____

To: _____

WHEREAS _____ who are official manufacturers of _____ having factories at _____ do hereby authorize _____ to submit a Bid in relation to the Invitation for Bids indicated above, the purpose of which is to provide the following Goods, manufactured by us _____ and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 26 of the General Conditions of Contract, with respect to the Goods offered by the above firm in reply to this Invitation for Bids.

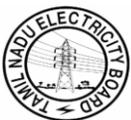
Name _____

In the capacity of: _____

Signed _____

Duly authorized to sign the Authorization for and on behalf of _____

Date _____



5 Certificate as to Corporate Principal

CERTIFICATE AS TO CORPORATE PRINCIPAL
(To be signed by any of Board Directors or Co.Secry)
(To be accompanied along with requisite copy of the board resolution)

I _____ certify that I am _____ of the Company under the laws of _____ and that _____ who signed the above tender is authorized to bind the Company / Firm by authority of its governing body.

Signature : _____
Full Name : _____
Address : _____



6 Pre-Bid Participation Format

PRE-BID PARTICIPATION FORMAT

We certify that we _____ are empanelled as IT Implementation Agency under RAPDRP Part A Scheme.

We hereby authorize _____, to attend the Pre-Bid Conference for "Appointment of IT Implementation Agency by Tamil Nadu Electricity Board" on our behalf.

We have already submitted our queries (if any) 4(Four) days in advance to Tamil Nadu Electricity Board.

Authorized Signatory name:

Signature: _____
Full Name: _____
Address: _____



7 Pre-Bid Query Format

Pre Bid Query Format					
Sl. No.	Document	Clause No./ Pg No.	Clause	Query	Suggestion
1					
2					
3					
4					
5					
6					



Section VI. Scope of Work

The detailed scope of work has been as mentioned in various sections of the SRS document as follows: Please note that Since the execution of RAPDRAP scheme is within the stipulated time is a pre-requisite to convert the amount sanctioned by MoP from loan to grant, the vendor is required to plan project execution activities strictly as per the timelines given.

If the MoP & PFC issues any amendment to the SRS document till the date of opening of this bid document, those amendments will become an integral part of this bid document. For which a separate intimation will also be given to empanelled SIs.

4 Towns of Puducherry and 1 town of Andaman & Nicobar will be included in the ITIA Scope. The Data Center and Disaster Recovery Center resources and space will be shared by the two utilities. Bidders should accordingly provision the same in their technical and commercial bids.

1) Section G1

- a. Intent of Specification
- b. Scope of Work
- c. Other Services and Items
- d. Specific Exclusions
- e. Utility's Current IT Infrastructure
- f. Arrangement by the Contractor
- g. Software tools
- h. Warranty, operational guarantee and system reliability with 'on-site' support
- i. Annual Maintenance Contract
- j. Price Loading for Evaluation of Bids
- k. Payment terms
- l. Project synopsis
- m. Bid Schedule
- n. Basic reference drawings
- o. Spares
- p. Time schedule
- q. Implementation schedule
- r. Quality assurance plan
- s. Qualifying requirements

2) Section G2



Tamil Nadu Electricity Board
RFP Document for Appointment of IT Implementation Agency

- a. Introduction
- b. System Functionality
- c. Module : Meter Data Acquisition
- d. Module : Energy Audit
- e. Module : New Connection
- f. Module : Disconnection & Dismantling
- g. Module : GIS based customer Indexing and asset mapping
- h. Module : GIS based integrated network analysis module
- i. Module : Centralized Customer Care Services
- j. Module : Management Information System (MIS)
- k. Module : Web Self Service
- l. Module : Identity and Access Management system
- m. Module : System Security Requirement
- n. Development of Commercial Database of Consumers
- o. Module : Metering
- p. Module : Billing
- q. Module : Collections
- r. Module: Asset Management
- s. Module: - Maintenance Management

3) Section G3

- a. Introduction
- b. LAN
- c. VPN/MPLS WAN
- d. Implementation Plan
- e. Cabling System and Component Specifications
- f. Switches
- g. Mail / Messaging System
- h. Firewalls and NIDS System
- i. Servers
- j. Storage & Backup Subsystem
- k. Enterprise Management System including Network Management, Monitoring & Network Performance Analysis
- l. Routers
- m. IP PBX and IP Phones



Tamil Nadu Electricity Board
RFP Document for Appointment of IT Implementation Agency

- n. Anti Virus Solution
 - o. Hardware for AMR based Data Logging System
 - p. Hardware for customer care center related equipment
 - q. Spot Billing Machine
 - r. Work Station
 - s. Printers
 - t. IDMS & Kiosks
 - u. UPS & Battery system
 - v. Disaster Recovery Center
- 4) Section G4
- a. Introduction
 - b. Clause 2: Objectives
 - c. Clause 3: Scope of Work
 - d. Clause 4: Field survey and mapping
 - e. Clause 5: Indexing
 - f. Clause 6: Deliverables
 - g. Clause 7: Implementation Methodology
 - h. Clause 8: Satellite Imagery Specifications
- 5) Section G5
- a. Introduction
 - b. Duration & payments
 - c. Penalty clause
 - d. Qualifying requirements of FMS vendor
 - e. Scope of Work
 - f. Service management controls
 - g. Resources for project & service management
 - h. FMS duration, availability & criticality
 - i. Change of Service levels

The ITIA shall be responsible for integration of the IT system created under the R-APDRP scheme at all the selected Project Areas, Central Customer Care Centre, Disaster Recovery Centre and Data Centre, by using inter-operatability profile/APIs, etc., for data exchange & seamless integration.

Reference to the following should be made for seeking the details about the utility::

Appendix-F: Geographic and administrative information



Tamil Nadu Electricity Board
RFP Document for Appointment of IT Implementation Agency

Appendix-G: List of offices for WAN connectivity

Appendix-H: Review of current IT Systems

Appendix-I: List of manuals/business processes to be converted to electronic form

Appendix-J: Review of current business processes

Appendix-K: Website

Appendix-L: List of goods and related services

6) Utility Obligations

For successful execution of the project, Utility shall provide the following to the Agency: -

- a. Utility shall assign one Project Manager for smooth execution of Project activities, approvals, acceptance of implemented systems, payments etc. who shall be single point of contact for the bidder.
- b. Metering database (hard / Soft copy as per availability) of consumers, Distribution Transformers and substation feeders
- c. Billing and revenue database (hard / Soft copy as per availability) of consumers including consumer name, category, sanctioned load, mailing address, tariff structure, outstanding amounts, security deposits, etc.
- d. Asset database (hard / Soft copy as per availability) of utility including poles, Distribution Transformers, Substation feeders etc.
- e. List of existing offices along with mailing address and concerned authorized Utility official covering Head Quarter / Circles / Zones / Division / Sub-divisions / Billing Centers / Collection Centers etc.
- f. Location wise name and number of users of the system
- g. Authorization for procurement of Satellite Image, as per SRS document
- h. Authorization to fulfill all formalities to acquire Leased Line / Broadband / GPRS communication and any other such authorizations required for the successful implementation of the project.
- i. Permission for conducting the field surveys / installations for execution of project.
- j. Providing shutdowns on Agency's request as per pre-decided schedule.
- k. Utility shall provide the Building and Electricity Connection for Data Centre, Customer Care Centre and Disaster Recovery Site as these facilities shall be owned by the Utility.
- l. After the installation of the equipment and its acceptance, it will be utility's responsibility to safeguard those equipments/goods.



Section VII. General Conditions of Contract

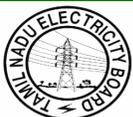
Table of Clauses

1.	CONTRACT DOCUMENTS	6
2.	CORRUPT PRACTICES	6
3.	INTERPRETATION	7
4.	LANGUAGE	9
5.	CONSORTIUM	9
6.	NOTICES	9
7.	GOVERNING LAW	10
8.	SETTLEMENT OF DISPUTES	10
9.	SCOPE OF WORK	10
10.	DELIVERY	10
11.	SUPPLIER'S RESPONSIBILITIES	10
12.	PURCHASER'S RESPONSIBILITIES	11
13.	CONTRACT PRICE	11
14.	TERMS OF PAYMENT	11
15.	TAXES AND DUTIES	12
16.	PERFORMANCE SECURITY	12



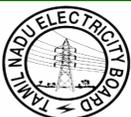
TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

17. INTELLECTUAL PROPERTY	13
18. CONFIDENTIAL INFORMATION	14
19. SUBCONTRACTING	15
20. SPECIFICATIONS AND STANDARDS	16
21. PACKING AND DOCUMENTS	16
22. INSURANCE	17
23. TRANSPORTATION	17
24. INSPECTIONS AND TESTS	17
25. LIQUIDATED DAMAGES AND PENALTY	18
26. WARRANTY	18
27. LIABILITY/ INDEMNITY	19
28. LIMITATION OF LIABILITY	20
29. CHANGE IN LAWS AND REGULATIONS	21
30. FORCE MAJEURE	21
31. CHANGE ORDERS AND CONTRACT AMENDMENTS	21
32. EXTENSIONS OF TIME	22
33. TERMINATION	22
34. ASSIGNMENT	24
35. DISCLAIMER	24



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

36. PUBLIC DISCLOSURE	25
37. SLA AUDIT	25
38. ADHERENCE TO SAFETY PROCEDURES, RULES REGULATIONS AND RESTRICTION	25
39. NON-SOLICITATION OF STAFF	25
40. SURVIVAL	26



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

General Conditions of Supply

<p>(1) Definitions</p>	<p>The following words and expressions shall have the meanings hereby assigned to them:</p> <p>1.1.1. “Contract” means the Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.</p> <p>(b) “Contract Documents” shall mean the following documents listed, including any amendments thereto to be read and construed as part of this Agreement, viz.:</p> <ul style="list-style-type: none">i. the Detailed award of contract;ii. the Service level agreement;iii. the Special Conditions of Contract;iv. the General Conditions of Contract;v. the Scope of Work;vi. the System Requirement Specification Document (SRS)vii. the Instructions to bidders;viii. the Purchaser’s Notification to the Supplier for Award of Contract;ix. Supplier’s response (proposal) to the RFP, including the Bid Submission Sheet and the Price Proposal submitted by the Supplier;x. Appendix A to B & E to O;xi. Acceptance of purchaser’s notificationxii. RFQ document (Identification No: R-APDRP/ITIA/2008/11) along with all corrigendum, clarifications and related documents issued by the Nodal Agency <p>1.1.2. “Contract Price” means the price payable to the Supplier as specified in the Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.</p> <p>1.1.3. “Day” means calendar day.</p> <p>1.1.4. “Delivery” means the transfer of the Goods and services from the Supplier to the Purchaser in accordance with the terms and conditions set forth in the Contract.</p> <p>1.1.5. “Completion” shall mean the completion of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.</p> <p>1.1.6. “GCC” means the General Conditions of Contract.</p> <p>1.1.7. “Goods” means all hardware, software, networking</p>
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

equipment and/or other equipment accessories and materials that the Supplier is required to supply to the Purchaser under the Contract.

1.1.8. **“Intellectual Property Rights”** means any patent, copyright, trademark, trade name, service marks, brands, propriety information, whether arising before or after the execution of this Contract and the right to ownership and registration of these rights.

1.1.9. **“Purchaser’s Country”** shall mean India.

1.1.10. **“Purchaser”** means the entities purchasing the Goods and Related Services.

1.1.11. **“Related Services”** means the services to be provided as per the requirements / conditions specified in the Contract. In addition to this, the definition would also include other related/ancillary services that may be required to execute this Contract.

1.1.12. **“SCC”** means the Special Conditions of Contract.

1.1.13. **“Service Level Agreement” (SLA)** shall mean the Service Level Agreement entered into between the Purchaser and the Supplier.

1.1.14. **“Subcontractor”** means any natural person, private or government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier, as per the provisions of Clauses 19 of the GCC.

1.1.15. **“Supplier”** means the empanelled System Integrator (SI) whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the Supplier.

1.1.16. **“The MoP”** is the Ministry of Power, Government of India.

1.1.17. **“The Site,”** shall mean all identified locations within the State of Tamil Nadu, where the Supplier carries out any installation of Goods or is required to provide any Related Services.

1.1.18. **“OEM”** means the Original Equipment Manufacturer of any equipment / system / software / product that are providing such goods to the Purchaser under the scope of this Tender / Contract.

1.1.19. **“Kick Off Meeting”** means a meeting convened by the



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>Purchaser to discuss and finalize the work execution plan and procedures with the Supplier.</p> <p>1.1.20. the term “in writing” means communicated in written form with proof of receipt</p>
1. Contract Documents	<p>1.1. Subject to the order of precedence set forth in the Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory.</p>
2. Corrupt Practices	<p>2.1. The Purchaser requires bidders, suppliers, and contractors to observe the highest standard of ethics during the execution of such contracts.</p> <p>2.1.1. The following definitions apply:</p> <p>“corrupt practice” means the offering, giving receiving, or soliciting, directly or indirectly, of any thing of value to influence the action of any party in the procurement process or the execution of a contract;</p> <p>“fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;</p> <p>“collusive practices” means a scheme or arrangement between two or more bidders, with or without the knowledge of the Tamil Nadu Electricity Board, designed to influence the action of any party in a procurement process or the execution of a contract;</p> <p>“coercive practices” means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;</p> <p>2.1.2. The Purchaser will reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract.</p> <p>2.1.3. After the award of the contract if it is comes to the knowledge of the Utility that the Supplier has engaged in corrupt, fraudulent, collusive, or coercive practices at any stage, the Purchaser shall forthwith terminate the contract as per the provisions of GCC Clause 33.</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

3. Interpretation	3.1. In this Contract unless a contrary intention is evident: <ul style="list-style-type: none">A. In case of any conflict with any provision relating to the SRS document and the RFP document, the provisions of the RFP document shall prevail for all intents and purposesB. the clause headings are for convenient reference only and do not form part of this Contract;C. unless otherwise specified a reference to a clause number is a reference to all of its sub-clauses;D. unless otherwise specified a reference to a clause, sub-clause or section is a reference to a clause, sub-clause or section of this Contract including any amendments or modifications to the same from time to time;E. a word in the singular includes the plural and a word in the plural includes the singular;F. a word importing a gender includes any other gender;G. a reference to a person includes a partnership and a body corporate;H. a reference to legislation includes legislation repealing, replacing or amending that legislation;I. where a word or phrase is given a particular meaning it includes the appropriate grammatical forms of that word or phrase which have corresponding meaningsJ. In the event of an inconsistency between the terms of this Contract and the Bid document and the proposal, the terms of this contract hereof shall prevail.K. (K) Whenever a material or article is specified or described by the name of a particular brand, manufacturer or trade mark, the specific item shall be understood as establishing type, function and quality desired. Products of other manufacturers may also be considered, provided sufficient information is furnished so as to enable the Purchaser to determine that the products are equivalent to those named
	3.2. Incoterms <p>The meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.</p> <p>3.2.1. EXW, CIF, CIP, and other similar terms, shall be governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce at the date of the Invitation for Bids or as specified in the SCC.</p>
	3.3. Entire Agreement



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.</p>
	<p>3.4. Amendment</p> <p>No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.</p>
	<p>3.5. Waiver</p> <p>3.5.1. Subject to GCC Sub-Clause 3.5.2 below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract. Neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.</p> <p>3.5.2. The waiver by either party of a breach or default of any of the provisions of this contract by the other party shall not be interpreted as :</p> <p>A) A waiver of any succeeding breach of the same or other provision, nor shall any delay or omission on the part of the other party to exercise; or</p> <p>B) A way to avail itself of any right, power, or privilege that it has or may have under this contract to operate as waiver of any breach or default by the other party.</p> <p>3.5.3. Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.</p>
	<p>3.6. Severability</p> <p>If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract or the contract as a whole and the remaining provisions of the contract shall remain in full force and effect.</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

4. Language	4.1. The official language of the Contract is English. Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in English. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, the English translation shall govern.
	4.2. The Supplier shall bear all costs of translation to English and all risks of the accuracy of such translation. The Supplier shall be bound to the English translation and what has been stated therein.
5. Consortium	5.1. If the Supplier is a consortium, the members of such consortium shall be jointly and severally liable to the Purchaser for the fulfillment of the provisions of the Contract. Only the Lead Member (as mentioned at the Empanelment stage) shall have the authority to conduct all businesses for and on behalf of the Consortium during the bidding process and, in the event the Consortium is awarded the Contract, during contract execution The composition of the consortium cannot be altered. 5.1.1. Without prejudice to Clause 5.1 of this GCC, for the purposes of fulfillment of it's obligations as laid down under the Contract where the Purchaser deems fit and unless the context requires otherwise, Supplier shall refer to the Lead Member who shall be the sole point of interface between the Purchaser and the Consortium and would be absolutely accountable for the performance of its own, the other members of Consortium and/or its Team's functions as also the subcontractors. 5.1.2. All payments shall be made by the Purchaser in favour of the Lead Member.
6. Notices	6.1. All notices and other communications under this contract must be in writing, and must either be mailed by registered mail with acknowledgement Due. Or hand delivered with proof of it having been received. 6.2. If mailed, all notices will be considered as delivered after 5 days, of the notice having been mailed. If hand delivered, all notices will be considered, when received by the party to whom the notice is meant and sent for. 6.3. All notices under this contract shall be sent to or delivered at the address as specified by the parties in the SCC.
	6.4. A Notice shall be effective when delivered or on the Notice's



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	effective date, whichever is later.
7. Governing Law	<p>7.1. The Contract shall be governed by and interpreted in accordance with the laws of the India. The High Court of Judicature at <u>Chennai</u> and Courts subordinate to such High Courts shall have exclusive jurisdiction in respect of any disputes relating to the tendering process, award of Contract and execution of the Contract.</p> <p>7.2. In all cases, this contract shall be governed by and interpreted in accordance with the Law of the Union Of India. In this context, the expression 'Law' takes within it's fold Statutory law, Judicial Decisional Law and Delegated Legislation as well</p>
8. Settlement of Disputes	<p>8.1. The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.</p> <p>8.2. If the parties fail to resolve such a dispute (The date of commencement of the dispute shall be taken from the date when this clause reference is quoted by either party in a formal communication clearly mentioning existence of dispute or as mutually agreed) or difference by mutual consultation within twenty-eight (28) days from the commencement of such consultation, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the SCC.</p>
9. Scope of Work	<p>9.1. The Goods and Related Services to be supplied are specified in Appendix-L. At the time of awarding the contract, the Purchaser shall specify any change in the Scope of Work. Such changes may be due for instance, if the quantities of goods and related services are increased or decreased at the time of award.</p> <p>9.2. Unless otherwise stipulated in the Contract, the Scope of Work shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Delivery and Completion of the Goods and Related Services as if such items were expressly mentioned in the Contract.</p>
10. Delivery	<p>10.1. Subject to GCC Sub-Clause 32.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Implementation Schedule specified in the Appendix-N. The details of shipping and other documents to be furnished by the Supplier are specified in the SCC.</p>
11. Supplier's Responsibilities	<p>11.1. The Supplier shall supply all the Goods and Related Services included in the Scope of Work and Appendix-L in accordance with GCC Clause 9, and the Implementation Schedule, as per GCC</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	Clause 10.
12. Purchaser's Responsibilities	<p>12.1. Whenever the supply of Goods and Related Services requires that the Supplier obtain permits, approvals, and import and other licenses from local public authorities, the Purchaser shall, if so required by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner.</p>
	<p>12.2. The Purchaser shall bear all costs involved in the performance of its responsibilities, in accordance with GCC Sub-Clause 13.1.</p> <p>12.3. The Chief Information Officer (CIO) of Tamil Nadu Electricity Board or any other person designated by the utility shall act as the nodal point for implementation of the contract and for issuing necessary instructions, approvals, commissioning, acceptance certificates, payments etc. to the Supplier.</p> <p>12.4. The CIO of Tamil Nadu Electricity Board or any other person designated by the utility shall approve all such documents within 15 working days.</p> <p>12.5. Purchaser may provide on Supplier's request, particulars/ information / or documentation that may be required by the Supplier for proper planning and execution of Scope of Work under this contract.</p> <p>12.6. Purchaser shall provide to the Supplier sitting space and infrastructure and utilities, in the Purchaser's offices at such location as may be mutually decided by the Parties.</p>
13. Contract Price	<p>13.1. The Contract Price shall be as specified in the Agreement subject to any additions and adjustments thereto, or deductions there from, as may be made pursuant to the Contract as also subject to provisions of Clause 13.2.</p>
	<p>13.2. Prices charged by the Supplier for the Goods delivered and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in the SCC.</p>
14. Terms of Payment	<p>14.1. The Contract Price shall be paid in the manner specified in the SCC. No invoice for extra work/change order on account of change order will be submitted by the Supplier unless the said extra work /change order has been authorized/approved by the Purchaser in writing.</p>
	<p>14.2. The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, accompanied by</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	the documents submitted pursuant to GCC Clause 10.
	<p>14.3. Payments shall be made promptly by the Purchaser, no later than forty five (45) days after submission of an invoice or request for payment by the Supplier, and the Purchaser has accepted it.</p> <p>14.4. If any excess payment has been made by the Purchaser due to difference in quoted price in proposal and Supplier's invoice, the purchaser may without prejudice to its rights recover such amounts by other means after notifying the Supplier or deduct such excess payment from any payment subsequently falling due to the Supplier.</p> <p>14.5. The currency in which payment shall be made to the supplier under this contract is Indian Rupees (INR).</p>
15. Taxes and Duties	<p>15.1. The prices quoted by the supplier shall be inclusive of all duties/taxes/levies. Responsibility for including all applicable taxes/duties/levies in the proposal lie with the bidder and the utility shall not be responsible for any error/omission on the part of the bidder. Payment of taxes/duties/levies shall not be made separately.</p> <p>15.2. For goods supplied from outside the Purchaser's country, the Supplier shall be entirely responsible for all taxes, duties, stamp duties, license fees, and other such levies imposed outside the Purchaser's country.</p>
	<p>15.3. For goods supplied from within the Purchaser's country, the Supplier shall be entirely responsible for all taxes, duties, entry tax, license fees, other levies etc, incurred until delivery of the Goods and Related service to the Purchaser. The Purchaser will provide Central sales tax Form C, whenever applicable.</p> <p>15.4. The cost of Entry Tax as applicable will be the liability of the Supplier i.e. the price quoted will be inclusive of Entry Tax. The amount of Entry Tax will be deducted from the Supplier's invoice and remittance to tax dept. will be made by the Purchaser under the TIN number of Purchaser. If any liability is raised by the commercial tax department, Govt. of Tamil Nadu on account of Entry Tax at a later date, the same shall be to the Supplier's account and accordingly recovery shall be made from the supplier's pending bills/security deposit as available with the Purchaser.</p>
16. Performance Security	<p>16.1. The Supplier shall, within fourteen (14) days of the notification of Contract award, provide a Performance Security for the due performance of the Contract in the amounts and currencies specified in the SCC.</p>
	<p>16.2. The Purchaser shall at its sole discretion invoke the Performance Security and appropriate the amount secured thereunder, in the event</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>that the Supplier commits any delay or default in Delivery of the Goods or Related Services or commits any other breach of the terms and conditions of the Contract.</p>
	<p>16.3. The Performance Security shall be denominated in the currencies of the Contract, and shall be in one of the forms stipulated by the Purchaser in the SCC.</p>
	<p>16.4. The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than fourteen (14) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in the SCC.</p>
<p>17. Intellectual Property</p>	<p>17.1. Purchaser shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all Source code, Object code, records, reports, designs, application configurations, data and written material, products, specifications, reports, drawings and other documents which have been newly created and developed by the Supplier solely during the performance of Related Services and for the purposes of inter-alia use or sub-license of such Services under this Contract. The Supplier undertakes to disclose all such Intellectual Property Rights arising in performance of the Related Services to the Purchaser and execute all such agreements/documents and file all relevant applications, effect transfers and obtain all permits and approvals that may be necessary in this regard to effectively transfer and conserve the Intellectual Property Rights of the Purchaser. To the extent that Intellectual Property Rights are unable by law to so vest, the Supplier assigns those Intellectual Property Rights to Purchaser on creation.</p> <p>17.2. The Supplier shall be obliged to ensure that all approvals, registrations, licenses, permits and rights etc. which are inter-alia necessary for use of the goods supplied / installed by the Supplier, the same shall be acquired in the name of the Purchaser, and the same may be assigned by the Purchaser to the Supplier solely for the purpose of execution of any of its obligations under the terms of this Contract. However, subsequent to the term of this Contract, such approvals, registrations, licenses, permits and rights etc. shall endure to the exclusive benefit of the Purchaser.</p> <p>17.3. The Supplier shall ensure that while it uses any software, hardware, processes, document or material in the course of performing the Services, it does not infringe the Intellectual Property Rights of any person and the Supplier shall keep the Purchaser indemnified against all costs, expenses and liabilities howsoever, arising out any illegal or unauthorized use (piracy) or in connection with any claim or proceedings relating to any breach or</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>violation of any permission/license terms or infringement of any Intellectual Property Rights by the Supplier or its personnel during the course of performance of the Related Services. In case of any infringement by the Supplier, the Supplier shall have sole control of the defense and all related settlement negotiations</p> <p>17.4. Subject to sub-clauses 17.1 to 17.3, the Supplier shall retain exclusive ownership of all methods, concepts, algorithms, trade secrets, software documentation, other intellectual property or other information belonging to the Supplier that existed before the effective date of the contract. .</p>
<p>18. Confidential Information</p>	<p>18.1. Both parties undertake to each other to keep confidential all information (written as well as oral) concerning the business and affairs of the other, which has been obtained or received as a result of the discussions leading upto or the entering of the contract</p> <p>18.2. After the entering of the contract the Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under this Clause.</p>
	<p>18.3. The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the Contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the design, procurement, or other work and services required for the performance of the Contract.</p>
	<p>18.4. The obligation of a party under GCC Sub-Clauses 18.1 and 18.2 above, however, shall not apply to information that:</p> <p>18.4.1. the Purchaser or Supplier need to share with the institutions participating in the financing of the Contract;</p> <p>18.4.2. now or hereafter enters the public domain through no fault of that party;</p> <p>18.4.3. can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or</p> <p>18.4.4. Otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.</p>
	<p>18.5. The above provisions of GCC Clause 18 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>18.6. Each of the parties to this contract, undertakes to the other to take all such steps as shall from time to time be necessary to ensure compliance with the provisions of the above clauses by it's employees, agents and sub-contractors.</p> <p>18.7. The provisions of GCC Clause 18 shall survive completion or termination, for whatever reason, of the Contract.</p>
19.Subcontracting	<p>19.1. Except as provided hereunder under Clause 19.2 of the GCC, the Supplier shall not be permitted to sub-contract any part of its obligations under the Contract.</p> <p>19.2. Supplier shall sub-contract the Network solution provider (NSP) role and GIS solution provider (GSP) role only from the empanelled members (as per the list issued/updated by the Nodal Agency). Supplier shall have flexibility to subcontract Meter Data Acquisition Solution Provider (MDASP) role, as per his requirement. In case Supplier decides to subcontract MDASP role, the MDASP subcontractor shall only be selected from the empanelled list of MDASP (as per the list issued/updated by the Nodal Agency).</p> <p>19.3. The Supplier shall select the sub-contractors from the empanelled list only. The names and roles of the same shall be clearly mentioned in the proposal/bid.</p> <p>19.4. The Supplier shall ensure that the sub contractor appointed has sufficient capacity to undertake the execution of the tasks they will perform under this Contract.</p> <p>19.5. The Supplier indemnifies and shall keep indemnified Purchaser against any losses, damages, claims or such other implications arising from or out of the acts and omissions of such subcontractor. The Supplier shall be responsible for making all payments to the subcontractor as may be necessary, in respect of any Services performed or task executed, and the Purchaser shall not be responsible for any part or full payment which is to due to such subcontractor.</p> <p>19.6. All rights of use of any process, product, service or facility developed or any other task performed by the subcontractor for the Supplier, under this contract would lie exclusively with the Purchaser in perpetuity free from all liens, encumbrances and other third party rights and the Supplier shall, wherever required, take all steps that may be necessary to ensure the transfer of such ownership in favor of the Purchaser.</p> <p>19.7. Nothing in this clause 19 of the GCC shall relieve the Supplier from its any of its liabilities or obligations under this Contract. The Purchaser reserves the right to hold Supplier liable for any act/omission of any subcontractor.</p> <p>19.8. Where the Purchaser deems necessary, it shall have the right to require replacement of any subcontractor with another</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>subcontractor and the Supplier shall in such case terminate forthwith all agreements/contracts other arrangements with such subcontractor and find suitable replacement for such subcontractor to the satisfaction of the Purchaser at no additional charge, from the empanelled list (as per the list issued/updated by the Nodal Agency). Failure to terminate all agreements/contracts with such sub-contractors, shall amount to a breach of the terms hereof.</p> <p>19.9. The Supplier shall be responsible for ensuring that the Subcontractor shall comply with all relevant and applicable provisions of the Contract. In default on the part of the subcontractor to comply with the terms and conditions of the Contract wherever applicable, shall amount to breach on the part of the Supplier, and the Purchaser in addition to all other rights, have the right to claim damages add recover from the Supplier all losses/ or other damages that may have resulted from such failure</p>
<p>20. Specifications and Standards</p>	<p>20.1. Technical Specifications and Drawings</p> <p>20.1.1. The Supplier shall ensure that the Goods and Related Services comply with the technical specifications and other provisions of the Contract.</p> <p>20.1.2. The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.</p> <p>20.1.3. The Goods and Related Services supplied under this Contract shall conform to the standards mentioned in Section VI, Scope of Work and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods.</p>
	<p>20.2. Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Section VI, Scope of Work. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 31.</p>
<p>21. Packing and Documents</p>	<p>21.1. The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	shall take into consideration, where appropriate, the remoteness of the final destination of the Goods and the absence of heavy handling facilities at all points in transit. The Purchaser shall not be responsible in any manner for any loss or damage caused to the Goods during Transit.
	21.2. The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract and in any other instructions ordered by the Purchaser.
22. Insurance	22.1. The Goods supplied under the Contract shall be fully insured by the Supplier, in INR, against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the SCC.
23. Transportation	23.1. Obligations for transportation of the Goods shall be borne by the Supplier and shall be in accordance with the Incoterms specified in Sections VI, Schedule of Supply.
24. Inspections and Tests	24.1. The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of to ensure that the Goods and Related Services are complying with the functional parameters, codes and standards specified in the Scope of Work at Section VI, to the satisfaction of the Purchaser.
	24.2. The inspections and tests may be conducted on the premises of the Supplier, at point of delivery, and/or at the final destination of the Goods, or in another place in the Purchaser's country as per the requirement of Section VI. Subject to GCC Sub-Clause 24.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.
	24.3. The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 24.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
	24.4. Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser.
	24.5. The Purchaser may require the Supplier to carry out any test and/or inspection to verify that the characteristics and performance of the Goods or Related Services comply with the technical specifications, codes and standards under the Contract.
	24.6. The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
	24.7. The Purchaser may reject any Goods / Related Services or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods/ Related Services or parts thereof or



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 24.4.
	24.8. The Supplier agrees that neither the execution of a test and/or inspection of the Goods / Related Services or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 24.6, shall release the Supplier from any warranties or other obligations under the Contract.
25. Liquidated Damages and Penalty	<p>25.1. Except as provided under GCC Clause 30, if the Supplier fails to deliver any or all of the Goods or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5% of the value of the Goods or Related Services, supplied beyond stipulated delivery schedule for each week or part thereof of delay until actual delivery or performance, subject to a maximum of 10% of value of such goods and services.</p> <p>25.2. In addition, the Supplier is liable to the Purchaser for payment penalty as specified in the SLA.</p> <p>25.3. If the Goods and Related Services supplied do not meet the minimum specifications as per the Contract, and the same is not replaced/modified by the Supplier to meet the requirements within 14 days of being informed by the Utility, the Utility shall be free to impose any penalty as deemed fit. In addition, the Utility shall reserve the right to terminate the contract and recover liquidated damages by forfeiting the performance guarantee submitted by the Purchaser.</p>
26. Warranty	26.1. The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
	26.2. Subject to GCC Sub-Clause 20.1, the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
	26.3. The warranty shall remain valid for the period Specified in the SCC.
	26.4. The Purchaser shall give Notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>26.5. Upon receipt of such Notice, the Supplier shall, within the period specified in the SCC, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.</p>
	<p>26.6. If having been notified, the Supplier fails to remedy the defect within the period of warranty specified in the SCC; the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.</p>
<p>27. Liability/ Indemnity</p>	<p>27.1. The Supplier hereby agrees to indemnify the Purchaser, for all conditions and situations mentioned in this clause, in a form and manner acceptable to the Purchaser. The supplier agrees to indemnify the Purchaser and its officers, servants, agents ("Purchaser Indemnified Persons") from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of:</p> <ul style="list-style-type: none">(a) any negligence or wrongful act or omission by the Supplier or its agents or employees or any third party associated with Supplier in connection with or incidental to this Contract; or(b) any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied Goods and Related Services or any part thereof. <p>27.2. The Supplier shall also indemnify the Purchaser against any privilege, claim or assertion made by third party with respect to right or interest in, ownership, mortgage or disposal of any asset, property, movable or immovable as mentioned in any Intellectual Property Rights, licenses and permits</p> <p>27.3. Without limiting the generality of the provisions of this clause 27.1 and 27.2, the Supplier shall fully indemnify, hold harmless and defend the Purchaser Indemnified Persons from and against any and all suits, proceedings, actions, claims, demands, liabilities and damages which the Purchaser Indemnified Persons may hereafter suffer, or pay by reason of any demands, claims, suits or proceedings arising out of claims of infringement of any domestic or foreign patent rights, copyrights or other intellectual property, proprietary or confidentiality rights with respect to any Goods, Related Services, information, design or process supplied or used by the Supplier in performing the Supplier's obligations or in any way incorporated in or related to the Project. If in any such suit, action, claim or proceedings, a temporary restraint order or preliminary injunction is granted, the Supplier shall make every reasonable effort, by giving a satisfactory bond or otherwise, to secure the suspension of the injunction or restraint order. If, in any such suit, action, claim or proceedings, the Goods or Related</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>Services, or any part thereof or comprised therein, is held to constitute an infringement and its use is permanently enjoined, the Supplier shall promptly make every reasonable effort to secure for the Purchaser a license, at no cost to the Purchaser, authorizing continued use of the infringing work. If the Supplier is unable to secure such license within a reasonable time, the Supplier shall, at its own expense, and without impairing the specifications and standards, either replace the affected work, or part, or process thereof with non-infringing work or part or process, or modify the same so that it becomes non-infringing.</p> <p>Survival on Termination</p> <p>The provisions of this Clause 27 shall survive Termination.</p>
	<p>27.4. Defense of Claims:</p> <p>27.4.1. If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 27.1, 27.2, or 27.3 the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.</p> <p>27.4.2. If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf</p> <p>27.4.3. The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing</p>
<p>28. Limitation of Liability</p>	<p>28.1. Except in cases of gross negligence or willful misconduct :</p> <p>28.1.1. neither party shall be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser; and</p> <p>28.1.2. the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort, or otherwise, shall not exceed the amount specified in the Contract Price. Provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	obligation of the Supplier to indemnify the Purchaser with respect to patent infringement.
29. Change in Laws and Regulations	29.1. Unless otherwise specified in the Contract, if after the date of the Invitation for Bids, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of the Purchaser's country where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date, then such Delivery Date shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. .
30. Force Majeure	30.1. The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
	30.2. For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to wars or revolutions, earthquake, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
	30.3. If a Force Majeure situation arises, the Supplier shall promptly and no later than seven days from the first occurrence thereof, notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event
	30.4. The decision of the Purchaser with regard to the occurrence, continuation, period or extent of Force Majeure shall be final and binding on the Supplier.
31. Change Orders and Contract Amendments	31.1. The Purchaser may at any time order the Supplier through Notice in accordance GCC Clause 6, ("Change Order") to make changes within the general scope of the Contract in any one or more of the following: 31.1.1. drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>for the Purchaser;</p> <p>31.1.2. Specifications for hardware, software and Related Services</p> <p>31.1.3. the method of shipment or packing;</p> <p>31.1.4. the place of delivery; and</p> <p>31.1.5. the Related Services to be provided by the Supplier.</p>
	<p>31.2. If any such Change Order causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery and Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Purchaser's Change Order.</p>
	<p>31.3. No variation or modification of the terms of the contract shall be made except by written amendment signed by the parties.</p>
32. Extensions of Time	<p>32.1. If at any time during performance of the Contract, the Supplier or its Subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 10, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.</p>
	<p>32.2. Except in case of Force Majeure, as provided under GCC Clause 30 or where the delay in delivery of the Goods or completion of Related Services is caused due to any delay or default of the Purchaser, any extension granted under clause 32.1 shall not absolve the Supplier from its liability to the pay of liquidated damages pursuant to GCC Clause 25.</p>
33. Termination	<p>33.1. Termination for Default</p> <p>33.1.1. The Purchaser may, without prejudice to any other remedy for breach of Contract, by Notice of default sent to the Supplier, terminate the Contract in whole or in part:</p> <p>(i) if the Supplier fails to deliver any or all of the Goods or Related Services within the period specified in the</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 32; or</p> <ul style="list-style-type: none">(ii) if the Supplier, in the judgment of the Purchaser has engaged in corrupt, fraudulent, collusive, or coercive practices, as defined in GCC Clause 2, in competing for or in executing the Contract; or(iii) Any representation made by the bidder in the proposal is found to be false or misleading(iv) if the Supplier commits any breach of the Contract and fails to remedy or rectify the same within the period of two weeks (or such longer period as the Purchaser in its absolute discretion decide) provided in a notice in this behalf from the Purchaser.(v) as specified in the SLA <p>33.1.2. In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 33.1.1, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.</p>
	<p>33.2. Termination for Insolvency</p> <p>The Purchaser may at any time terminate the Contract by giving Notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser.</p>
	<p>33.3. Termination for Convenience</p> <p>33.3.1. The Purchaser, by Notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The Notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.</p> <p>33.3.2. The Goods that are complete and ready for shipment</p>



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	<p>within twenty-eight (28) days after the Supplier's receipt of the Notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:</p> <p>(i) To have any portion completed and delivered at the Contract terms and prices; and/or</p> <p>(ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.</p> <p>33.4. Consequences of Termination</p> <p>Upon Termination of the Contract, the Supplier shall:</p> <p>(i) Prepare and present a detailed exit plan within five calendar days of termination notice receipt to the CIO of Tamil Nadu Electricity Board ("Exit Plan").</p> <p>(ii) The CIO and along with designated team will review the Exit plan. If approved, Supplier shall start working on the same immediately. If the plan is rejected, Supplier shall prepare alternate plan within two calendar days. If the second plan is also rejected, CIO or the authorised person will provide a plan for Supplier and it should be adhered by in totality.</p> <p>(iii) The Exit Plan should cover at least the following :-</p> <p>a. Execute all documents that may be necessary to effectively transfer the ownership and title, including OEM warranties in respect of all equipment;</p> <p>b. Handover all developed codes, related documentation and other Configurable Items, if any in his possession;</p> <p>c. Handover the list of all IT Assets, passwords at all locations to the Purchaser.</p> <p>(iv) The supplier and CIO (or the authorised person) will sign a completion certificate at the end of successful completion (all points tracked to closure) of the Exit Plan.</p>
<p>34. Assignment</p>	<p>34.1. The Supplier shall not assign, in whole or in part, their obligations under this Contract.</p>
<p>35. Disclaimer</p>	<p>35.1. Purchaser reserves the right to share, with any consultant of its choosing, any resultant Proposals in order to secure expert opinion.</p>



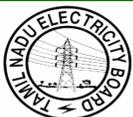
TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	35.2. Purchaser reserves the right to accept any proposal deemed to be in the best interest of the Tamil Nadu Electricity Board.
36. Public Disclosure	<p>36.1. All materials provided to the Purchaser by bidder are subject to Country and Tamil Nadu public disclosure laws such as RTI etc.</p> <p>36.2. The Supplier's Team shall not make or permit to be made a public announcement or media release about any aspect of this Contract unless the Purchaser first gives the Supplier its written consent.</p>
37. SLA Audit	37.1. A designated team / person from Tamil Nadu Electricity Board will review the performance of Supplier against the SLA each month. The review / audit report will form basis of any action relating to imposing penalty on or breach of contract of the Supplier.
38. Adherence to safety procedures, rules regulations and restriction	<p>38.1. Supplier shall comply with the provision of all laws including labour laws, rules, regulations and notifications issued there under from time to time. All safety and labour laws enforced by statutory agencies and by Purchaser shall be applicable in the performance of this Contract and Supplier's Team shall abide by these laws.</p> <p>38.2. Access to the Datacenter Sites and Purchaser's locations shall be strictly restricted. No access to any person except the essential personnel belonging to the Supplier who are genuinely required for execution of work or for carrying out management/maintenance who have been explicitly authorised by the Purchaser shall be allowed entry to the Datacenter Sites and some Purchaser's locations. Even if allowed, access shall be restricted to the pertaining equipment of the Purchaser only. The Supplier shall maintain a log of all activities carried out by each of its personnel.</p> <p>38.3. The Supplier shall take all measures necessary or proper to protect the personnel, work and facilities and shall observe all reasonable safety rules and instructions. Supplier's Team shall adhere to all security requirement/regulations of the Purchaser during the execution of the work. Purchaser's employee also shall comply with safety procedures/policy.</p> <p>38.4. The Supplier shall report as soon as possible any evidence, which may indicate or is likely to lead to an abnormal or dangerous situation and shall take all necessary emergency control steps to avoid such abnormal situations.</p> <p>38.5. The Purchaser will be indemnified for all the situations mentioned in this clause in the similar way as defined in GCC clause 28.</p>
39. Non-Solicitation of	39.1. For the purpose of this contract, both parties to this contract agree, not to solicit either directly or indirectly with a view to



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Staff	provide or offer employment to, offer to contract with or entice a staff member of the other party to leave without the consent of the other during the term of this agreement and for an additional period of 180 days after termination
40. Survival	40.1. The clauses of this contract, which by nature are intended to survive termination of this contract, shall remain in effect after such termination
41. Deviation in Quantity	41.1. The evaluation will be made on the overall cost of the items and quantities mentioned in the RFP. However, while placing the order, or during the execution, the utility reserves the right to modify the quantities of individual items to the extent of +/- 20% of quantity mentioned in the BoQ subject to within a range of 10% of the value of the overall project cost.



Section VIII. Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC 1.1(j)	The Purchaser's country is: The Union Of India
GCC 1.1(k)	The Purchaser is: Tamil Nadu Electricity Board, India
GCC 1.1 (q)	The web-site is: www.tneb.in . The details regarding the RFP process shall be available on the same. The eligible bidders should visit the website from time to time and get the status updates. All details uploaded on the website from time to time shall be deemed to have been provided to all the bidders.
GCC 3.2	The version of Incoterms shall be: Incoterms 2000
GCC 4.1	The language shall be: English
GCC 6.1	For <u>notices</u> , the Purchaser's contact details shall be: <u>Chief Engineer (Planning & RC)</u> <u>6th Floor, Eastern Wing</u> <u>TNEB, Corporate Office,</u> <u>144, Anna Salai, NPKRR Maligai,</u> <u>Chennai - 600 002</u> <u>Phone: 044 28520803</u> <u>Fax: 044 28521322</u> <u>Email: ceplg@tnebnet.org</u>
GCC 7.1	The governing law shall be: Laws applicable in exclusive jurisdiction of The High Court Of Judicature at <u>Chennai</u> , India and all courts subordinate to it's exclusive Jurisdiction.
GCC 8.2	The formal mechanism for the resolution of disputes shall be: If the parties fail to resolve such a dispute or difference by mutual consultation within twenty-eight (28) days from the commencement of such dispute and difference, either party may require that the dispute be referred for resolution to the formal mechanisms, described below (The date of commencement of the dispute shall be taken from the date when this clause reference is quoted by either party in a formal communication clearly mentioning existence of dispute or as mutually agreed) : a. The mechanism for resolution of disputes for bidders shall be in accordance with the Indian Arbitration and Conciliation Act of 1996. The Arbitral Tribunal shall consist of 3 (Three) Arbitrators. Each Party shall nominate an Arbitrator and the two nominated Arbitrators shall mutually agree and nominate a third



Tamil Nadu Electricity Board
RFP Document for Appointment of IT Implementation Agency

	<p>Presiding Arbitrator.</p> <p>b. The Arbitrators shall necessarily be retired High Court Judges and the umpire shall be a retired Chief Justice.</p> <p>c. The place for arbitration shall be Chennai</p>
GCC 10.1	<p>Details of shipping and documents to be furnished by the Supplier shall be: FOR GOODS SUPPLIED FROM ABROAD AS PER INCOTERMS CIF :</p> <p>Upon shipment, the Supplier shall notify the Purchaser and the Insurance Company by telex or fax the full details of the shipment (Consignment through air is also possible), including Contract number, description of Goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge, etc. The Supplier shall send the following documents to the Purchaser, with a copy to the Insurance Company.</p> <p>(a) Copy of the Supplier's invoice showing the description of the Goods, quantity, unit CIF price and total amount;</p> <p>(b) Copy of on-board bill of lading marked "freight prepaid".</p> <p>(c) Copy of the packing list identifying contents of each lot.</p> <p>(d) Insurance certificate;</p> <p>(e) Copy of test certificate approval and dispatch instructions issued by the purchaser (combined or separately).</p> <p>(f) Certificate of Origin.</p> <p>(g) Manufacturer's or supplier's Warranty Certificate</p> <p>The Purchaser shall receive the above documents at least two weeks before arrival of the Goods at the port or place of arrival and, if not received, the Supplier will be responsible for any consequent expenses.</p> <p>For goods from within the Purchaser's country as per INCOTERMS EXW basis including freight and insurance charges:</p> <p>Upon delivery of the Goods to the transporter, the Supplier shall notify the Purchaser and send the following documents to the Purchaser;</p> <p>a) Copy of the Supplier's invoice showing the description of the Goods, quantity, unit Ex-works price and total amount;</p> <p>b) Copy of Motor Transport Receipt (MTR) of a transport contractor approved by Indian Bankers Association or material receipt certificate from consignee.</p> <p>c) Copy of test certificate approval and dispatch instructions issued by the purchaser combined or separately.</p> <p>d) Copy of packing list identifying contents of each lot.</p> <p>e) Insurance certificate;</p> <p>f) Certificate of Origin.</p> <p>g) Manufacturer's or supplier's Warranty Certificate</p>



Tamil Nadu Electricity Board

RFP Document for Appointment of IT Implementation Agency

	<p>The Purchaser shall receive the above documents before the arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.</p>
GCC 13.2	<p>The price adjustment shall be:</p> <p>The bidders may please note that the prices are upward/downward Adjustable. Purchaser reserves the right to review and negotiate the charges payable at any time to incorporate downward revisions as applicable and necessary, including due to lowering of any applicable taxes, duties and any other statutory levies.</p> <p>Prices shall not be subject to any upward/downward revision on any account whatsoever throughout the period of contract. Provided that any revision in taxes, statutory levies, duties which is not occasioned due to any change in place, method and time of supply or non-performance / non-fulfillment of any condition of any exemption considered by the vendor at the time of proposal, shall be considered for price adjustments.</p> <p>The utility reserves the right to increase or decrease the number of towns under the contract subject to the limit of 30% of the number of towns covered under the contract. It is clarified that this increase or decrease of 30% shall not entitle either party to claim revision of the unit price of the goods supplied.</p> <p>In case of services where lump-sum prices are quoted, the increase or decrease of 30% of the number of towns shall be subject to mutual negotiations.</p>
GCC 14.1	<p><u>General terms and conditions of Payment Schedule</u></p> <ol style="list-style-type: none">1) All payments shall be made by the Purchaser in favour of the Supplier (System Integrator)2) The release of payments will be Performance (output) based, where the payments are made for measured deliverables and outputs. The SLAs will govern the penalty and reductions from payments for inferior deliverables.3) Payments made under the Contract shall be intimated to MOP/PFC in accordance with the terms and conditions of the financing agreement between the Purchaser and the MoP, and will be subject in all respects to the terms and conditions of that financing/Loan Agreement4) System Integrator should obtain completion certificate for each project area from the utility and raise an invoice against the same.5) Payments against invoice submitted (accompanied with all requisite documents) shall be released within 45 days of submission of invoice.6) System Integrator needs to ensure completion of all works for a project area (town) before submitting the invoice. This includes supply of required hardware, software, customization, installation and commissioning. In addition others activities like field survey, integration of identified legacy systems etc. shall also be completed. Payments shall be made town wise and approved only after the entire scope of work for a town is completed. In case even part of the work is pending (applications or hardware or networking etc.) payment for that town shall not be made.7) Cost of setting up the data centre (including all hardware and implementation cost) should be mentioned separately.



Tamil Nadu Electricity Board

RFP Document for Appointment of IT Implementation Agency

- 8) In case go-live of any project area/data centre is delayed, the entire cost and/or time over-run shall be the responsibility of the Supplier and shall be borne by him only.
- 9) Power to withhold: Notwithstanding anything contained in the payment schedule mentioned below, if in the opinion of the Purchaser, any work done or supply made or service rendered by Supplier is deficient in any manner in comparison to the prescribed standards, Purchaser shall be at liberty to withhold a reasonable portion of the payments due to the Supplier, till such work/ supply/ service is made confirming to the prescribed standards. These powers to withhold payments shall be without prejudice to any other power/ right of the purchaser under this contract.
- 10) All payments for Facilities Management Services (FMS) shall only be made after submission of the Audit reports (in original) which shall be submitted by the Supplier along with the invoices and acceptance of the same by the Purchaser.

Payment Schedule

Phase	Activity	Payment Schedule	Milestones
Advance Payment		10 % of Project Cost (excluding FMS)	On Issuance of Letter of Award by Utility & team mobilisation by Vendor
Data Centre (DC)	Data Centre Design	5% of cost quoted for Data centre	On submission & approval of High Level Design, Low Level Design
	Installation, Commissioning & Configuration of Hardware, Networks & Operating System	25% of cost quoted for Data centre	On System testing by Vendor & management confirmation that material is received & commissioned as per the Work order
	Installation, Configuration & Customisation of Application Software	20% of cost quoted for Data centre	On System testing by Vendor & management confirmation that software is installed & running as per the Work order
	User Acceptance testing	30% of cost quoted for Data centre 15% of Project management cost	On Management approval of User Acceptance testing, established through operational connectivity of project areas of all utilities of



Tamil Nadu Electricity Board

RFP Document for Appointment of IT Implementation Agency

				state, Disaster Recovery centre, central customer care centre, etc. with the data centre
	Disaster Recovery Centre (DRC)	Disaster Recovery Centre Design	5% of cost quoted for Disaster Recovery centre	On submission & approval of High Level Design, Low Level Design
		Installation, Commissioning & Configuration of Hardware, Networks & Operating System	25% of cost quoted for Disaster Recovery centre	On System testing by Vendor & management confirmation that material is received & commissioned as per the Work order
		Installation, Configuration & Customisation of Application Software	20% of cost quoted for Disaster Recovery centre	On System testing by Vendor & management confirmation that software is installed & running as per the Work order
		User Acceptance testing	30% of cost quoted for Disaster Recovery centre 5% of Project management cost	On Management approval of User Acceptance testing, established through operational connectivity of data centre with the Disaster Recovery centre
	Customer Care Centre (CC)	Customer Care Centre Design	5% of cost quoted for Customer Care centre	On submission & approval of High Level Design, Low Level Design
		Installation, Commissioning & Configuration of Hardware, Networks & Operating System	25% of cost quoted for Customer Care centre	On System testing by Vendor & management confirmation that material is received & commissioned as per the Work order



Tamil Nadu Electricity Board
RFP Document for Appointment of IT Implementation Agency

		Installation, Configuration & Customisation of Application Software	20% of cost quoted for Customer Care centre	On System testing by Vendor & management confirmation that software is installed & running as per the Work order
		User Acceptance testing	30% of cost quoted for Customer care centre 10% of Project management cost	On Management approval of User Acceptance testing, established through operational connectivity of project areas with the central customer care centre, etc.
	Sub-Division Office	Infrastructure Design	5% of cost quoted for SDO	On submission & approval of High Level Design, Low Level Design
		DGPS Survey Results	80% of DGPS Cost (divided by number of project areas covered)	On Submission of DGPS Survey results & approval (project area wise)
		Installation, Commissioning & Configuration of Hardware, Networks & Operating System	25% of cost quoted for SDO	On System testing by Vendor & management confirmation that material is received & commissioned as per the Work order
		Installation, Configuration & Customisation of Application Software	15% of cost quoted for SDO	On System testing by Vendor & management confirmation that software is installed & running as per the Work order
		Integration with legacy applications & Data Centre network	5% of cost quoted for SDO 5% of Project management cost	On Management approval that the systems are integrated with Data Centre & legacy apps



Tamil Nadu Electricity Board

RFP Document for Appointment of IT Implementation Agency

		User Acceptance testing	30 % of cost quoted for SDO 5% of Project management cost	On Management approval of User Acceptance testing
		User Training	5% of Project management cost	On User Training as confirmed by Management
	Other offices	Infrastructure Design	5% of cost quoted for individual offices	On submission & approval of High Level Design, Low Level Design
		Installation, Commissioning & Configuration of Hardware, Networks & Operating System	25% of cost quoted for individual offices	On System testing by Vendor & management confirmation that material is received & commissioned as per the Work order
		Installation, Configuration & Customisation of Application Software	15% of cost quoted for individual offices	On System testing by Vendor & management confirmation that software is installed & running as per the Work order
		Integration with legacy applications & Data Centre network	5% of cost quoted for SDO 5% of Project management cost	On Management approval that the systems are integrated with Data Centre & legacy apps
		User Acceptance testing	30% of cost quoted for individual offices 20% of Project management cost (divided by number of offices covered)	On Management approval of User Acceptance testing
		User Training	10 % of Project management cost (divided by number of offices covered)	On User Training as confirmed by Management



Tamil Nadu Electricity Board

RFP Document for Appointment of IT Implementation Agency

	After Completion		10 % of Project Cost (excluding FMS)	After 3 months of Go-Live date, based on management confirmation that system is meeting the performance requirements as specified in Work order
<p><u>End of Contract:</u> Payment of the balance 10% of the contract value (except the FMS cost) will be made after three months of successful running of the system. The payment may be released earlier provided the supplier submits the Bank Guarantee (BG) for an amount equivalent to 20% of contract value. This BG shall remain in force up to and including 6 months after warranty period.</p> <p><u>Facilities Management Services:</u> Cost for support and maintenance will be payable quarterly during the 5 years support and maintenance period from the date of “Enterprise wide rollout - go live date”. Quarterly installments will be 1/20th of the total IT support and maintenance cost. Payments will be subject to the Audit reports for that quarter. The payment will be with reference to the cost mentioned in Appendix D.3.</p>				
GCC 14.5	The currencies for payments shall be in Indian Rupees (INR).			
GCC 16.1	The Supplier shall provide Performance Security of ten (10) percent of the total Contract Price. The currency and amount of Performance Security shall be specified at the time of awarding the contract to successful bidder.			
GCC 16.3	The Performance Security shall be in the form of Bank Guarantee issued by a Scheduled Bank as notified by Reserve Bank of India.			
GCC 21.2	The packing, marking and documentation within and outside the packages if applicable shall be: As specified (if any) in Technical Specification			
GCC 22.1	The insurance coverage: Goods supplied under the contract shall be also fully insured on all risk basis during inland transit up to destination store in the purchaser’s country. The supplier must insure the Goods in an amount equal to 110% of CIF/EXW price of Goods.			
GCC 26.3	The period of validity of the warranty shall be 36 (Thirty Six) months from the date of commissioning or 42 (forty two) months from date of delivery at Purchaser’s stores whichever is earlier.			



Tamil Nadu Electricity Board

RFP Document for Appointment of IT Implementation Agency

GCC 26.5

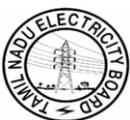
In case any damage or defect is found during verification after receipt of material at Purchaser's stores or material develops defects within warranty period, the supplier shall attend/replace such defects free of all charges within 30 days of being notified by the Purchaser, of the occurrence of such defects. In case the defect is not attended or replacement of material is not received within specified period, then apart from encashing the performance security deposit, the Purchaser may also take suitable penal action including debarring from all future business.



Section IX. Contract Forms

Table of Forms

1	AGREEMENT	2
2	PERFORMANCE SECURITY	4



1 Agreement

THIS AGREEMENT is made on this _____ (eg. 3rd) day of _____ (eg. February), _____ (eg. 2009), between _____ of _____ (hereinafter called “the Purchaser”) which expression shall unless repugnant to the context thereof include his successors, heirs, assigns, of the one part, and _____ of _____ (hereinafter called “the Supplier”) which expression shall unless repugnant to the context thereof include his successors, heirs, assigns, of the other part.

WHEREAS the Purchaser had invited bids for certain Goods and Related Services, viz., _____ (eg. Name of bid) vide their bid document number _____, dated _____

AND WHEREAS various applications were received pursuant to the said bid

AND WHEREAS the Purchaser has accepted a Bid by the Supplier for the supply of those Goods and Related Services in the sum of _____ (hereinafter “the Contract Price”).

And in pursuance of having accepted the said bid the parties have agreed to enter into this agreement.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract referred to.
2. The following documents (collectively referred to as “Contract Documents”) shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - a) the Detailed award of contract;
 - b) the Service level agreement;
 - c) Instructions to Bidders
 - d) the Special Conditions of Contract;
 - e) the General Conditions of Contract;
 - f) the SRS document
 - g) the Scope of Work;
 - h) the Technical Specifications
 - i) the Purchaser’s Notification to the Supplier for Award of Contract;
 - j) Vendor’s response (proposal) to the RFP, including the Bid Submission Sheet and the Price Schedules submitted by the Supplier;
 - k) Appendix A to B & E to O;
 - l) Acceptance of purchaser’s notification

In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

3. In consideration of the payments to be made by the Purchaser to the Supplier as indicated in this Agreement, the Supplier hereby covenants with the Purchaser to provide the Goods and Related Services and to remedy the defects therein and bring them in conformity in all respects with the provisions of the Contract.

4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Related Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of _____ on the day, month and year indicated above.

Signed by _____ (Authorised Utility official)

Signed by _____ (for the Supplier)

Witness-1

Witness-2



2 Performance Security

(To be accompanied with the Bank Guarantee)

Date: _____

Contract Name and No. : _____

To: _____

WHEREAS _____ (hereinafter called "the Supplier") which expression shall unless repugnant to the context thereof include his successors, heirs, assigns has undertaken, pursuant to Contract No. _____ dated _____, _____ to supply _____ (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the aforementioned Contract that the Supplier shall furnish you with a security _____ issued by a reputable guarantor for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS the undersigned _____, legally domiciled in _____, (hereinafter "the Guarantor") which expression shall unless repugnant to the context thereof include his successors, heirs, assigns have agreed to give the Supplier a security:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of _____ and we undertake to pay you without protest and demur, upon your first written demand declaring the Supplier to be in default under the Contract, without cavil or argument, any sum or sums within the limits of _____ as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This security is valid until _____ hours of the _____ day of _____, _____.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the security for and on behalf of _____

Date _____



Appendices

A	APPENDIX A - MANDATORY TECHNICAL SPECIFICATIONS	5
B	APPENDIX B - TECHNICAL SPECIFICATIONS	10
C	APPENDIX C - SERVICE LEVEL AGREEMENT	11
C.1	Purpose of this Agreement.....	11
C.2	Description of Services Provided	11
C.3	Duration of SLA	11
C.4	Service Level Agreements & Targets	11
C.5	Breach of SLA.....	21
C.6	Exclusions	21
C.7	Monitoring and Auditing.....	21
C.8	Reporting Procedures	21
C.9	Issue Management Procedures	22
C.9.1	General.....	22
C.9.2	Issue Management Process.....	22
C.10	SLA Change Control.....	22
C.10.1	General.....	22
C.10.2	SLA Change Process.....	23
C.10.3	Version Control	23
C.11	Management Escalation Procedures.....	23
C.12	Signature Page.....	23
D	APPENDIX D - SUPPLIER RESPONSE FORMAT	25
D.1	General Guidelines to the bidders.....	25
D.1.1	Guidelines for Technical proposal	25
D.1.2	Guidelines for Price proposal	25
D.1.3	Submission of proposal	26
D.2	Technical Proposal	27
D.2.1	General requirements.....	27
D.2.1.1	Bid structure	27
D.2.1.2	Bidder - Company Statistics	27
D.2.2	Technical Specification requirement of Application packages	28



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

D.2.3	Hardware Technical Specifications (Including network equipments, LAN/WAN, Kiosk etc.)	29
D.2.4	Approach and Methodology	30
D.2.4.1	Understanding of Utility and its requirement	30
D.2.4.2	Details of proposed methodology	30
D.2.4.3	Project Team Structure	31
D.2.4.4	Resource planning and estimation	31
D.2.4.5	Risk planning	32
D.2.4.6	Detailed work plan with timelines	32
D.2.5	Project Experience	32
D.2.6	Team details (CVs)	33
D.2.7	Firm Detail	34
D.2.8	Facility Management Services Plan	35
D.2.9	Project Management Practices	35
D.2.10	Quality Assurance	35
D.2.11	Documentation	36
D.2.12	Deviations Sheet	36
D.3	Price proposal	38
D.3.1	Project Area with Data Centre & Customer Care Centre	38
Form 2:	Customer Care Centre cost	47
Form 3:	Sub-division Offices cost	53
Form 4:	Other Offices cost	57
Form 5:	Cost of DGPS Survey, Consumer Indexing & Asset Mapping	60
Form 6:	Project Management Cost	61
Form 7:	Disaster Recovery Centre Cost	62
D.3.2	Project Area without Data Centre & Customer Care Centre	69
D.3.3	FMS Charges	79
D.3.4	Total Cost Summary	79
D.4	Checklists	80
D.4.1	Mandatory forms that needs to be submitted	80
D.4.2	Compliance checklist	80
E	APPENDIX E - EVALUATION METHODOLOGY	82
E.1	Single-Stage: Two-Envelope Bidding Procedure	83
E.2	Evaluation and Comparison of bids	83
F	APPENDIX F - GEOGRAPHICAL & ADMINISTRATIVE INFORMATION	88
G	APPENDIX G - LIST OF OFFICES FOR WAN CONNECTIVITY	93
H	APPENDIX H - REVIEW OF CURRENT IT SYSTEMS	124
H.1	Existing solutions	124
H.2	Technical evaluation - Existing IT Solution	125
H.3	Existing Hardware	126



I	APPENDIX I - LIST OF MANUALS/BUSINESS PROCESSES TO BE CONVERTED (DATA-ENTRY) INTO ELECTRONIC FORM.....	127
J	APPENDIX J - REVIEW OF CURRENT BUSINESS PROCESSES.....	129
K	APPENDIX K - WEBSITE	130
L	APPENDIX L - LIST OF GOODS AND RELATED SERVICES.....	132
M	APPENDIX M - ESTIMATED MANPOWER REQUIREMENT	138
N	APPENDIX N - EXPECTED IMPLEMENTATION SCHEDULE	139
O	APPENDIX O - ABBREVIATIONS.....	140

List of Tables

Table 1: Mandatory Technical Specifications.....	5
Table 2: Service Level Chart	11
Table 3: Severity Definition Chart.....	20
Table 4: Bid Structure	27
Table 5: Bidder - Company Statistics.....	27
Table 6: Technical Specification for Application Packages	28
Table 7: Details of Product Offered.....	29
Table 8: Technical Specifications of Hardware	29
Table 9: Details of Hardware Offered	30
Table 10: Proposed Project Team Structure	31
Table 11: Proposed Resource Planning and Estimation	32
Table 12: Details of Project Experience	33
Table 13: Format of Curriculum Vitae.....	33
Table 14: Firm Detail.....	34
Table 15: Details of Certification.....	36
Table 16: Format for Deviations.....	37
Table 17: Check List for Mandatory Forms	80
Table 18: Check List for proper Documentation & Compliance.....	80
Table 19: Distribution of weights for bid evaluation	84
Table 20: Score for Technical Evaluation	84
Table 21: Calculation of Technical Score	85
Table 22: Geographical & Administrative Information of all the Project Areas	88
Table 23: List of Offices for WAN Connectivity	93
Table 24: Details of existing Applications to be Upgraded or Integrated with new System	124
Table 25: Technical Evaluation of Existing IT Applications	125



Table 26: Details of existing Hardware to be Upgraded or Integrated with new system	126
Table 27: List of Manuals/ Business Process to be converted into Electronic Form ..	127
Table 32: Detail of existing Website.....	130
Table 34: Estimated Manpower Requirement	138
Table 35: Expected Implementation Schedule	139



A Appendix A - Mandatory Technical Specifications

ITIA should provide documentary proof of compliance of following specification. Where it is not possible to submit any certified proof for the same, ITIA shall self certify that it would comply with the specification during implementation.

Table 1: Mandatory Technical Specifications

A	Solution Specifications	Validation Through (Certificate/ Document/ Self Certify)	Available/ Not available
A.1	The solution shall be designed with Service Oriented Architecture. The solution shall be designed based on Component-based approach. It shall be highly granular and loosely coupled to ensure that the failure of one component does not cascade to others.	Document / Self Certify	
A.2	The solution shall be designed on web based architecture.	Document / Self Certify	
A.3	The solution shall be horizontally and vertically scalable and also have virtualization capability.	Document / Self Certify	
A.4	The solution shall be designed with Open Industry Standards and not with Supplier's proprietary protocol.	Document / Self Certify	
A.5	The directory services shall be based on commonly accepted application protocol like LDAP.	Document / Self Certify	
A.6	The proposed solution should be based on WS-* specifications (Web services specifications) & unified access framework compliant to W3C (World Wide Web Consortium) specifications.	Document / Self Certify	
A.7	The application shall provide the functionality to configure the parameters to define the business rules with the application. These parameters shall not be hard-coded in the application.	Document / Self Certify	
A.8	The solution shall provide the functionality to configure the roles & responsibilities and grant role based access to the users. Also, the system shall have the capability to integrate with various standard SSO (Single Sign-On) or IDM (Identity Management) applications.	Document / Self Certify	
A.9	The solution shall use an integration middleware layer so that all required external systems shall be integrated on a continuous basis. The solution shall conform to the requirements specified in Section 3.10	Document / Self Certify	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	G1 of SRS document.		
A.10	The solution shall provide the functionality to encrypt the data stored or transmitted data.	Document / Self Certify	
A.11	The solution shall provide the functionality to maintain the audit trail of all critical transactions.	Document / Self Certify	
A.12	The solution shall be able to interoperate with: <ul style="list-style-type: none"> • standard RDBMS platforms like Oracle, MS SQL, MY SQL, DB2, Informix, Sybase or any other RDBMS confirming to ANSI/ISO SQL-200n standards • operating systems like Windows, Unix, Solaris etc • web browsers like Internet explorer, Mozilla Firefox, Opera etc. 	Document / Self Certify	
A.13	The solution shall be installed with the latest security updates provided by software Supplier.	Document / Self Certify	
A.14	The software version shall be supported by the software vendor for a minimum period of next five years.	Document / Self Certify	
A1	Module: Meter Data Acquisition		
A1.1	The Meter data acquisition Solution shall be capable of collecting and analyzing data on a common data structure/ format from system/ consumer meters of various makes and models. The solution shall be compatible with present modbus compliant meters installed in utilities as well as future meters likely to be introduced in Indian market complying with DLMS /COSEM/IEC-62056/ANSI C-12.19/IEEE P-1377 Standards.	Document / Self Certify	
A1.2	The regional hierarchy and network topology shall be specific to the Indian context and flexible enough to account for different voltage levels in Indian sub-transmission and distribution networks e.g. 66/33/22/11/ 0.4 KV.	Document / Self Certify	
A2	Energy Audit		
A2.1	The Energy Audit solution shall be able to calculate allowable technical losses and estimated technical & commercial losses in every part of the network via integration with Network analysis module, Meter data acquisition module, GIS based indexing and asset mapping and computerized billing system.	Document / Self Certify	
A3	Module : GIS based customer Indexing and asset mapping		



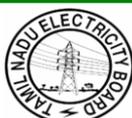
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A3.1	<p>The Indexed customer database, when created and operational, shall be capable of being 'on line' connected to other business process software without any limitation.</p> <p>The updation of GIS database is mandatory in case of addition of customer/asset or dismantling of existing customer/asset.</p>	Document / Self Certify	
A3.2	<p>The solution shall be based on open GIS standards and shall be OGC (Open Geospatial Consortium) Compliant.</p> <p>The solution shall have a ready provision / facility so that it can be easily integrated to the other systems/applications, such as :</p> <ul style="list-style-type: none"> • SCADA • Energy Audit and accounting system • New connection, disconnection & dismantling system • Customer Care Centers • Customer Information & Billing System • Project Management etc. 	Document / Self Certify	
A4	Module: Customer care services		
A4.1	The Customer care service solution shall have single window interface through multiple touch points.	Document / Self Certify	
A4.2	The Customer care service solution shall have call escalation facility, in case the issues are not resolved within the defined service levels.	Document / Self Certify	
A5	Module: Management information Systems		
A5.1	The MIS solution shall provide Business Intelligence Tools for data mining, analysis, trending, simulation etc.	Document / Self Certify	
A6	Module: Identity and Access Management Systems		
A6.1	The Identity and access management solution shall support two factor authentication (Biometrics, tokens etc.)	Document / Self Certify	
A6.2	The solution shall have feature to generate reports in the lines of ISO 27001 standard.	Document / Self Certify	
A6.3	The solution shall provide secure environment for transmitting information across the Internet.	Document / Self Certify	



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RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

A6.4	The solution shall provide a mechanism to perform the user authentication procedure. In case of authentication failure, the feedback should not include the reasons for such failure.	Document / Self Certify	
A7	Billing		
A7.1	The solution shall have a ready provision / facility so that it can be easily integrated with: <ul style="list-style-type: none"> • Automatic online Meter Reading devices and • handheld computers/CMRI used for spot metering & billing 	Document / Self Certify	
A8	Asset Management , Maintenance		
A8.1	The solution shall have a ready provision / facility so that it can be easily integrated with : <ul style="list-style-type: none"> • GIS System • Customer Care System • SCADA 	Document / Self Certify	
B	Hardware Technical Specifications		
B.1	The hardware solution shall meet the performance criteria specified in the contract. In case the offered hardware does not meet the performance criteria, the supplier must provide additional equipments or upgrade the equipments without any additional cost to the utility.	Document / Self Certify	
B.2	The hardware shall be scalable to manage enterprise level solution for the entire utility.	Document / Self Certify	
B.3	The server hardware shall have 64 bit processing capability. Database servers shall be in cluster fail over mode and Application servers shall be in scale out mode.	Document / Self Certify	
B.4	The supplier shall submit the data sheets for each of the hardware model detailing the specifications of the hardware.	Document / Self Certify	
B.5	The hardware models shall be supported by the hardware OEM for a minimum period of next five years.	Document / Self Certify	
B.6	The hardware device operating system shall be EAL 2 certified (Evaluation Assurance Level).	Document / Self Certify	



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RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

C	Mandatory Requirements of OEM for Hardware		
C.1	The OEM vendor shall have ISO 9001:2000 and ISO 14000 certifications.	Certificate	
C.2	The OEM vendor shall have an annual turnover more than Rs. 250 crores from hardware business in each of the last three financial years.	Self Certify + CA Certificate	
C.3	The OEM vendor shall have at least one service center within the State with sufficient infrastructure.	Document / Self Certify	



B Appendix B - Technical Specifications

- Please refer Excel Sheet - Appendix B
- The excel sheet has to be filled by the bidder as its response to technical specifications requirements and to be submitted along with the bid, in a CD (in duplicate)
- The hardcopy of the same should necessarily be submitted along with the technical bid submission



C Appendix C - Service Level Agreement

C.1 Purpose of this Agreement

The purpose of this SLA is to clearly define the levels of service to be provided by Supplier to Purchaser for the duration of this contract or until this SLA has been amended. The benefits of this SLA are to:

- 1 Trigger a process that applies Purchaser and Supplier management attention to some aspect of performance only when that aspect drops below an agreed upon threshold, or target.
- 2 Makes explicit the performance related expectations on performance required by the Purchaser
- 3 Assist the Purchaser to control levels and performance of services provided by Supplier
- 4 This SLA is between Supplier and Purchaser.

C.2 Description of Services Provided

Supplier shall provide service as defined in Section VI - Scope of Work, in accordance to the definitions and conditions as defined in the Section VII - GCC and Section VIII - SCC.

C.3 Duration of SLA

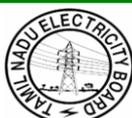
This Service level agreement would be valid for entire period of contract. This SLA may be reviewed and revised according to the procedures detailed in Section C.10 of SLA (SLA Change Control).

C.4 Service Level Agreements & Targets

This section is agreed to by Purchaser and Supplier as the key supplier performance indicator for this engagement. The following section reflects the measurements to be used to track and report systems performance on a regular basis. The targets shown in the following tables are for the period of contract or its revision whichever is later.

Table 2: Service Level Chart

Mapping with Section G5 of SRS Document	Service	Parameter	Service Level	Validation	Penalty
5.1	Project Management	Submission of Monthly Project Status reports &	100%	• Minutes of Meetings	2% of monthly FMS charges for



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Mapping with Section G5 of SRS Document	Service	Parameter	Service Level	Validation	Penalty
		Conducting Status meetings		<ul style="list-style-type: none"> Approval of Status reports by Engineer-in-Charge 	every default
5.2	Helpdesk	Resolution of ticket logged as per the Severity definition chart	99%	Reports generated from Ticket logging system	<p>95%-99% calls resolved in specified time: 2% penalty on the monthly FMS charges</p> <p>90% - 95% calls resolved in specified time: 5% penalty on the monthly FMS charges</p>
5.3	Install, Moves, Add, Changes (IMAC) Services	Should be part of Monthly project status report	95%	Report	0.2% of monthly FMS charges
5.4	Asset Inventory / Management	Provide monthly MIS Asset Inventory	95%	Report	0.2% of monthly FMS charges
		Provide monthly MIS on new requirements with procurement time	95%	Report	0.2% of monthly FMS charges
		Conduct Annual Physical Asset verification	100%	Management approval of Physical Asset Verification report	0.5% of Yearly FMS charges
5.5	Supplier Management Services	Evaluation of Supplier Performance on quarterly basis	100%	Management approval of Supplier Performance evaluation report	0.5% of Quarterly FMS charges
		Tracking of	95%	Status of	0.5% of monthly



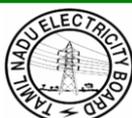
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Mapping with Section G5 of SRS Document	Service	Parameter	Service Level	Validation	Penalty
		Supplier SLA & tickets logged with suppliers		tickets logged with Suppliers	FMS charges
		MIS reporting on AMC tenure, License fees	95%	Report	0.2% of monthly FMS charges
5.6	Desk Side Technical support Services	Resolution of ticket logged as per the Severity definition chart	95%	Reports generated from Ticket logging system	1% of monthly FMS charges
5.7	Antivirus Management	Rollout of latest anti-virus definition file on workstations and Servers on being made available on Supplier's website	98%	Reports generated from Anti Virus software console	1% of monthly FMS charges
5.8	LAN & local server administration	Resolution of ticket logged	99%	Reports generated from Ticket logging system	Covered under 5.1
5.9	Network Monitoring & Management	SI to monitor the availability of the network link for 99% uptime. SI should measure link availability on a monthly basis.	99%	Downtime reports Reports on the Network performance	Penalty of 2% per month will be deducted from the monthly FMS charges of that utility, if the reports are not submitted by the SI. Important: A separate SLA will be signed with bandwidth provider.
		Resolution of ticket logged related to Networks	99%	Reports generated from Ticket logging system	Covered under 5.1
		Data Centre Network	99.8%	Report	• 2% of monthly FMS



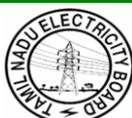
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Mapping with Section G5 of SRS Document	Service	Parameter	Service Level	Validation	Penalty
		Availability Minimum of 99.8% uptime measured on a monthly basis			charges for less than 99.8% <ul style="list-style-type: none"> • 3% of monthly FMS charges for less than 98.0% • 5 % of monthly FMS charges for less than 95% •
		Regional Offices Network Availability Minimum of 98% uptime measured on a monthly basis	98%	Report	<ul style="list-style-type: none"> • 2% of monthly FMS charges for less than 98% • 3% of monthly FMS charges for less than 97% • 5 % of monthly FMS charges for less than 95 %
		Divisional & Other Offices Network Availability Minimum of 97% uptime measured on a monthly basis	97%	Report	<ul style="list-style-type: none"> • 2% of monthly FMS charges for less than 97% • 3% of monthly FMS charges for less than 95%



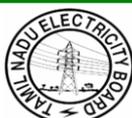
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Mapping with Section G5 of SRS Document	Service	Parameter	Service Level	Validation	Penalty
5.10	Data Centre Operations	MIS reporting on physical and environmental conditions controls	95%	Report	0.2 % of monthly FMS charges
		MIS reporting of health checkup of all systems & modules installed	95%	Report	0.2 % of monthly FMS charges
5.11	Server Administration / Management	Rollout of patches (OS, infra level) on workstations and Servers after patch being approved on test environment	98%	Patch update report	0.5% of monthly FMS charges
		Uptime of app servers	99.8%	Report	<ul style="list-style-type: none"> • 2% of monthly FMS charges for less than 99.8% • 3% of monthly FMS charges for less than 98% • 5 % of monthly FMS charges for less than 95%
		Uptime of utility servers except email	99.8%	Report	<ul style="list-style-type: none"> • 2% of monthly FMS charges for less than 99.8% • 3% of monthly FMS charges for



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Mapping with Section G5 of SRS Document	Service	Parameter	Service Level	Validation	Penalty
					less than 98% <ul style="list-style-type: none"> 5 % of monthly FMS charges for less than 95%
5.12	Database Administration services	MIS report of database scheme, disk space, storage and user role	99%	Report	0.5% of monthly FMS charges
5.13	Backup/ Restore Management	The Supplier should take backup as per the backup schedule defined by utility	99%	Report	If the negligence is found in monthly audit, the Bidder would be penalised a sum of Rs. 5,000/- per negligence.
		Utility would periodically (once a quarter on a random day) request the Supplier to restore the backup data	100%	Report	Rs 5000/- for every restore test failure
5.14	Mail Messaging System /	Uptime of email server	99%	Report	<ul style="list-style-type: none"> 2% of monthly FMS charges for less than 99% 3% of monthly FMS charges for less than 98% 5 % of monthly FMS charges for



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Mapping with Section G5 of SRS Document	Service	Parameter	Service Level	Validation	Penalty
					less than 95%
		Provide monthly MIS of user account and mailboxes created/deleted.	95%	Report	0.2% of monthly FMS charges
5.15	Management of utility's EMS	Daily MIS of server and device health checkup (CPU, disk space, memory utilization, I/O utilization, Central Storage etc.)	100%	Reports generated from EMS system	0.5% of monthly FMS charges
6.1	Incident management	Resolution of ticket logged in Incident Management tool	99%	Reports generated from Ticket logging system	0.5% of monthly FMS charges
6.2	Ticketing Management	Same as 6.1			
6.3	Problem Management	Supplier shall analyze all the incidents and provide a root cause report every month if there are more than 10 incidents of the same type. Supplier shall take the needed corrective action to prevent further issues due to the same cause.	100% timely submission covering all incidents logged in that month	<ul style="list-style-type: none"> • Root cause report • Incident report stating problems faced by the users • Document detailing corrective action 	<ul style="list-style-type: none"> • 5% penalty on the monthly FMS charges of that Project Area, if the Supplier does not submit a problem report for that month. • 5% penalty on the monthly FMS charges of that Project Area, if the Supplier does not perform the corrective



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Mapping with Section G5 of SRS Document	Service	Parameter	Service Level	Validation	Penalty
					action for more than one calendar month.
6.4	Change Management	Resolution of Change Management ticket logged in Change Management tool	99%	Reports generated from Change Management System	Covered under 5.1
6.5	Release Management	Same as 6.1			
6.6	Email Listner	Same as 5.14			
6.7	Availability Management	Should be part of Monthly status report	95%	Report	0.2% of monthly charges of FMS
6.8	Performance Management	Should be part of Monthly status report	95%	Report	0.2% of monthly charges of FMS
6.9	Capacity management	Should be part of Monthly status report	95%	Report	0.2% of monthly charges of FMS
6.10	Security Management	Should be part of Monthly status report	95%	Report	0.2% of monthly charges of FMS
7	Resource Management	Number of shift days for which resource present at the designated location / Total number of shift days	98% averaged over all resources designated for SI services - calculated on a monthly basis	<ul style="list-style-type: none"> • Attendance track • Call Log • Audit calls/ visits Measured on a monthly basis	If the resource availability is less than 95%, then payment shall be deducted based on the pro-rata basis. (Total FMS cost per day divided by nos. of persons deployed)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Mapping with Section G5 of SRS Document	Service	Parameter	Service Level	Validation	Penalty
					Further deduction Rs.2,000/- per day per engineer/shall also be made on account of loss of utility/service
		Resource provided is not as per specified certification / experiences	100% of the resource given	Experience Certificate of FMS personnel submitted by Supplier to Utility	Per day deduction = 0.5 * (Monthly value for that manpower as per SOR) / 30

Uptime Calculation for the month:

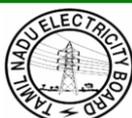
$$\{[(\text{Actual Uptime} + \text{Scheduled Downtime}) / \text{Total No. of Hours in a Month}] \times 100\}$$

"Actual Uptime" means, of the Total Hours, the aggregate number of hours in any month during which each equipment, is actually available for use.

"Scheduled Downtime" means the aggregate number of hours in any month during which each equipment, is down during total Hours, due to preventive maintenance, scheduled maintenance, infrastructure problems or any other situation which is not attributable to Supplier's (or Service provider's) failure to exercise due care in performing Supplier's responsibilities.

The Purchaser would provide a maximum of 04 hours of planned downtime for the preventive maintenance (as part of scheduled downtime) per month per equipment/service.

The downtime for scheduled maintenance (patch application, upgrades - OS, Database, etc.) would need to be mutually agreed between Utility and the Bidder. To reduce this time, various maintenance activities can be clubbed together with proper planning.



"Total Hours" means the total hours over the measurement period i.e. one month (24 * number of days in the month).

Downtime Calculation:

The recording of downtime shall commence at the time of registering the call with Supplier or Service Provider for any downtime situation for the equipment.

Downtime shall end when the problem is rectified and the application/ service is available to the user.

Down time will not be considered for following:

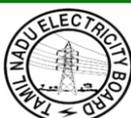
1. Pre-scheduled preventive maintenance and health checks (Scheduled Downtime).
2. Failover time (30 minutes) in case of cluster environment. Beyond which the service would be considered to be not available and appropriate penalty shall be imposed on the Supplier.
3. Bug in any application which causes the non-availability of the service.

If the utility elects to continue the operation of the machine / equipment, when a part of the machine is giving problem and leading to downtime, the commencement of downtime shall be deferred until the utility releases the machine / equipment to the Bidder for remedial action.

Severity definition chart is tabulated below for reference.

Table 3: Severity Definition Chart

Support Category	Criteria	Resolution	Maximum Response Time
Critical	The system is unable to be used for normal business activities. There is certainty of financial loss to PURCHASER.	90 Minutes	15 Minutes
Urgent	There is a problem with part of the system, which impacts on Purchaser's decision making. No viable workaround is available. There is a likelihood of financial loss.	4 Hours	1 Hour
High	The efficiency of users is being impacted, but has a viable workaround.	6 hours	2 Hours



Medium	A low impact problem that affects the efficiency of users but has a simple workaround.	12 Hours	8 Hours
Low	A fault, which has no particular impact on processing of normal business activities.	One Week	8 Hours

C.5 Breach of SLA

In case the Supplier does not meet the service levels mentioned in Section C.4 of this Appendix & Section G5 of SRS document, for three (3) continuous time-periods as specified in the relevant clause, the Purchaser will treat it as a case of breach of Service Level Agreement. The following steps will be taken in such a case:-

1. Purchaser issues a show cause notice to the Supplier.
2. Supplier should reply to the notice within three working days.
3. If the Purchaser authorities are not satisfied with the reply, the Purchaser will initiate termination process as described in clause 33 of Section VII, GCC.

C.6 Exclusions

The Supplier will be exempted from any delays or slippages on SLA parameters arising out of following reasons:-

- 1 Delay in execution due to delay (in approval, review etc) from Purchaser's side. Any such delays will be notified in written to the IT Team.
- 2 The network links will be provided by a third party and the Supplier will monitor and report any problems on behalf of third party. If Supplier notifies and Purchaser approves that the delay or fault was due to the third party link services then such loss will not be considered for tracking Supplier's SLA parameters (Also reduced from total service time).

C.7 Monitoring and Auditing

IT Team of Purchaser will review the performance of Supplier against the SLA parameters each month, or at any periodicity defined in the contract document. The review / audit report will form basis of any action relating to imposing penalty or breach of contract. Any such review / audit can be scheduled or unscheduled. The results will be shared with the Supplier as soon as possible. Purchaser reserves the right to appoint a third-party auditor to validate the SLA.

C.8 Reporting Procedures

The Supplier's representative will prepare and distribute SLA performance reports in an agreed upon format by the 10th working day of subsequent month of the reporting



period. The reports will include “actual versus target” SLA performance, a variance analysis and discussion of appropriate issues or significant events. Performance reports will be distributed to the Purchaser’s IT Team.

C.9 Issue Management Procedures

C.9.1 General

This process provides an appropriate management structure for the orderly consideration and resolution of business and operational issues in the event that quick consensus is not reached between Purchaser and Supplier. It is expected that this pre-defined process will only be used on an exception basis if issues are not resolved at lower management levels.

C.9.2 Issue Management Process

- Either Purchaser or Supplier may raise an issue by documenting the business or technical problem, which presents a reasonably objective summary of both points of view and identifies specific points of disagreement with possible solutions.
- Purchaser and the Supplier’s representative will determine which committee or executive level should logically be involved in resolution.
- A meeting or conference call will be conducted to resolve the issue in a timely manner. The documented issues will be distributed to the participants at least 24 hours prior to the discussion if the issue is not an emergency requiring immediate attention.
- Management of Purchaser and Supplier will develop a temporary, if needed, and the permanent solution for the problem at hand. The Supplier will then communicate the resolution to all interested parties.
- In the event a significant business issue is still unresolved, the arbitration procedures described in the Contract will be used.

C.10 SLA Change Control

C.10.1 General

It is acknowledged that this SLA may change as Purchaser’s business needs evolve over the course of the contract period. As such, this document also defines the following management procedures:

- 1 A process for negotiating changes to the SLA.
- 2 An issue management process for documenting and resolving particularly difficult issues.
- 3 Purchaser and Supplier management escalation process to be used in the event that an issue is not being resolved in a timely manner.



Any changes to the levels of service provided during the term of this agreement will be requested, documented and negotiated in good faith by both parties. Either party can request a change. Changes will be documented as an addendum to this document and consequently the contract.

C.10.2 SLA Change Process

Both the parties may amend this SLA by mutual agreement in accordance. Changes can be proposed by either party. Normally the forum for negotiating SLA changes will be Purchaser's monthly review meetings.

C.10.3 Version Control

All negotiated SLA changes will require changing the version control number. As appropriate, minor changes may be accumulated for periodic release (e.g. every quarter) or for release when a critical threshold of change has occurred.

C.11 Management Escalation Procedures

The purpose of this escalation process is to provide a quick and orderly method of notifying both parties that an issue is not being successfully resolved at the lowest possible management level. Implementing this procedure ensures that purchaser and Supplier management are communicating at the appropriate levels. Escalation should take place on an exception basis and only if successful issue resolution cannot be achieved in a reasonable time frame.

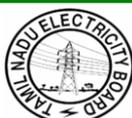
1. All issues would be raised to the project management team, which is completely responsible for the day to day aspects of the implementation. The project management team shall classify the issues based on their severity level and resolve them within appropriate timelines.
2. If project management team is unable to resolve an issue, the issue would be escalated to the top management with options/ risks detailed for decision. Top management will make decisions based on the options/ risks presented by the IT team.
3. In case one or both the parties are unsatisfied with the decision of the top management of the Purchaser, the dispute will be resolved as specified in clause 8 of Section VIII - GCC.

C.12 Signature Page

IN WITNESS WHEREOF, the parties hereto have caused this Service Level Agreement to be executed by their respective authorized representatives as of the date first written above.

Supplier
(On Behalf of all consortium members also)

Purchaser



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Signature

--

Name

Address

Company

Date

Signature

Name

Designation

Date



D Appendix D - Supplier Response Format

D.1 General Guidelines to the bidders

The Purchaser will select a Supplier (also referred as the 'bidder') in accordance with the eligibility criteria indicated in Section IV.

The bidders are invited to submit a Technical Proposal and a Price Proposal for goods and related services required for the project as defined in Section VI, Scope of Work and Appendix L. This proposal will be the basis for contract negotiations and finalization of the contract with the successful bidder.

The bidders must familiarize themselves with local conditions and take these into account while preparing their proposals. To facilitate the bidders in making the Proposal, the Purchaser shall have a 'Pre-Bid conference' at the address and date as given in ITB, Section II.

Please note that:

- Costs involved in preparation of the proposal and of negotiating the contract, including a visit to the Purchaser, are not reimbursable.
- The final evaluation will be based on both technical and commercial factors as per the evaluation methodology mentioned in the Appendix E.
- Please check all attachments with the checklist provided at the end, prior to submission of bid.

D.1.1 Guidelines for Technical proposal

In preparing the Technical Proposal, bidders are expected to examine this Bid document in detail. The proposal should cover all the aspects of this bid document. Any bid not found responsive to this bid document shall be rejected. Material deficiencies in providing the information requested may also result in rejection of the proposal.

While preparing the technical proposal, bidders must give particular attention that the technical proposal does not include any financial information.

D.1.2 Guidelines for Price proposal

In preparing the price proposal, bidders are expected to take into account the requirements and conditions of the bid document. The price proposal should follow standard formats/forms as given in Appendix D.3.



Bidder should quote for each Project Area cost separately and also provide the consolidated cost of the project.

Price Proposal should clearly indicate the price to be charged without any qualifications whatsoever and should include all taxes (sales, service, etc.), duties (excise & customs, etc), octroi, fees, levies, works contract tax, Entry tax and other charges as may be applicable, to be paid pre- or post-delivery or to be deducted by the purchaser at source, in relation to the Goods and Related Services. Such taxes, duties, cess, charges etc, if not explicitly mentioned in the Price bid tables in Appendix H.3, but applicable under law, should be included in the Quote under "Any other levies" column. The price proposal should be conformance to clause 12.3 of ITB, Section II.

D.1.3 Submission of proposal

- The original technical proposal and price proposal shall be prepared in indelible ink. It shall contain no inter-lineation or overwriting, except as necessary to correct errors made by the bidder itself. The authorised representative must initial any such corrections as mentioned in clause 21.2 ITB, Section II.
- An authorised representative of the bidder should initial all pages of the proposal.
- The bidders should submit **five** hard copies and **five** soft copies in separate compact discs as per clause 21.1 ITB, Section II. The soft copies should be necessarily in **MS Word / MS Excel** format (editable) besides other format(s).
- Bidders are requested to submit a proposal written in the English language. Bidders would need to submit both the technical and the price proposals.
- The proposal should be typed in "Times New Roman" font, size 11 with single line spacing.
- The document should be precise to requirements and concise in nature.
- Each technical proposal and price proposal should be marked "Original" or "Copy" as per clause 21.1 ITB. Section II. If there are any discrepancies between the original and the copies of the Proposal, the original governs. Proposals containing erasures or alterations are liable to be excluded from the evaluation process.
- The original and all copies (also softcopies) of the technical proposal shall be placed in a sealed envelope clearly marked "Technical Proposal". The original and all copies (also softcopies) of the price proposal should also be placed in a sealed envelope clearly marked "Price proposal" along with a warning: "Do not open with the Technical Proposal." Both envelopes shall be placed into an outer envelope and sealed. This outer envelope shall be super scribed with the following information:
 1. Name of the bidder
 2. Due date and time of submission
 3. Submission address and contact detail



A clear marking stating: "DO NOT OPEN, EXCEPT IN PRESENCE OF THE EVALUATION COMMITTEE."

- Any omissions / deviations on the above, will cause rejection of the bid

The completed technical and price proposal must be delivered at the submission address on or before the time and date stated in the Bid Data Sheet, Section III. The Purchaser will not be responsible for any postal or transit delays. Any proposal received after the closing time for submission of proposals shall be returned unopened.

D.2 Technical Proposal

D.2.1 General requirements

D.2.1.1 Bid structure

The response should include detailed structure of the bid specifying the names of bidder, consortium member (if any) and subcontractors, stating their respective responsibilities. Use following format:-

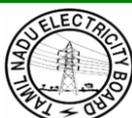
Table 4: Bid Structure

Role	Name of Company & Address
Bidder (SI/ Lead member in case of consortium for SI role)	
Consortium member (Second member in case of consortium for SI Role)	
GIS Solution Provider	
Network Solution Provider	
Meter Data Acquisition Solution Provider, if required	

D.2.1.2 Bidder - Company Statistics

Please provide the general and financial details of each of the entities (bidder, consortium member (if any) and subcontractors) in the following formats:

Table 5: Bidder - Company Statistics



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Details	Supplier Response
Bidder's Name	
Address	
Contact (s), Title (s), Telephone (s), E-mail id (s)	
Name of the Chairman/ MD/ CEO/ Partners	
Nature of Ownership	
Date of Incorporation of Company/Entity	
Headquarter Location	
Other Office Locations, Functions and Personnel Strength	
Number of Employees by Function <ul style="list-style-type: none"> • Implementation • Sales • Support • Quality Assurance • Administrative • Management 	
Size of Team for the Proposed Solution	
Location of Support Centers for Proposed Solution	
Other Businesses	

D.2.2 Technical Specification requirement of Application packages

Refer to Technical Specifications, Appendix B.1 for details. Please respond to each specification in following format. Copy first three columns from Appendix B.1.

Table 6: Technical Specification for Application Packages

No	Functional Requirements	Criticality	Supplier Response	Remarks



The code to be used for providing Supplier rating responses in the column "Supplier Response" for the functional requirements is provided below:

A - Functionality not available;

B - Available with modification/workaround

C - Functionality available

Please note that the rating as per the above scale is to be entered in the "Supplier Response" column, and column titled "Remarks" is to be used for commenting on aspects related to the functional specification. Bidders have to fill on two columns ("Supplier Response" & "Remarks").

Please also note that the serial no. and format of response should be exactly similar to that given in Appendix B.1. Please note that the response is also to be provided in soft copy in addition to the hard copy.

Please provide a summary of versions of various modules, if the proposed solution is a product. Use following format:-

Table 7: Details of Product Offered

Name of product	Module details	Version and year of release

D.2.3 Hardware Technical Specifications (Including network equipments, LAN/WAN, Kiosk etc.)

Refer to Technical Specifications, Appendix B.2 for details.

Please respond to each specification in following format.

Table 8: Technical Specifications of Hardware

No	Description/Requirements	Priority	Supplier Response	Remarks

The code to be used for providing Supplier rating responses in the column "Supplier Response" for the hardware requirements is provided below:



A. Compliant

B. Not Compliant

Please note that the rating as per the above scale is to be entered in the "Supplier Response" column, and column titled "Remarks" is to be used for commenting on aspects related to the functional specification. Bidders have to fill on two columns ("Supplier Response" & "Remarks").

Please also note that the serial no. and format of response should be exactly similar to that given in Appendix B.2. Please note that the response is also to be provided in soft copy in addition to the hard copy.

Please mention the detailed specification of hardware equipment and system software (operating system, database etc.) including manufacturer, technical details etc. The bidders should provide details of required system software like operating system, database for solution and utilities in following format :-

Table 9: Details of Hardware Offered

Product details	No. of installations	Version and year of release

D.2.4 Approach and Methodology

The following table elaborates various requirements within A&M:

- i. Understanding of Purchaser and its requirement with clear mention of the deliverables
- ii. Details of proposed methodology
- iii. Project Team Structure
- iv. Resource planning and estimation
- v. Risk planning
- vi. Detailed work plan with timelines

D.2.4.1 Understanding of Utility and its requirement

Bidder should depict complete understanding of the as-is system of the Utility based on the information provided in the Bid Document. It should also require to list down all the deliverables that has been planned as a part of the overall project with timelines. Also provide details of prior interaction with Utility, if any.

D.2.4.2 Details of proposed methodology

Please provide details of methodology followed by your organization in successfully implementing similar projects. Also highlight the special steps that your



organization/ consortium intends to take in order to ensure that the change from current system to proposed one will be smooth and effective.

D.2.4.3 Project Team Structure

In this section please provide detail of the team that would be deployed by your organization to execute the project. Please provide details of the team structure in the following format:

Table 10: Proposed Project Team Structure

Name of Staff	Position Assigned	International or Domestic	Firm	Employment status with the firm (Full time/ Associate)	Education (Degree, Year, Institution)	Area of Expertise and number of years of relevant experience	Task Assigned
A. Professional Staff							
B. Support Staff							

D.2.4.4 Resource planning and estimation

Bidder shall provide detailed staffing schedule of the professional and support staff in the following format:

- For Professional Staff the input should be indicated individually; for Support Staff it should be indicated by category (e.g.: IT administrator, field survey staff etc.).
- Months are counted from the start of the assignment. For each staff indicate separately staff input for off-site and on-site work.

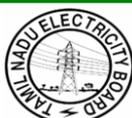


Table 11: Proposed Resource Planning and Estimation

No.	Name of Staff	Position	Staff Input							Total
			In Weeks	W1	W2	W3	W4	W5	
	A. Professional Staff									
	B. Support Staff									

D.2.4.5 Risk planning

Bidder shall assess underlying risks in implementation of the Project and detail out the methodology to mitigate them. It may include development of a risk assessment matrix indicating severity of the risk, chance of its occurrence and its mitigation approach.

D.2.4.6 Detailed work plan with timelines

Please refer Appendix N for the format.

D.2.5 Project Experience

Bidder shall provide details of projects with application modules and other requirements (as mentioned in Eligibility Criteria, Section IV) which have been successfully completed during the last 3 financial years.

Please do not supply the names of clients who are no longer using your product/system.

Bidders need to submit the details as per the format in the table provided.

Table: The details of the same should be included in the following format and necessary supporting documents should be attached with RFP:

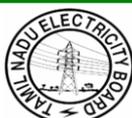


Table 12: Details of Project Experience

Sl. No	Name of project	Brief Scope necessarily including role played by Bidder, modules implemented, sector classification	Owner of Project assignment (Client name)	Currency of Payment (in INR or USD)	Cost of assignment	Date of Awarded commencement	Date of completion	Was assignment satisfactorily completed	Was it a Power Sector Project? (Y/N) Provide Detail

Please provide separate client details for bidder & each consortium member (Implementation partner, product Supplier, WAN/bandwidth/Internet service provider etc.)

D.2.6 Team details (CVs)

Use the following format for key personnel who would be involved in the project. Please include details of team members proposed to implement the project, install or manage hardware, install and manage LAN/WAN and related equipments, provide GIS solution etc., please ensure that the CV has a maximum length of 3 pages.

In case of replacement of Supplier personal from the project team, Supplier is required to submit to the nominated Utility personal the CV of the new person with equivalent or better education qualification and relevant professional experience who will be joining the team and get in duly approved. The new person can start working in the project only after his/her CV has been approved by the Utility.

Table 13: Format of Curriculum Vitae

1. Proposed Position:
2. Name of Firm and ITIA Role (SI/NSP/GSP/MDASP)
3. Name of Staff:
4. Date of Birth: Nationality:
5. Education:

Year	Degree/Examination	Institute/Board



6. Membership of Professional Associations:
 7. Other Training:
 8. Countries of Work Experience:
 9. Languages:

Language	Speaking	Reading	Writing

10. Employment Record:

From	To	Employer	Positions Held

11. Detailed Tasks Assigned:	12. Work Undertaken that best illustrates capability to handle the tasks assigned:

13. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Signature of authorised representative of the staff

Date:

Full name of authorised representative:

D.2.7 Firm Detail

Bidder shall provide details of CMM/CMMI and ISO certification along with the details of net-worth and turnover for the past three audited financial years in the following format:

Table 14: Firm Detail

Details	Year 1	Year 2	Year 3
Net-worth			
Turn-Over			
Level of CMM/CMMI Certification	(Yes/No)		



ISO Certification	(Yes/No)	
-------------------	----------	--

The audited financial reports and copy of the certificates supporting the above need to be submitted as proof.

D.2.8 Facility Management Services Plan

The detail plan for FMS shall be given in accordance with the Section G5 of SRS Document.

D.2.9 Project Management Practices

Please provide high-level details of the project management practices that will be followed to manage the project. The project management practices would include (but not be limited to) details of:-

- Bidder must provide details of how they envisage the contract being managed including principles such as (but not limited to) joint planning and control mechanisms; regular and active review meetings; Project management of individual work streams and overall program management of the entire service; Performance reporting
- Bidder should outline their proposed governance structure and designate a Service Manager to co-ordinate their activities and provide a focal point of contact to whom Utility can refer on any matter concerning the service.
- Reporting lines and decision-making powers within the bidder's organization must be explained
- Reporting formats and templates that would be followed by the bidders
- Outline the proposed escalation procedures in the event that issues arise.

D.2.10 Quality Assurance

- Quality of service - Suppliers must provide details of their proposed approach to quality assurance to ensure the quality of services in accordance with clause 19 of Section G1 of SRS Document. This should include:
 - Responsibility of quality of service;
 - How the supplier will ensure quality service is provided;
 - How quality will be measured
- Does your company (and consortium partner) have any quality certification / Assessment? If so, please provide your responses for the following:



Table 15: Details of Certification

Description	Bidder's Response
Certification / Assessment Name	
Who issued the certification/assessment?	
When was the certification/assessment obtained?	
Does this certification/assessment process involve periodic reviews and observations/ remarks after such review? If so, please provide details and specify when your company is due for its next quality review?	

- Please specify your company's process for product development and enhancements

D.2.11 Documentation

Please provide a list of all user documents that will be provided along with the software package. This must include the following minimum documents:

- System and administration manuals
- Technical support handbook
- User Manuals;
- Error Messages and their Meanings;
- Training Manuals;
- Analysis & Design Manuals with the relevant data flow diagrams, entity relationship diagrams, schemas etc.;
- Additions/ changes to the documents after upgrades; and
- Operations Manuals.

D.2.12 Deviations Sheet

Only "non-material deviations" (which means only those deviations that do not qualify as material deviations as defined in ITB clause 29.2 of bid document) will be considered by the purchaser. Please describe all the non-material deviations w.r.t Terms and conditions described in the General conditions of contract, Section VII & Special conditions of contract, Section VIII.



If bidder desires to take any non-material deviation from the terms & conditions of the tender, it should be mentioned specifically in this deviation sheet. Unless such deviations are mentioned in this deviation sheet, the same will not be taken into consideration.

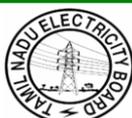
Table 16: Format for Deviations

Tender Clarifications - Terms and Conditions			
Sl. No.	Tender Reference (Section / Clause number)	Details of Clauses / Section needing deviation	Deviation proposed

Except aforesaid deviations, the entire order, if placed, shall be executed in accordance with specifications and any other conditions, variations/deviations etc. if found, elsewhere in this proposal should not be given any consideration while finalizing the tender.

It is not mandatory to consider and accept the deviation mentioned on deviation sheet proposed by the bidder.

Note: - Continuation sheet of like size & format may be used as per bidder's requirement wherever necessary.



D.3 Price proposal

Bidders are requested to provide cost for each of the Project Area in the subsequent formats. The Bidders should take a note of following points while filling the Price proposal.

- 1 Bidder will be responsible for payment of Taxes (including local entry taxes), duties, cess, charges etc, including taxes, duties, cess, charges etc, to be paid by the Supplier pre- or post-delivery. Such taxes, duties, cess, charges etc, if not explicitly mentioned in the following tables, but applicable under law, should be included in the Quote under “Any other levies” column.
- 2 The Bidder will provide Tax rates assumed for the calculation at the time of proposal for each item in notes to respective table.
- 3 Please refer to GCC Clause 13.2 and the SCC —for Price adjustments due to change in Tax rates (including local entry taxes), duties, cess, charges etc.
- 4 Purchaser reserves the right to deduct and pay to the government authorities the taxes at applicable rates from the price payable to the supplier.
- 5 The unit prices mentioned for various components should be the same for all Project Areas. In case of any discrepancy among unit prices of various Project Areas, the lowest unit price of equipment mentioned for any Project Area shall prevail.

D.3.1 Utility proposes establishment of one centralized Data Centre and Customer Care Centre which are located in the Project Area(s) defined in the Appendix F (List of offices for WAN connectivity). Project Area with Data Centre & Customer Care Centre

Bidder should refer Appendix F to fill in following information:

Name of Project Area (town):-	
Location Data Centre:-	Chennai
Location of Customer Care Centre:-	Chennai
Location of Data Recovery Centre:-	Madurai



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Number Subdivision Offices under the Project Area:-	
Number of Other Offices under the Project Area:-	

- Forms (Form 1 to Form 6) mentioned in the Appendix D.3.1 should only be filled, by the bidder, to provide cost of IT implementation for Project Area where Data Centre and Customer Care Centre are located. Form 7 to be filled to provide cost for the Disaster Recovery Center. Bidders to note that the Data centre software and applications will include DR license (for DR Site). In case bidder needs additional software for DR Site, the same has to be added by the bidder in the DR Form (Form 7). For other Project Area(s) of the Utility, Forms (Form 3 to Form 6) mentioned in Appendix D.3.2 should be filled.
- Bidder should define quantity and unit price which includes FOB, Freight & Insurance, Excise Duty, CST/VAT and any other levies for each item listed below in the following format.
- Other offices cover (but not limited to) head quarter, regional offices, circle offices, division offices, sub division office, section office, etc. These offices are not to be provided with any server and shall have connectivity with Data Centre to transfer/access information.

Form 1: Data Centre Cost

- Bidder should provide lumpsum cost of installation, testing & commissioning, training of employees, data migration cost etc. including all taxes in the format provided below.
- WAN/LAN implementation charges shall include charges for setup, configuration, training, installation, cables, liaisoning with service provider, etc.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/ VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Hardware/ Equipment												
Server Hardware												
Database Server for GIS in cluster fail-over Mode		No.										
Database Server for other applications in cluster fail-over Mode		No.										
GIS Application Server		No.										
Application Server for others		No.										
Data Acquisition Server.		No.										
Testing, Development & QA Server		No.										
Access Control Server		No.										
Anti-Virus Server		No.										
DNS Server		No.										
LDAP Server		No.										
Web Server		No.										
Reverse Proxy Server		No.										
EMS/NMS Server		No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/ VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
with Network Operation Console												
Mail/ Messaging Server		No.										
Sub Total												
Workstation PC (Computer chair, table etc.)		No.										
Sub Total												
Storage & Backup Devices												
SAN storage		No.										
Fiber Channel SAN switch		No.										
SAN Cabling		Set										
Backup Server		No.										
Tape Library		No.										
Other Storage Device		No.										
Sub Total												
Server Racks												
IDF/MDF Wall Mount Racks		No.										
IDF/MDF Floor Mount Racks		No.										
Sub Total												
Switches												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

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				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Core Switch		No.										
Access Switch		No.										
Distribution Switch		No.										
Layer II Switch		No.										
Sub Total												
Routers												
Router for MPLS/ VPN Network		No.										
Router for Internet Gateway		No.										
Sub Total												
Other Active Devices												
Application Load Balancer												
Cabling System												
Cables, Jacks etc.		Lot										
Fiber Optical Cable, Connectors, Patch Cord etc.		Lot										
Sub Total												
UPS & Battery System												
Critical Load UPS		No.										
Service Load UPS		No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

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Sub Total												
IP Telephony												
IP PBX		No.										
IP Phones		No.										
Sub Total												
Printers & Others												
Network LaserJet (B/W) Printer		No.										
Media for DAT drive		No.										
Blank Cartridges for Tape Library		No.										
Sub Total												
Spares												
Spares to maintain agreed performance level												
Total												
Software												
Software License - Application												
AMR based Meter Data Acquisition & Analysis Software		No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/ VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Energy Audit Software		No.										
New Connection & Disconnection Management System		No.										
GIS Application		No.										
GIS based Integrated Network Analysis Software		No.										
Management Information System Software		No.										
Identify & Access Management System Software		No.										
MBC Software		No.										
Asset Management System Software												
Maintenance Management System Software												
Sub Total												
Misc Software & Solutions												
Enterprise Management System (EMS) Solution		No.										
Messaging Solutions		No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/ VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Directory Software		No.										
SPAM Filter		No.										
IDS & Firewall System		No.										
Development of Web portal and web self service		No.										
Sub Total												
Basic Software License												
Software Licenses-Server OS		No.										
Software Licenses-Anti Virus		No.										
Software Licenses-Databases		No.										
Sub Total												
Total												
Bandwidth Charges												
Network Connectivity Charges for Primary Link												
Connectivity to the MPLS-VPN cloud	Minimum 20 Mbps											



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/ VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Network Connectivity Charges for Secondary Link Connectivity to the MPLS-VPN cloud	Minimum 20 Mbps											
Network connectivity to Internet Gateway for Primary Link	Minimum 10 Mbps											
Network connectivity to Internet Gateway for Secondary Link from different ISP	Minimum 10 Mbps											
Total												
Implementation Cost												
Development of Commercial database of consumers and Data migration work as per the requirement of utility												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/ VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Installation, Testing and Commissioning/ Customization Cost												
Total												
Grand Total												

Total Data Centre Cost (A) = _____

Form 2: Customer Care Centre cost

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/ VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Hardware/ Equipment												
Server Hardware												
Application Server		No.										
Sub Total												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/ VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
Customer Care related Equipments												
Hand Set		No.										
Head Set		No.										
Call Switching Equipment		No.										
IVRS (Interactive Voice Response System) server		No.										
CTI (Computer telephony Integration) server		No.										
Automatic Call Distributor		No.										
Dialer		No.										
Soft telephone		No.										
Sub Total												
Server Racks												
IDF/MDF Wall Mount Racks		No.										
IDF/MDF Floor Mount Racks		No.										
Sub Total												
Switches												
Layer II Switch		No.										
Sub Total												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/ VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
Routers												
Router for MPLS/ VPN Network		No.	As Customer Care Centre is located in the same premises of Data Centre and linked through LAN, Router not required.									
<i>Sub Total</i>												
Cabling System												
Cables, Jacks etc.		lot										
<i>Sub Total</i>												
UPS & Battery System												
2 /5 KVA UPS		No.										
<i>Sub Total</i>												
IP Telephony												
IP PBX		No.										
IP Phones		No.										
<i>Sub Total</i>												
Workstation & Printers												
Workstation PC (including, Computer chair, table etc.)		No.										
Dot Matrix Printers		No.										
Network LaserJet (B/W) Printer		No.										
Line printer		No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/ VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
Sub Total												
Machines												
Touch Screen KIOSK		No.										
IDMS along with Automatic Token Dispenser Machine		No.										
Cash/ Cheque Collection KIOSK		No.										
Sub Total												
Spares												
Spares to maintain agreed performance level		Rs.										
Total												
Software												
Software License - Application												
Automated Call Distribution Software												
Computer Telephony Integration Software												
Answering Service												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

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Software												
Interactive Voice Response Software												
Softphone Software												
Voice Broadcasting Software												
Sub Total												
Basic Software License												
Software Licenses- Server OS												
Software Licenses- Databases												
Sub Total												
Total												
Implementation Cost												
Installation, Testing and Commissioning/ Customization Cost		Rs.										
Total												
Grand Total												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Customer Care Centre cost (B) = _____



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Form 3: Sub-division Offices cost

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Hardware/ Equipment												
Data Acquisition Server with Front End Processor		No.	As per proposed architecture Centralised Data Acquisition Server is included in the Data Centre.									
Sub Total												
Switches												
Layer II Switch		No.										
Sub Total												
Routers												
Router for MPLS/ VPN Network		No.										
Sub Total												
Cabling System												
Cables, Jacks etc.		lot										
Workstation / Equipment Cords		lot										
Sub Total												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Hardware for AMR based Data Logging System												
Data Converter Unit (At Sub-Station)												
Cabling, connectors and other required hardware												
Sub Total												
Modems for AMR System**												
PSTN Modem												
GSM Modem												
GPRS Modem												
CDMA Modem												
EDGE Modems												
Sub Total												
Spot Billing System												
Hand Held Spot Billing Equipment connected with Portable Printer												
Sub Total												
UPS & Battery System												
2 /5 kVA UPS												
Sub Total												
IP Telephony												
IP PBX												
IP Phones												
Sub Total												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/ VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Workstation PCs, Printers & Others												
Workstation PC (including Computer chair, table etc.)												
Workstation PC (including UPS, Computer chair, table etc.) -(For Sub-Station)												
Dot Matrix Printers												
Slip Printer												
Network LaserJet (B/W) Printer												
A4 Size Inkjet / Bubble Jet printer												
A3 Size Inkjet Color Printer												
Line Printer												
Bar Code Reader												
Sub Total												
Spares												
Spares to maintain agreed performance level												
Total												
Software												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Software License - Application												
Meter Data Acquisition & Analysis Software			As per proposed architecture Centralised Data Acquisition Server is included in the Data Centre.									
Sub Total												
Basic Software License												
Software Licenses-Server OS			As per proposed architecture Centralised Data Acquisition Server is included in the Data Centre.									
Software Licenses-Databases			As per proposed architecture Centralised Data Acquisition Server is included in the Data Centre.									
Sub Total												
Total												
Bandwidth Charges												
Network Connectivity Charges for Primary Link	Minimum 512 Kbps											
Network Connectivity Charges for Secondary Link		Not Required										
Total												
Implementation Cost												
Installation, Testing and Commissioning/												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Customization Cost***												
Total												
Grand Total												

Total other offices cost (C) = _____

Form 4: Other Offices cost

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Hardware/ Equipment												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Switches												
Layer II Switch												
Sub Total												
Routers												
Router for MPLS/ VPN Network												
Sub Total												
Cabling System												
Cables, Jacks etc.												
Workstation / Equipment Cords												
Sub Total												
UPS & Battery System												
2 /5 KVA UPS												
Sub Total												
Workstation PCs, Printers & Others												
Workstation PC (including Computer chair, table etc.)												
Dot Matrix Printers												
A4 Size Inkjet / Bubble Jet printer												
Line Printer												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Bar Code Reader												
Sub Total												
Machines												
Touch Screen KIOSK												
Cash/ Cheque Collection KIOSK												
Sub Total												
Spares												
Spares to maintain agreed performance level												
Total												
Bandwidth Charges												
Network Connectivity Charges for Primary Link Network Connectivity to MPLS-VPN cloud	512 Kbps											
Network Connectivity Charges for Secondary Link	Not Applicable											
Total												
Implementation Cost												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Installation, Testing and Commissioning/ Customization Cost**												
Total												
Grand Total												

Total other offices cost (D) = _____

Form 5: Cost of DGPS Survey, Consumer Indexing & Asset Mapping

Item No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.)
1.0	Procurement of Satellite Imagery and creation of Base Map of project area.	Sq. Km.			
2.0	Locating co-ordinates (Latitude-Longitude) using DGPS, collection/updation of attribute database of following electrical network assets through field survey and development, codification & indexing with their upstream source of supply:	Nos.			
a)	66/33, 66/11, 33/11 kV substations	Nos.			
b)	HT (66, 33, 11 kV) overhead lines/underground cables alongwith associated line equipments such as Poles, RMUs, Distribution Transformers, Capacitors etc.	Kms			
c)	LT overhead lines and underground cables alongwith associated equipments such as	Kms.			



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	poles, feeder pillar boxes etc.			
3.0	Collection/updation of consumer attribute database through door-to-door field survey and development, codification & indexing of the consumers with respective upstream source of supply (poles/feeder pillar boxes/etc.).	Nos.		
4.0	Preparation of digitized electrical network on the base map in the pre-defined scale with features and attributes of assets and consumers collected through DGPS/door-to-door survey for GIS application.	Sq. Km.		

* Taxes & Duties should include CST, VAT, Sales Tax, Service Tax, Entry Tax, Excise Duty etc.

Total Cost of DGPS Survey, Consumer Indexing & Asset Mapping (E) = _____

Form 6: Project Management Cost

Supplier shall quote the implementation cost till the Enterprise-wide rollout of the complete solution (Integrated solution, WAN/ LAN) in the given format. The implementation cost should include all services as specified in Appendix L.

Project Management Cost Including all Taxes & Duties	Unit	
Project Execution Related Cost		
Installation, Testing and Commissioning Cost to Integrate Entire IT Infrastructure	Rs.	
Integration with legacy applications & Data Migration	Rs.	
Training for the Employees	Rs.	
Total	Rs.	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

* Project management cost include CST, VAT, Sales Tax, Service Tax, Excise Duty etc.

Total Project Management Cost (F) = _____

Form 7: Disaster Recovery Centre Cost

Refer to clause 22 of Section G3 of SRS document for the detail scope of work related to the Disaster Recovery Centre.

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Hardware/ Equipment												
Server Hardware												
Database Server for GIS in cluster fail-over Mode		No.										
Database Server for other applications in cluster fail-over Mode		No.										
GIS Application Server		No.										
Application Server for others		No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Data Acquisition Server		No.										
Testing, Development & QA Server		No.										
Access Control Server		No.										
Anti-Virus Server		No.										
DNS Server		No.										
LDAP Server		No.										
Web Server		No.										
Reverse Proxy Server		No.										
EMS/NMS Server with Network Operation Console		No.										
Mail/ Messaging Server		No.										
Sub Total												
Workstation PC (Computer chair, table etc.)		No.										
Sub Total												
Storage & Backup												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Devices												
SAN storage		No.										
Fiber Channel SAN switch		No.										
SAN Cabling		Set										
Backup Server		No.										
Tape Library		No.										
Other Storage Device		No.										
Sub Total												
Server Racks												
IDF/MDF Wall Mount Racks		No.										
IDF/MDF Floor Mount Racks		No.										
Sub Total												
Switches												
Core Switch		No.										
Access Switch		No.										
Distribution Switch		No.										
Layer II Switch		No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Sub Total												
Routers												
Router for MPLS/VPN Network		No.										
Router for Internet Gateway		No.										
Sub Total												
Cabling System												
Cables, Jacks etc.		Lot										
Fiber Optical Cable, Connectors, Patch Cord etc.		Lot										
Sub Total												
UPS & Battery System												
Critical Load UPS		No.										
Service Load UPS		No.										
Sub Total												
Printers & Others												
Network LaserJet (B/W) Printer		No.										
Media for DAT drive		No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB	Freight & Insurance	Excise Duty	Excise Duty	CST/VAT	Sales & other taxes	Any other levies	Total Cost	Total Cost
				(per unit)	(per unit)		(per unit)	%	(per unit)	%	(per unit)	(per unit)
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Blank Cartridges for Tape Library		No.										
Sub Total												
Spares												
Spares to maintain agreed performance level												
Total												
Software												
Software License - Application			As the Enterprise license is proposed for Data Centre, The separate License for this item may not be required									
AMR based Meter Data Acquisition & Analysis Software		No.										
Energy Audit Software		No.										
New Connection & Disconnection Management System		No.										
GIS Application		No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
GIS based Integrated Network Analysis Software		No.										
Management Information System Software		No.										
Identify & Access Management System Software		No.										
MBC Software		No.										
Asset Management System Software												
Maintenance Management System Software												
Sub Total												
Misc Software & Solutions												
Enterprise Management System (EMS) Solution		No.										
Messaging Solutions		No.										
Directory Software		No.										
SPAM Filter		No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/ VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
IDS & Firewall System		No.										
Development of Web portal and web self service		No.										
Sub Total												
Basic Software License												
Software Licenses- Server OS		No.										
Software Licenses- Anti Virus		No.										
Software Licenses- Databases		No.	As the Enterprise license is proposed for Data Centre, The separate License for this item may not be required.									
Sub Total												
Total												
Grand Total												

Total Disaster Recovery Centre Cost (G) = _____



Total Project Area Cost

Nature of Costs		Total (Rs. Cr.)
1		
Form 1: Data Centre Cost	(A)	
Form 2: Customer Care Centre Cost	(B)	
Form 3: Sub-division Offices Cost	(C)	
Form 4: Other Offices Cost	(D)	
Form 5: DGPS Survey	(E)	
Form 6: Project Management Cost	(F)	
Form 7: Disaster Recovery Centre Cost	(G)	
Total (A)+(B)+(C)+(D)+(E)+(F)+(G)		

D.3.2 Project Area without Data Centre & Customer Care Centre

Bidder should use Appendix F to fill following information:

Name of Project Area (town):-	
Number Subdivision Offices under the Project Area:-	
Number of Other Offices under the Project Area:-	

Following formats should be repeated for all the Project Areas (other than the Project Area with Data Centre and Customer Care Centre).



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Bidder shall fill following formats (Form 3 to Form 6) for each Project Area separately.

Form 3: Sub-division Office Cost

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Hardware/ Equipment												
Data Acquisition Server with Front End Processor		As per proposed architecture Centralised Data Acquisition Server is included in the Data Centre.										
Sub Total												
Switches												
Layer II Switch												
Sub Total												
Routers												
Router for MPLS/ VPN Network												
Sub Total												
Cabling System												
Cables, Jacks etc.		lot										
Workstation / Equipment Cords		lot										
Sub Total												
Hardware for AMR based Data Logging System												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Data Converter Unit												
Cabling, connectors and other required hardware												
Sub Total												
Modems for AMR System**												
PSTN Modem												
GSM Modem												
GPRS Modem												
CDMA Modem												
EDGE Modems												
Sub Total												
Spot Billing System												
Hand Held Spot Billing Equipment connected with Portable Printer												
Sub Total												
UPS & Battery System												
2 / 5 KVA UPS												
Sub Total												
IP Telephony												
IP PBX												
IP Phones												
Sub Total												
Workstation PCs, Printers & Others												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Workstation PC (including Computer chair, table etc.) for Office												
Workstation PC (including UPS, Computer chair, table etc.) for Sub-station												
Dot Matrix Printers												
Slip Printer												
Network LaserJet (B/W) Printer												
A4 Size Inkjet / Bubble Jet printer												
A3 Size Inkjet Color Printer												
Line Printer												
Bar Code Reader												
Sub Total												
Spares												
Spares to maintain agreed performance level												
Total												
Software												
Software License - Application												
Meter Data Acquisition &			As per proposed architecture Centralised Data Acquisition Server is included in the Data									



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit) Rs.	Freight & Insurance (per unit) Rs.	Excise Duty %	Excise Duty (per unit) Rs.	CST/VAT %	Sales & other taxes (per unit) Rs.	Any other levies (per unit) Rs.	Total Cost (per unit) Rs.	Total Cost Rs.
Analysis Software		Centre.										
Sub Total												
Basic Software License												
Software Licenses-Server OS		As per proposed architecture Centralised Data Acquisition Server is included in the Data Centre.										
Software Licenses-Databases		As per proposed architecture Centralised Data Acquisition Server is included in the Data Centre.										
Sub Total												
Total												
Bandwidth Charges												
Network Connectivity Charges for Primary Link Connectivity to MPLS-VPN Cloud	Minimum 512 Kbps											
Network Connectivity Charges for Secondary Link	Not Required											
Total												
Implementation Cost												
Installation, Testing and Commissioning/ Customization Cost***												
Total												
Grand Total												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Form 4: Other Offices Cost

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Hardware/ Equipment												
Switches												
Layer II Switch												
Sub Total												
Routers												
Router for MPLS/ VPN Network												
Sub Total												
Cabling System												
Cables, Jacks etc.												
Workstation / Equipment Cords												
Sub Total												
UPS & Battery System												
2 /5 KVA UPS												
Sub Total												
Workstation PCs, Printers & Others												



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
Workstation PC (including Computer chair, table etc.)												
Dot Matrix Printers												
A4 Size Inkjet / Bubble Jet printer												
Line Printer												
Bar Code Reader												
Sub Total												
Machines												
Touch Screen KIOSK												
Cash/ Cheque Collection KIOSK												
Sub Total												
Spares												
Spares to maintain agreed performance level												
Total												
Bandwidth Charges												
Network Connectivity Charges for Primary Link Network Connectivity to MPLS-VPN cloud	Minimum 512 Kbps											
Network Connectivity Charges	Not											



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Item Description	Type (Refer SRS Document for exact Technical Specifications)	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
				Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
for Secondary Link	Required											
Total												
Implementation Cost												
Installation, Testing and Commissioning/ Customization Cost**												
Total												
Grand Total												

Form 5: DGPS Survey Cost

Item Description	Unit	Quantity	FOB (per unit)	Freight & Insurance (per unit)	Excise Duty	Excise Duty (per unit)	CST/VAT	Sales & other taxes (per unit)	Any other levies (per unit)	Total Cost (per unit)	Total Cost
			Rs.	Rs.	%	Rs.	%	Rs.	Rs.	Rs.	Rs.
GPS survey (Field survey)											
Technical audit of	No.										



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

substations													
Technical audit of distribution transformer	No.												
Locating co-ordinates (Latitude-Longitude) and mapping of electrical network entities from 66kV/33 kV system to source of supply (i.e. poles/feeder pillar boxes (over/under ground)) of each consumer and other features using Differential Global Positioning System method.	No.												
Building of GIS network	Km.												
Base maps(municipal map ,or SOI maps, satellite imageries)													
Geo-referencing & Digitization of power distribution network, entities and features including consumers on base map	Km.												
Collection and development of attribute data of each network entity and mapped feature	Km.												
Collection of consumer data through field survey.	No.												
Integration of consumer data with GIS network	No.												
Total													



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

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Form 6: Project Management Cost

Project Management Cost Including all Taxes & Duties	Unit	Project Area wise Cost					Total
		Project Area 1	Project Area 2	Project Area 3	Project Area 4	Project Area 5	
Project Execution Related Cost							
Installation, Testing and Commissioning Cost to Integrate Entire IT Infrastructure	Rs.						
Integration with legacy applications & Data Migration	Rs.						
Training for the Employees	Rs.						
Total	Rs.						
* Project management cost include CST, VAT, Sales Tax, Service Tax, Entry Tax, Excise Duty etc.							

Total Project Area Cost

Nature of Costs		Total (Rs. Cr.)
1		
Form 3: Sub-division Offices Cost	(C)	
Form 4: Other Offices Cost	(D)	
Form 5: DGPS Survey	(E)	
Form 6: Project Management Cost	(F)	
Total (C)+(D)+(E)+(F)		

Total Cost of Project Area = Rs. _____



D.3.3 FMS Charges

		Time shall start just after entire project Go Live					
FMS Charges		Year 1	Year 2	Year 3	Year 4	Year 5	Total
FMS Charges	Rs.						0.00

Total FMS Charges (G) = _____

D.3.4 Total Cost Summary

Costs	Total (Rs. Cr.)
1	
Project Area with Data Centre & Customer Care Centre Cost	(1)
Project Area without Data Centre & Customer Care Centre Cost 1	(2)
Project Area without Data Centre & Customer Care Centre Cost 2	(3)
.....	(4)
Total FMS Charges	(5)
Total	

Total Cost of ownership (1+2+3+4+5) = Rs. _____

Price proposals will be compared based on the Total cost of ownership mentioned above.



D.4 Checklists

Please submit a copy of this section with cover letter while submitting the proposal.

D.4.1 Mandatory forms that needs to be submitted

Table 17: Check List for Mandatory Forms

S.No.	Item	Furnished
1	Documents against eligibility criteria	Yes/ No
2	Bid Security	Yes/ No
3	One original copy duly signed- Technical Proposal	Yes/ No
4	Four copies of Technical Proposal - Hard copies	Yes/ No
5	Five copies of Technical Proposal - Soft copies	Yes/ No
6	One original copy duly signed- Price proposal	Yes/ No
7	Four copies of Financial Proposal - Hard copies	Yes/ No
8	Five copies of Financial Proposal - Soft copies	Yes/ No
9	Proof of turnover and networth for the last three audited financial years of Bidder, consortium member (if any) and sub-contractors	Yes/ No
10	CV of key personnel in suggested format	Yes/ No
11	Proposed SLA template	Yes/ No
12	Filled-in copy of Bidding forms (Section V)	Yes/ No
13	Receipt of purchase of tender	Yes/ No

D.4.2 Compliance checklist

Table 18: Check List for proper Documentation & Compliance

S.No.	Item	Furnished
1	Please confirm you agree to all clauses specified in the Section II, ITB	Yes/ No
2	Please confirm you have submitted all the mandatory forms specified in Appendix D (Technical & Financial Proposal)	Yes/ No
3	Please confirm you have noted the bid submission deadline specified in Section III, BDS (ITB 23.1)	Yes/ No
4	Please confirm you have noted that the performance security will be	Yes/ No



	furnished within time period as specified in Section II, ITB clause 42.1	
5	Please confirm you have provided all document proof to substantiate you qualifying the eligibility criteria as mentioned in Section IV	Yes/ No
6	Please confirm you have complied with the proposed solution architecture specified in SRS Document	Yes/ No
7	Please confirm you have complied with all services specified in the scope of services mentioned in Section VI	Yes/ No
8	Please confirm that you comply with all clauses specified in the General Conditions of Contract specified in Section VII	Yes/ No
9	Please confirm that you comply with all clauses specified in the Special Conditions of Contract specified in Section VIII	Yes/ No
10	Please confirm that all goods (software and hardware) and services have been included in the price proposal and is complete in all respects without any deviation/ missing items	Yes/ No
11	Please confirm that you have not submitted any alternate proposal	Yes/ No
12	Please confirm that you have noted the SLA guidelines and penalty clauses applicable as specified in Appendix C.	Yes/ No
13	Please confirm you have provided sufficient Bid security in proper form as specified in clause 20, Section II ITB	Yes/ No
14	Please confirm you have responded to all mandatory technical specification given in Appendix A	Yes/ No
15	Please confirm you have responded to all technical specifications (applications) given in the Appendix B.1	Yes/ No
16	Please confirm you have responded to all technical specifications (hardware) given in the Appendix B.2	Yes/ No
17	Please confirm that you have checked the final quote provided in Appendix D (Price Proposal)	Yes/ No

E Appendix E - Evaluation Methodology

- Alternate bids are not allowed
- Only bids from empanelled (by the nodal agency) bidders shall be evaluated
- The evaluation team will thoroughly review the proposals submitted by various bidders / consortiums. The broad evaluation will be based as following:-
 - Technical Proposal: 50% Weight
 - Price Proposal: 50% Weight
- Pre-demo meetings will be conducted with all the bidders
- The Metering, Billing, Collection modules of the software solution being offered by the ITIA must have been proven and tested for robustness, scalability and functionality in large power distribution utility environment. These applications shall either be standard OEM products or developed /productized applications of the ITIA, with proven track record. The application must have implemented in atleast one power distribution utility worldwide in a WAN environment. The implementation certificate should be provided for the same.

Qualifying Requirement for MBC application

In case SI is not providing MBC application of his own / developed by him, the following QR is applicable for outsourced solution-

1. The MBC application is available as off the shelf product of an OEM and have been implemented and successfully under operation for a period of at least 1 years for at least five lakhs consumers in utility. The solution should be running on a web based centralized WAN environment. The bidder should produce a copy of certificate for successful completion of user acceptance test.

OR

In case the offered MBC solution is not from an OEM then the bidders (SI) have an option to supply customized solution implemented in any of the Indian power utilities and it should meet the following condition:

The application must be under operation for at least 3 years in Indian power utilities for a consumer base of 10 lakhs covering Domestic, Non-domestic and HT consumers and the solution, should be running on a web based centralized WAN environment at least for a period of one year.

2. The software which work only in decentralized environment (spot billing applications) shall not be considered

3. The bidder must provide documentary evidences including screen shots describing functionalities of the proposed solution and certificate from the purchaser / owner regarding successful operation of the implemented application.



- Each of the bidder will be requested to demonstrate the product and services
- The technical evaluation will commence post the demonstrations
- Based on multiple parameters, the evaluation team will calculate the technical evaluation score for each Supplier at the end of this phase
- Utility, in observance of best practices, shall:
 - Maintain the bid evaluation process strictly confidential
 - Reject any attempts or pressures to distort the outcome of the evaluation, including fraud and corruption
 - Strictly apply only and all of the evaluation and qualification criteria specified in the Bid document

E.1 Single-Stage: Two-Envelope Bidding Procedure

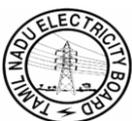
In the Single-Stage: Two-Envelope bidding procedure, Bidders should submit two sealed envelopes simultaneously, one containing the Technical Proposal and the other the Price Proposal, enclosed together in an outer single envelope. Initially, only the Technical Proposals are opened at the date and time advised in the Bidding Document. The Price Proposals remain sealed and are held in custody by the Purchaser. The Technical Proposals are evaluated by the Purchaser. No amendments or changes to the Technical Proposals are permitted. The objective of the exercise is to allow the Purchaser to evaluate the Technical Proposals without reference to price.

Bids of Bidders which do not conform to the mandatory requirements may be termed as non-responsive and will not be evaluated further. Following the approval of the technical evaluation, and at an address, date and time advised by the Purchaser, the Price Proposals are opened in public. The Price Proposals are evaluated and, following approval of the price evaluation, the Contract is awarded to the Bidder whose Bid has been determined to be have scored maximum in the composite formula as defined below:

Total Score = 50% x Technical Proposal Score + 50% x Price Proposal Score

E.2 Evaluation and Comparison of bids

Initially the Supplier's responses are reviewed for compliance with the Commercial terms and conditions. The Suppliers who fail to comply with any of the commercial terms and conditions mentioned may be termed as non-responsive and will not be evaluated further. For those Suppliers who have qualified the commercial terms and conditions Technical evaluation will be conducted followed by the Price-Bid evaluation. The Suppliers who qualify the minimum technical requirement will be considered for the price-bid evaluation. The price bids will remain sealed until the technical evaluation is complete.



Technical Evaluation

The technical bid has a weightage of 50%. Technical evaluation will happen in two stages.

Stage-1: Preliminary Evaluation

In stage-1, the following shall be confirmed: Deviations, Submission of Bank Guarantee, Acceptance of terms and conditions, Acceptance to scope of work and compliance to mandatory technical requirements (as mentioned in Appendix A). In case the bid doesn't meet all the mandatory requirements, the bid shall be termed as non-responsive and will not be evaluated further

Stage-2

The distribution of weights shall be as follows:

Table 19: Distribution of weights for bid evaluation

No	Description	Weight
A	Technical Proposal	50
1	Technical solution as per SRS (G2)	19
2	Approach & Methodology	4
3	Project Experience	14
4	Team Details (CV)	5
5	Firm Details	8
B	Price Proposal	50
	Total Marks	100

Details for each of the above parameters is as mentioned subsequently.

A. Technical Proposal: Following is the methodology which shall be used to evaluate the various parameters under the technical proposal.

A.1 Technical solution Evaluation

Table 20: Score for Technical Evaluation

No	Description	Maximum Score
	Technical Solution Score	19
i)	G2 Section of SRS (refer Appendix B.1)	19
	Each module has a relative importance based on the functionality/ requirements.	



	<p>Module Weightage = Relative Importance of Module / Summation of Relative Importance of Modules * 19 (max module score)</p>	
	<p>Each module has requirement which has been classified and given score based on the following:</p> <ul style="list-style-type: none"> ○ Vital: 3 ○ Essential: 2 ○ Desirable: 1 	
	<p>Supplier shall submit their response (self evaluation as per the format mentioned in Appendix D.2.2) against the requirement and score shall be given as per the following:</p> <ul style="list-style-type: none"> ○ Functionality Not Avail: 0 marks ○ Available with modifications / workaround: 1 marks ○ Functionality available: 2 marks 	
ii)	G3 Section of SRS (refer Appendix B.2)	No Marks
	<p>The entire G3 section is the minimum requirement (and hence mandatory) for the Utility and needs to be supplied as per the specifications. In case the bidder decides to take any deviation, the same has to be clearly mentioned under the deviations (D.2.12). Utility shall decide if the same is acceptable or not. In case the same is not acceptable, the bid shall be rejected and financial bid of the bidder shall not be opened.</p>	

Bidder's self-response to the solution (refer A.1 above) shall be as per the manner as indicated in Appendix-B.

The final score for Technical Specifications (G2 Section of SRS) will be calculated as follows:

Table 21: Calculation of Technical Score

Calculation of Score for Technical Solution		
Step	Description	Calculation
1	Each requirement will have maximum score	Criticality X Options Available for Supplier



2	Supplier will get the score for each requirement	Criticality X Options Chosen by Supplier
3	Weightage Score Calculation per module	Module Score / Maximum Module Score * Module weightage
4	Weightage Score Calculation per TS	TS Score / Maximum TS Score * TS weightage
5	Final Score	Summation of weightage score of each module (refer step 3 & 4) of G2

For qualifying, Supplier must score minimum of 10 marks in G2 Section and should comply with all requirements of G3 section. In case the bidder has taken any deviation in G3 sections, Utility shall decide whether the same shall be acceptable or not.

A.2 Approach & Methodology

This section shall be assigned 4 marks. The following table elaborates various requirements within A&M and the distribution of marks:

- Understanding of Utility and its requirement (Also provide Prior interaction with Utility, if any) (1.5 marks)
- Details of proposed methodology (0.5 marks)
- Resource planning and estimation (0.5 marks)
- Detailed work-plan with timelines (1.5 marks)

A.3 Project Experience: Shall be assigned 14 marks. The distribution of marks shall be as follows:

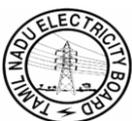
- Power Sector Experience (5.5 marks)
- Usage of project (2 marks)
- Size of GSP, NSP and MDASP (1.5 marks)
- IT Experience: Application Modules implemented (5 marks)

A 4 CV: Shall be assigned 5 marks. Following is the list of categorization of requirement of personnel:

- GIS (Customer Indexing/ Asset Mapping/ Integrated Network Analysis)
- Meter Data Acquisition/ Energy Audit
- Billing/Collection/New Connection/Disconnection
- Web Self Service/ Security/ MIS
- Customer Care

A.5 Firm details: Shall be assigned 8 marks. The distribution of marks shall be as follows:

- i. Cumulative Turn-Over in the last 3 financial years (2.0 marks)
- ii. Level of CMM/CMMI certification (2.0 marks)
- iii. ISO certification (2.0 marks)
- iv. No. of locations in India (2 marks)



Bidders need to score a minimum score of “40” out of 50 in the technical evaluation; else the bid shall be termed as non-responsive and will not be evaluated further.

B. Price-Bid Evaluation

The Price-Bid evaluation is done only for those bids which are responsive and which have a Final Technical score which is more than or equal to the minimum score for technical proposal mentioned in sub-section A above.

The net cost quoted will be calculated as simple addition of all the cost mentioned in the price proposal (Clause D.3, Appendix D). The price proposal score shall be calculated with following formula:

Price proposal score = $(LP/FP)*50$, where
LP: Lowest Price offer; FP: Firm's Price

C. Total Score

Total score shall be calculated as below:

Total Score = Technical Proposal Score + Price Proposal Score

The bid with the highest overall score will be awarded the project.



F Appendix F - Geographical & Administrative Information

Following is the list of towns which are included under the scope of work

Table 22: Geographical & Administrative Information of all the Project Areas

General Description	Detail
Name of town with HQ	Chennai
Name of town with Data Centre	Chennai
Name of town with Customer Care Center	Chennai

Sr. No.	Name of Project Area (town)	Number of Sub divisions office	Number of Other Offices	Nearest Railway Station to HQ	Nearest Functional Airport to HQ	Total Area of Coverage (Sq.km)	Total Population (as per 2001 census)
1	Chennai	75	312	Chennai	Chennai	926	6560242
2	Chengalpet	1	5	Chennai	Chennai	6.09	62582
3	Maraimalainagar	1	4	Chennai	Chennai	49.23	48463
4	Dharapuram	1	5	Tirupur	Coimbatore	7.02	64984
5	Palladam	2	7	Coimbatore	Coimbatore	19.42	30016
6	Comibatore	5	35	Coimbatore	Coimbatore	150	1461139
7	Coonoor	1	4	Coonoor	Coimbatore	15.05	50079
8	Gudalur	1	4	Ooty	Coimbatore	4	43096
9	Mettupalayam	1	5	Mettupalayam	Coimbatore	7.20	66887



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

10	Pollachi	1	3	Pollachi	Coimbatore	18.90	128458
11	Tirupur	2	12	Tirupur	Coimbatore	27.40	550826
12	Udhagamandalam	1	7	Ooty	Coimbatore	30.67	93973
13	Udumalpet	1	5	Udumalpet	Coimbatore	7.40	59668
14	Valparai	1	6	Pollachi	Coimbatore	217	95107
15	Attur	1	4	Attur	Coimbatore	40	58000
16	Bhavani	1	3	Erode	Coimbatore	2.75	104646
17	Edappady	2	2	Sanakri	Coimbatore	28.22	48815
18	Erode	4	16	Erode	Coimbatore	91.49	314994
19	Gobichettypalayam	1	4	Erode	Coimbatore	7.51	55158
20	Mallasamudram	1	3	Salem	Coimbatore	10.81	38900
21	Mettur	2	5	Mettur	Coimbatore	14.75	53633
22	Namakkal	1	4	Salem	Trichy	13.80	53055
23	Periyasemur	0	1	Erode	Coimbatore	10.10	32024
24	Rasipuram	2	3	Salem	Trichy	8.28	50100
25	Salem	7	34	Salem	Coimbatore	91.54	696760
26	Sathyamangalam	2	3	Erode	Coimbatore	2.92	33722
27	Tiruchengode	2	5	Erode	Coimbatore	17.64	80187
28	Vellakoil	2	5	Erode	Coimbatore	64.75	34438
29	Bodinayakanur	0	3	Theni	Madurai	6.88	73410
30	Chinnmanur	1	2	Theni	Madurai	25.95	38360
31	Devakottai	1	2	Devakottai	Trichy	12.50	40386
32	Dindigul	2	8	Dindigul	Madurai	14.01	196955
33	Gudalooore	0	1	Theni	Madurai	32	36000
34	Kambam	1	3	Theni	Madurai	4.50	58891
35	Karaikudi	1	3	Karaikudi	Trichy	13.75	127717



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

36	Keelakarai	1	1	Ramanathapuram	Madurai	2.50	30412
37	Kodaikanal	1	3	Kodaikanal Road	Madurai	21.50	32969
38	Madurai	8	47	Madurai	Madurai	90.80	1203095
39	Melur	1	2	Madurai	Madurai	15.02	33881
40	Palani	1	3	Palani	Madurai	6.63	67231
41	Paramakudi	1	3	Paramakudi	Madurai	3	84321
42	Periyakulam	1	2	Theni	Madurai	2.89	42012
43	Ramanathapuram	1	4	Rameswaram	Madurai	6	62050
44	Rameswaram	1	1	Rameswaram	Madurai	4	37968
45	Sivagangai	1	3	Sivagangai	Madurai	9.27	40220
46	Theni	2	5	Theni	Madurai	22.23	85498
47	Thirumangalam	1	4	Madurai	Madurai	16.74	43631
48	Usulampattai	1	2	Madurai	Madurai	13.17	30601
49	Amabasamudram	1	2	Amabasamudram	Tuticorin	17.34	58485
50	Aruppukottai	1	4	Aruppukottai	Tuticorin	14.56	84029
51	Kadayanallur	1	4	Kadayanallur	Madurai	100	75612
52	Kollencode	1	2	Parasala	Trivendrum	7.92	34425
53	Kovilpatti	1	5	Tuticorin	Tuticorin	43.30	87450
54	Muthiahpuram	1	2	Tuticorin	Tuticorin	32.00	31813
55	Nagercoil	2	9	Nagercoil	Trivendrum	19.37	208179
56	Puliyangudi	1	2	Kadayanallur	Madurai	55.17	60080
57	Rajapalayam	2	8	Rajapalayam	Madurai	11.86	122307
58	Sankarankovil	1	3	Sankarankovil	Tuticorin	80	53606
59	Sattur	1	1	Sattur	Madurai	4.50	31443
60	Sivagasi	1	5	Sivagasi	Madurai	6.89	121358
61	Srivilliputhoor	1	4	Srivilliputhoor	Madurai	5	73183



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

62	Tenkasi	1	4	Tenkasi	Tuticorin	26.15	63432
63	Thoothukkudi	2	9	Tuticorin	Tuticorin	110	243415
64	Tiruchendur	1	2	Tuticorin	Tuticorin	18.60	37101
65	Tirunelveli	3	17	Tirunelveli	Tuticorin	900	433352
66	Vikramasingapuram	1	2	Ambasamuthiram	Tuticorin	38.57	54795
67	Virudhunagar	1	5	Virudhunagar	Madurai	6.60	72081
68	Aranthangi	2	3	Aranthangi	Trichy	7.56	34134
69	Jayankondam	1	3	Viruthachalam	Trichy	28.49	31268
70	Karur	5	11	Karur	Trichy	36.50	153365
71	Kumbakonam	2	6	Kumbakonam	Trichy	12.58	160767
72	Manapparai	1	4	Manapparai	Trichy	15.70	35770
73	Mannarkudi	2	6	Needamangalam	Trichy	11.50	61588
74	Mayiladuthurai	1	3	Mayiladuthurai	Trichy	11.27	84505
75	Nagapatinam	1	5	Nagapatinam	Trichy	16.00	93148
76	Pattukottai	1	3	Pattukottai	Trichy	9	65533
77	Perambalur	1	5	Ariyalur	Trichy	20.59	37631
78	Pudukottai	2	7	Pudukottai	Trichy	12.95	109217
79	Sirkali	0	2	Sirkali	Trichy	13.21	32228
80	Thanjavur	1	8	Thanjavur	Trichy	36.31	215314
81	Thuraiyur	1	2	Kulithalai	Trichy	14.10	31005
82	Tiruchirappalli	4	26	Trichy	Trichy	47.10	866354
83	Tiruvarur	1	4	Tiruvarur	Trichy	10.48	56341
84	Vedharniyam	1	1	Nagapattinam	Trichy	16	31627
85	Ambur	2	5	Ambur	Chennai	17.67	99624
86	Arakkonam	1	3	Arakkonam	Chennai	9.07	77500
87	Arcot	1	3	Arcot	Chennai	7.49	50267



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

88	Dhamapuri	2	6	Dhamapuri	Chennai	9.54	64496
89	Gudiyatham	1	4	Gudiyatham	Chennai	4.71	100115
90	Hosur	3	8	Hosur	Bangalore	11.71	84394
91	Kanchipuram	2	8	Kanchipuram	Chennai	11.61	198170
92	Krishnagiri	2	4	Jolarpet	Bangalore	11.50	64587
93	Melvisharam	1	1	Walajah	Chennai	8.67	35060
94	Pernampattu	1	1	Ambur	Chennai	3.61	41499
95	Thirupathur	1	4	Tirupattur	Chennai	4.68	60876
96	Thiruvallur	3	4	Thiruvallur	Chennai	7.15	52592
97	Tiruttani	3	6	Tiruttani	Chennai	6.75	44066
98	Vaniyambadi	2	6	Vaniyambadi	Chennai	9.54	103950
99	Vellore	3	12	Vellore	Chennai	27.25	451000
100	Arni	1	4	Kalambur	Chennai	11.62	60815
101	Chidambaram	1	3	Chidambaram	Trichy	4.80	57733
102	Cuddalore	2	8	Cuddalore	Chennai	27.69	158634
103	Kallakurichi	1	3	Tindivanam	Trichy	11.63	36791
104	Nellikuppam	1	2	Nellikuppam	Chennai	4.50	44222
105	Panruti	1	3	Panruti	Chennai	18	55346
106	Tindivanam	3	4	Tindivanam	Chennai	22.33	67737
107	Tiruvannamalai	1	6	Tiruvannamalai	Chennai	13.64	130567
108	Tiruvettipuram	1	2	Kanchipuram	Chennai	10.76	35201
109	Villupuram	2	9	Villupuram	Chennai	8.60	95455
110	Virudhachalam	1	4	Vridhachalam	Trichy	17.60	60164



G Appendix G - List of Offices for WAN Connectivity

List of offices of Utility:

* Levels refer to the position in the hierarchy of the office in the administrative setup assuming Head Quarter as level 1.

Table 23: List of Offices for WAN Connectivity

S.No	Name of Town	Name of Office at Level 2* Regional office	Name of Office at Level 3* Circle Office	Name of Office at Level 4* Division Office	Name of Office at Level 5* Sub Division Office	Name of Office at Level 6* Section Office
1	Dindigul	Madurai	Dindigul	N/Dindigul	T/Dindigul	Nagalnagar
						Begampur
						Pandiyannagr
						Nehrujinagar
						T/Dindigul
W/Dindigul	Rockfort					
2	Palani			Palani	T/Palani	Adivaram
						T/Palani
3	Kodaikanal			Batlagundu	Kodaikanal	T/E/kodaikanal
						T/W/kodaikanal
4	Theni		Theni	Theni	Town/Theni	Town/Theni
					Rural/Theni	North/Theni



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

5	Bodinayakkanur			Bodinayakkanur	Town/Bodi	
					East/Bodi	
					West/Bodi	
6	Periyakulam		Periyakulam	West/Periyakulam	Town/Periyakulam	
7	Chinnamanur		Chinnamanur	Chinnamanur	Town/Chinnamanur	
8	Kambam		Kambam	Kambam	Town/Kambam	
				Kambam	North/Kambam	
9	Gudaloore			Kambam	Gudaloore	
10	Ramanathapuram	Ramanathapuram	Ramanathapuram	Town /Ramanathapuram	Town/South/Ramanathapuram	
					Town/North/Ramanathapuram	
11	Keelakarai					Keelakarai
12	Rameswaram			Rural / Ramanathapuram		Rameswaram
13	Paramakudi		Paramakudi	Town /Paramakudi	Town/North/Paramakudi	
					Town/South/Paramakudi	
14	Sivagangai		Sivagangai	Town/Sivagangai	Town/Sivagangai	
15	Karaikudi	Sivagangai	Karaikudi	Karaikudi	Town/North/Karaikudi	
					Town/South/Karaikudi	
16	Devakottai		Devakottai	Devakottai	Town/Devakottai	
17	Melur		Madurai/East	North/Melur	Town/Melur	
18	Usilampatty	Madurai	Usilampatty	Town/Usilampatty	Town/Usilampatty	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

						P.P.Chavadi
						Koodal Nagar
					South/Arasaradi	Urban/ South/Arasaradi
						Urban/Palanganatham
						Alwarnagar
						S.S.Colony
					Pasumalai	Pasumalai
						TVS nagar
						Town/ Thirupparankundram
						Rural/ Thirupparankundram
						Jaihindpuram
						Jeevanagar
					Rural/ Anuppanadi	Rural/ Anuppanai
						Chinthamani
						Viraganur
						Avaniyapuram
						Perungudi
						Villapuram
						Panaiyur
21	Karur	Trichy	Karur	Urban/Karur	Urban/Karur	South/Karur
						North/Karur
						West/Karur
					North/Karur	O&M/Karur
						Vengamedu



TAMIL NADU ELECTRICITY BOARD
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				Puliyur	Gandhigramam
				Velliyana	T.Malai
				South/Karur	Rural/Karur
					South/Karur
22	Trichy	Trichy Metro	East/Trichy		K.K.Nagar
					Mannarpuram
					Subramnaiyapuram
					Sempattu
					Crowford
					Ariyamangalam
			Thiruverumbur		Kalkandarkottai
					Kattur
					Thennur
			Thennur		Thillainagar
					Waraiyur
					Srinivasanagar
					Rockfort
			Rockfort		Chinthamani
	Mainguard gate				
	Contonment(up.sec)				
Palakarai		Palakarai			
		Gandhimarket			
		Junction			
		Mahalakshminagar			
		Ponnagar			
	Senthaneerapuram				
23	Thuraiyur		Thuraiyur	N/Thuraiyur	Urban/Thuraiyur



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

24	Manapparai		Manapparai	Manapparai	Town/Manapparai
					East/Manapparai
					Rural/Manapparai
25	Pudukkottai	Pudukkottai	Pudukkottai	Town/Pudukkottai	Town/North/Pudukkottai
					Town/East/Pudukkottai
					Town/West/Pudukkottai
					Town/Central/Pudukkottai
				Rural/Pudukkottai	O&M/Thiruvappur
26	Aranthangi		Aranthangi	Town/Aranthangi	Town/Aranthangi
				Rural/Aranthangi	U/W/aranthangi
27	Perambalur	Perambalur	Perambalur	Town / Perambalur	Town / Perambalur
					South / Perambalur
					North / Perambalur
28	Jayankondam		Ariyalur	Jaynkondam	South Jayankondam
					North Jayankondam
29	Thanjavur	Thanjavur	U/Thanjavur	U/Thanjavur	Arulananda Nagar(Upgraded section)
					Court Road
					Manambuchavadi
					Palace
					Karanthai
					Eswari Nagar



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

30	Kumbakonam			Kumbakonam	T/Kumbakonam	T/E/Kumbakonam
						T/S/Kumbakonam
31	Pattukkottai			Pattukkottai	R/Kumbakonam	T/N/Kumbakonam
						T/W/Kumbakonam
32	Mannargudi			Mannargudi	T/Mannargudi	U 33/11KV SS/ Kumbakonam
						T - I /Pattukkottai
33	Nagapattinam			Nagapattinam	R/Mannargudi	T - II /Pattukkottai
						T I/Mannargudi
34	Vedaraniyam			Nagapattinam	N/Nagapattinam	T II/Mannargudi
						W/Mannargudi
35	Mayiladuthurai			Mayiladuthurai	Vedaraniyam	N/Mannargudi
						E/Mannargudi
36	Sirkali			Sirkali	T/Tiruvarur	T/Nagapattinam
						Velipalayam
37	Tiruvarur			Tiruvarur	T/Tiruvarur	Nagore
						Vedaraniyam
38	Erode	Erode	Erode	Urban	Town/Erode	E/Mailaduthurai
						W/Mayiladuthurai
						T/Sirkali
						T/Thiruvarur
						S/Thiruvarur
						N/Thiruvarur
						T/Erode
						S/Erode
						W/Erode
						E/Erode
						Muthampalayam



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

				West/Erode	Thindal Narayanavalasu E.K.Valasu
				V.P.Chatram	T/V.P.C R/V.P.C Asokapuram Karungalpalayam
				South/Erode V.P.Chatram	R/Erode B.P.Agaraharam
39	Periyasemur				
40	Vellokoil		Kangeyam	South/Vellokoil North/Vellokoil	Town/Vellokoil Rural/Vellokoil East/Vellokoil West/Vellokoil
41	Gobi		Gobi	West/Gobi	Town/Gobi Pudupalayam
42	Bhavani	Gobi	Bhavani	North/Bhavani	Town/Bhavani Kalingarayanpalayam
43	Sathyamangalam		Sathyamangalam	East/Sathy West/Sathy	North/Sathy South/Sathy
44	Namakkal		Namakkal	Town/Namakkal	Town/south/Namakkal Town/North/Namakkal
45	Thiruchengode	Namakkal	Thiruchengode	South/T'gode N/Thiruchengode	South/T'gode Kuttapally N/Thiruchengodu C/Thiruchengodu
46	Rasipuram		Rasipuram	T/Rasipuram	T/Rasipuram



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

				R/Rasipuram	R/S/Rasipuram
47	Mallasamudram		Thiruchengode	Mallasamudram	T/mallasamudram
					Kalipatty
					R/Mallasamudram
48	Edapady			T/Edapady	T/Edapady
				R/Edapaddy	R/Edapaddy
49	Mettur	Mettur	Mettur	Distribution/ Mettur	T/Mettur
				Sampally	R/Mettur
					Sampally
					Seelanaickenpatty
				Gugai	Gugai
					Linemedu
					Nethimedu
			Town/Salem	Kitchipalayam	Bazzar
					Kitchipalayam
					Kalarampatty
					Dadagapatty
					Central
					Fort
					ThillaiNagar
					Ponnamapet
				Swarnapuri	Swarnapuri
					Narasohipatti
					Mallamoopampatti
			West/Salem	Suramangalam	Suramangalam
					Thiruvagoundanur
					Nethimedu Rural



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

						Shivadapuram
					Shevapet	Shevapet
						Arisipalayam
						Kondalampatti
						Meyyanoor
				East/Salem	Maravaneri	Maravaneri
						Hasthampatti
						Gorimedu
						Kannankurichi
				Udayapatty	Udayapatty	Udayapatty
						Ammamet
						Veeranam
51	Attur			Attur	Attur / Town	Town/Attur
						North/Attur
						South/Attur
52	Coimbatore	Coimbatore	Coimbatore/ Metro	C/ Coimbatore	C/Coimbatore	Town Hall
						Bazar/East
						Lawly Road
						Ukkadam
						Selvapuram
						Race Course
						Bazar/West
						R.S.Puram/North
						R.S.Puram/South
						P.N.Palayam
						Puliakulam
						R.N.Puram
						Tatabad



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					RamNagar
					Sanganoor
					SaibabaColony
					Rathinapuri
					Kavundampalayam
					Velandipalayam
					Ganeshnagar
					T/Peelamedu
					T/E/Peelamedu
					Ganapathy
					Avarampalayam
					Thanneerpandal
					W/Singanallur
					E/Singanallur
					Sowripalayam
					Varadharajapuram
					Ondipudur
53	Mettupalayam	Coimbatore/North	Mettupalayam	Town/Mettupalayam	T/N/Mettupalayam
					T/S/Mettupalayam
					U/ Mettupalayam
54	Palladam	Coimbatore/ South	Palladam	Town / Palladam	Town/Palladam
					Vadugapalayam
					Naranapuram
					Town/North/ Palladam



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

				Rural / Palladam	Madapur
55	Gudalur		Ooty	Gudalur	Town/ Gudalur Lower/ Gudalur Town/ South/ Gudalur
56	Udagamandalam	Nilgiris	Udagamandalam	T / Udagamandalam	Commercial Road Ettins Road Hospital Road Tamilagam Lakeview
57	Coonoor		Coonoor	Town / Coonoor	Sims Park Mount Road Mount Pleasant
58	Tirupur	Tirupur	Tirupur	Town/ North/ Tirupur	Town/ North/ Tirupur Town/ West/ Tirupur Rayapuram Bridge way colony Kongunagar
				Town/ South/ Tirupur	Town/ South/ Tirupur Townhall Bazar Town/ East/ Tirupur Bharathinagar
59	Udumalpet	Udumalpet	Udumalpet	T/Udumalpet	T/Udumalpet GandhiNagar R/E/Udumalpet



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

60	Pollachi	Villuppuram	Cuddalore	Pollachi	C/Pollachi	Mahalingapuram T/Pollachi										
61	Valparai			Dharapuram	Dharapuram	Angalakurichi	Valparai	S/Valparai N/Valparai Mudis Sholayar Nagar Iyerpadi								
								62	Dharapuram	Dharapuram	E/Dharapuram	T/Dharapuram E/Dharapuram R/Dharapuram				
												63	Cuddalore	Cuddalore	Town/NorthCuddalore	New Town Puduppalayam Urban/Manjakuppam Jothi Nagar
															TownSouth/Cuddalore	Thiruppaliyur Town/Cuddalore Port Rural North /Cuddalore Port
								64	Panruti	Cuddalore	Panruti	Town/Panruti	Town/Panruti Rural/East/Panruti			
65	Nellikuppam			Nellikuppam	Town / Nellikuppam	Town/Nellikuppam										
66	Chidambaram			Cuddalore	Chidambaram	Town/Chidambaram	Urban/West/Chidambaram Urban/East/Chidambaram									
							67	Vridhachalam	Vridhachalam	Town/Vridhachalam	Town/Vridhachalam					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

						Rural / North/Vridhachalam
						Urban / Kandiyan Kuppam
68	Arani			Arani	Town/Arani	Town East/Arani
						Town West/Arani
						Town North/Arani
69	Tiruvannamalai		Tiruvannamalai	West/T.V.Malai	Town/T.V.Malai	Town East/T.V.Malai
						Town West/T.V.Malai
						Kilnathur
						Thamarai Nagar
70	Tiruvettipuram			Cheyyar	Town/Cheyyar	Town/Tiruvettipuram
71	Villupuram		Villupuram	Villupuram	T/Villupuram	T-I/Villupuram
						T-II/Villupuram
						T-III/Villupuram
						R/E/Villupuram
					R/Villupuram	R/S/Villupuram
						R/W/Villupuram
72	Tindivanam		Villupuram	Tindivanam	T/Tindivanam	T-I/Tindivanam
						T-II/Tindivanam
						Manur
					W/Tindivanam	
					E/Tindivanam	
73	Kallakurichi			Kallakurichi	T/Kallakurichi	T/Kallakurichi
						R/S/Kallakurichi
74	Chengalpattu	Chennai/South	Chengalpattu	Chengalpattu	North/Chengalpattu	CGL - Annanagar
						Town/Chengalpattu



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

75	Maraimalainagar			Maraimalainagar	Maraimalainagar	Maraimalainagar - I		
						Maraimalainagar - II		
76	Chennai	Chennai/North	Chennai/Central	ANNA SALAI	ANNA SALAI	Kattankolathur		
						CHINDARIPET	ANNA SALAI	
							ESPLANADE	CHEPAUK
								G.P. ROAD
								GOVT. ESTATAE
					EGMORE	KILPAUK	T.V.PET	
							PULIANTHOPE	CHINDARIPET
								PUDUPET
				ESPLANADE				
				MANNADY				
				KILPAUK		MUTHIYALPET		
						PARK TOWN		
						S.K.NAGAR		
					FLOWER BAZAAR			
				PULIANTHOPE	PULIANTHOPE	EGMORE(Up.Secs)		
						PANTHEON ROAD		
PERIAMEDU								
VEPERY								
PULIANTHOPE	PULIANTHOPE	KELLYS						
		KILPAUK						
		NAMALWARPET						
		PURASWALKAM						
PULIANTHOPE	PULIANTHOPE	CHOO LAI						
		COOKSROAD						
		OTTERI						



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

				MYLAPORE	SOWCARPET	PULIANTHOPE
						KONDITHOPE
						SEVEN WELLS
						SOWCARPET EAST
						SOWCARPET WEST
				SOWCARPET CENTRAL		
				MYLAPORE	MYLAPORE	ALWARPET
						LUZ
						MYLAPORE EAST
						MYLAPORE WEST
						COLLEGE ROAD(UP.Secs)
						GOPALAPURAM
						NUNGAMBAKKAM
						T.LIGHT
					ROYAPETTAH - I	ROYAPETTAH
						ICE HOUSE(Up.sec)
				TRIPPLICANE		
				BALAJI NAGAR		
				WHITES ROAD		
				SANTHOME	FORE SHORE EST.	
MANDAVELI						
SANTHOME						
T.NAGAR	SAIDAPET	CIT NAGAR - II				
	SAIDAPET CON.	SAIDAPET EAST				
		CIT NAGAR - I				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

			Chennai/North	PERAMBUR	T.NAGAR	SAIDAPET WEST
						MAMBALAM CEN.
						MAMBALAM EAST
					MAMBALAM NORTH	
					TEYNAMPET	NANDANAM
						R.A.PURAM
						TEYNAMPET
						T.NAGAR SOUTH (UP.sec)
						USMAN RD.
			WEST MAMBALAM - I			
			WEST MAMBALAM - II			
			PERAMBUR	RAJAJI NAGAR		
				AGARAM		
				PERUMBUR WEST		
				PERAMBUR EAST		
				POOMBUKAR NAGAR		
			SEMBIUM	KOLATHUR		
				KODUNGAIYUR		
GANDHI NAGAR						
LAKSHMIPURAM						
SEMBIUM						
VILLIVAKKAM	ICF					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

						AYANAVARAM
						SIDCO
						TAGORE NAGAR
						VILLIVAKKAM
						KALADIPET SS
					THIRUVETRIYUR	KALADIPET
						THIRUVETRIYUR (DEP)
						ENNORE
						THIRUVETRIYUR SS
					TONDIARPET Cons	KORUKUPET
						TONDIARPET
				TONDIARPET	TONDIARPET	TONDIARPET SS.
						N.WASHERMENPET
						MANALI
					MANALI	EARNAVOOR
						Manali New town
						NAPALAYAM
						MINJUR/TOWN
					MINJUR	MINJUR/WEST
						Melur
						MINJUR/EAST
						KANNADASA NAGAR
				VYASARPADI	MADHAVARAM	MADAVARAM - I
						MADAVARAM - II



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

				PONNERI		MATHUR
						VADUPERUMBAKKAM
						ROYAPURAM
					ROYAPURAM	
					R.K.NAGAR	
					KALMANDAPAM	
					VYASARPADI	VOC NAGAR
						VYASARPADI
						M.K.B.NAGAR
						VALLALAR NAGAR
					Ponneri East	STANLY
						Ponneri SS
						Ponneri Town
					Panjetty	Andarkuppam
						Irulipattu
						Poovalambedu
						Arani
						Panjetty
					Gummidipoondi	Kavarapettai
						Elavoor
						Sipcot I,II
					/Con/Ponneri	Madarpakkam
						Devambedu
						Town/GPD
Ponneri West	Rural/GPD					
	Ponneri East					
	Ponneari South					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Ponneri West
					Pulicat
					Medur
				KKNagar	KKNagar - West
					KKNagar - East
					MGR Nagar
				AshokNagar	KKNagar - South
					Ashok Nagar East
					Ashok Nagar West
				Kodambakkam	Ashok Nagar Central
					Kodambakkam
					Vadapalani
				KKNagar	Rangarajapuram
					Choolaimedu
					Valasaravakkam
		Chennai/South	Chennai/South	Valasaravakkam	Virugambakkam
					ChinmayaNagar
					Alwarthiru Nagar
				Saligramam	Saligramam
					Dasarathapuram
					Alagiri Nagar
				Adyar	Adyar
					Besant Nagar
					Valmiki Nagar
					Kottivakkam
				Indira Nagar	ShastriNagar
					Indira Nagar



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Thiruvanmiyur	
					Palavakkam	
					Enjambakkam	
					Neelankarai	
				Velachery	Velachery East	
					Velachery West	
					Velachery Central	
				Taramani	Taramani	
					Chinnamalai	
					Const/Thirvanmiyur	
			IT Corridor	Sholinganallur	Sholinganallur	
						Thoraipakkam
						Karapakkam
						Perungudi South
					I.E. Perungudi	
					Construction	V.S.I. Estate
						Perungudi North
						Tidel Park
						MCN Nagar
					Siruseri	Kandanchavadi
				Siruseri		
			Guindy	Guindy	Chemmancheri	
						Guindy
						Ekkaduthangal
					Rajbhavan	
					Nanganallur	Nanganallur
				Madipakkam		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Moovarasampet
				Adambakkam	Adambakkam
					Puzhuthivakkam
					Vanuvampet
					T.G.Nagar
				Ramapuram	Ramapuram
					Mugalivakkam
					Nandambakkam
					St. Thomas Mount
				Meenambakkam	Meenambakkam
					Palavanthagal
			Porur	Porur	Porur - I
					Porur - II
					Gerugambakkam
					Karambakkam
				Kundrathur	Kundrathur - Town
					Kundrathur - Rural
					Kovoor
				Thirumudivakkam	Thirumudivakkam - I.E.
					Thirumudivakkam - Rural
					Somangalam
				Mangadu	Mangadu
					Kumananchavadi
			Iyyappanthagal		
			Poonamalle	Poonamalle South	
				Poonamalle North	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Parivakkam
					Nazarathpet
				Tambaram	Tambaram East
					Tambaram West
				Pallavaram	Perungalathur
					Mudichur
					Pallavaram East
				Kadapperi	Pallavaram West
					Pallavaram Central
					Kadapperi
				Tambaram	Radha Nagar
					New Colony
					Medavakkam
					Keelkatalai
					Pallikaranai
				Medavakkam	Hasthinapuram
					Nehru Nagar
					Selaiyur
					Madampakkam
				Selaiyur	Chitlapakkam
					Pammal
					Phozuchalur
				Pammal	Anagaputhur
					Chrompet
					Pammal
					Construction
			Chennai West	Anna Nagar	Sembakkam
				AnnaNagar	AnnaNagar North
					AnnaNagar Central



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Shenoy Nagar
					Shanthi Colony
				Chetpet	Chetpet
					Aminjikarai
					Mahalingapuram
				Arumbakkam	Arumbakkam
					MMDA Colony
					Koyambedu
					Koyambedu Market
					Nerkundram
				Maduravoyal	Maduravoyal South
					Maduravoyal North
					Vanagaram
					Alappakam
					Porur Garden
				Construction	AnnaNagar West
					Thirumangalam
			Ambattur	Ambattur	Ambattur South
					Thiruvenkatanagar
					Ponnamman Nagar
					Ayanambakkam
				I.E. Ambattur	I.E. South
					I.E. North
					I.E. Central
					Patravakkam
					Mangalapuram
				Korattur	Korattur



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

						Padi	
						Mannurpet	
						JJ Nagar	JJ Nagar South
							JJ Nagar North
							JJ Nagar Central
							Krishna Nagar
						Construction	Nolambur
							JJ Nagar West
						Oragadam	Oragadam
							Banu Nagar
							Ambattur Central
							Ambattur North
						Thiruverkadu	Thiruverkadu
							Velappanchavadi
							Puliambedu
						Avadi	Avadi south
							Avadi North
							Thirumullaivoyal
						Pattabiram	Pattabiram
							Kamaraj Nagar
TNHB/Avadi							
Sekkadu							
Puzhal	Puzhal						
	Redhills - II						
	Arumanthai						
	Grandline						
Redhills	Redhills - I						



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Thirumullaivoyal	Sholavaram
						Sothuperumedu
						Padianallur
						Pondeswaram
						Alamathy
						SIDCO Thirumullaivoyal
77	Tirunelveli	Tirunelveli	Tirunelveli	Tirunelveli-Urban	Palayamkottai	VM Chattiram
						Shanthinagar
						Samadanapuram
						Vannarpattai
					Junction	Junction
						Melapalayam I
						Melapalayam II
						Reddiarpatti
						Maharajanagar
						Perumalpuram (AEE)
					Town	Pettai
						Palayamkottai
						Tatchanallur
						Town Section (AEE)
78	Sankarankovil			Sankarankovil	Sankarankovil	Sankarankovil Town I
						Sankarankovil Town II
79	Kadayanallur			Kadayanallur	Kadayanallur	Kadayanallur Town
						Kadayanallur SS



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Kadayanallur- Rural		
80	Puliyankudi			Puliyankudi	Puliyankudi Town		
					Puliyankudi SS		
81	Tenkasi		Tenkasi	Tenkasi	Tenkasi Town I		
					Tenkasi Town II		
					Tenkasi SS		
82	Ambasamuthiram			Ambasamuthiram	Ambasamuthiram Town		
83	Vikramasingapuram		Kallidaikurichi	Vikramasingapuram	Vikramasingapuram Town		
					Vikramasingapuram SS		
84	Tuticorin	Tuticorin	U/TUTICORIN	U/S/TUTICORIN	U/S/TUTICORIN		
					U/W/TUTICORIN		
					R/W/TUTICORIN		
				U/N/TUTICORIN	U/N/TUTICORIN		
					U/ E/ TUTICORIN		
					U/C/ TUTICORIN		
					U/KEELUR/TUTICORIN		
85	Muthaiyapuram					U/S/Tuticorin	Muthaiyapuram/N
							Muthaiyapuram/S
86	Tiruchendur				Tiruchendur	Tiruchendur	Tiruchendur
87	Kovilpatti		Kovilpatti	T/Kovilpatti	T/E/ KOVILPATTI		
					T/W/ KOVILPATTI		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					T/ N/ KOVILPATTI	
					T/S/ KOVILPATTI	
88	Virudhunagar	Virudhunagar	Virudhunagar	T/Virudhunagar	E/Virudhunagar	
						W/Virudhunagar
						S/Virudhunagar
89	Sattur		Sivakasi	T/Sattur		T/Sattur
90	Rajapalayam		Rajapalayam	Rajapalayam	T/Rajapalayam	T/W/RJPM
						T/N/RJPM
						T/E/RJPM
						T/S/RJPM
					SS/Rajapalayam	Averampatti
						Thotiyapatti
					Chatrapatti	
91	Srivilliputhur	Srivilliputhur	T/Srivilliputhur		Market Bazaar/SVPR	
					W/SVPR	
					E/SVPR	
92	Aruppukottai	Aruppukottai	Aruppukottai	T/Aruppukottai	T/E/Aruppukottai	
					T/W/Aruppukottai	
					T/N/Aruppukottai	
93	Sivakasi	Sivakasi	Sivakasi	T/Sivakasi	T/E/Sivakasi	
					T/W/Sivakasi	
					T/N/Sivakasi	
					SS/Sivakasi	
94	Kollencode		Pudhukadai	Pudhukadai	Kollencode	
95	NagerKoil	Kanniyakumari	Pudhukadai	Pudhukadai	TOWN II/NGL	
			Nagerkoil	N/Nagerkoil	TOWN IV/NGL	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

						TOWN VI/NGL		
						PARVATHYPURAM		
					S/Nagercoil	TOWN I/NGL		
						TOWN III/NGL		
						TOWN V/NGL		
96	Tirupattur	Vellore	Tirupathur	Tirupathur	N/Tirupattur	Town -I/Tirupattur		
								Town -II /Tirupattur
97	Vaniyambadi				Vaniyambadi	Vaniyambadi		Town/Vaniyambadi
								North/Vaniyambadi
								South/Vaniyambadi
								Valayampet
							SS / Vaniyambadi	Perumalpet
98	Ambur				Pallikonda		U/Ambur	Town/Ambur
								West/Ambur
							Vinnamanagalam	SS/Ambur
						Rural/South/Ambur		
99	Gudiyatham		Gudiyatham		U/Gudiyattam	Urban - I /Gudiyatham		
						Urban - II /Gudiyatham		
						East/Gudiyatham		
100	Pernambut				Pernambut	Town/Peranambut		
101	Dharmapuri		Dharmapuri		Town /Dharmapuri	Fort /Dharmapuri		
						East /Dharmapuri		
						West /Dharmapuri		
					Adhiyamankottai	Lakkimpatty		
102	Krishnagiri		Krishnagiri		Town /Krishnagiri	Krishnagiri /Oldpet		
						Krishnagiri /Town		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

103	Hosur		Hosur	C&I/Krishnagiri	Industrial Estate	
				Town /Hosur	Hosur /Central	
					Hosur /West	
					Hosur /South	
C&I/Hosur	Hosur /Rural					
104	Kanchipuram	Kanchipuram	N/Kanchipuram	Town/Kanchipuram	Andivadi	
					Hosur /North	
					Rural/Kanchipuram	Arasanatty
						Sankaramadam
				South/Tiruvallur	Orikkai	
					Pillaiyarpalayam	
					Sivakanchi	
				Rural/Tiruvallur	Vishnukanchi	
					R/N/Kanchipuram	
				105	Tiruvallur	Kanchipuram
Town/Tiruvallur						
North/Tiruvallur						
106	Thiruttani	Kanchipuram	Thiruttani	Town/Thiruttani	Poondi	
					Rural/North/Thiruttani	
				Rural/Thiruttani	Rural/Thiruttani	
					Cons/Thiruttani	Rural/Thiruttani
				107	Vellore	Vellore
Urban-2/vellore	Salavanpet					
	Sathuvachari/east					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Sathuvachari/west
					Sankaranpalayam
					Kagidhapattarai
				West/vellore	West/vellore
					Shenpakkam
					Thottapalayam
108	Arcot		Arcot	Town/ Arcot	East/ Arcot
109	MelVisharam			Rural/ Arcot	West/ Arcot
110	Arakkonam		Arakkonam	Town/ Arakkonam	Town/ MelVisharam
					East/ Arakkonam
					Town/ Arakkonam



H Appendix H - Review of Current IT Systems

Utility has reviewed its current IT infrastructure in order to provide complete picture of existing IT system in the Utility to bidders. Following sections provide detail of applications, hardware & network available in the Utility.

H.1 Existing solutions

TNEB has internally developed and implemented Information Technology (IT) systems for computerization of various business processes. These are:

Table 24: Details of existing Applications to be Upgraded or Integrated with new System

Application Name & functional description	Stand-alone /Integrated Application	Other applications integrated with?	Future Plans (Phase out or continue)	Application Type - Batch (BCH), Online (ON), PC, Client Server (CS), Web (WEB)	Hours of Application Availability to Business (Days X Hours)	Supplier name, release	Make/ Version	Number of Licenses	Platform	OS	Database
A	B	C	D	E	F	G	H	I	J	K	L
GIS Consumer Indexing and Asset Mapping	Standalone	NA	Continue	Client - Server	24*7	ESRI	ArcGIS 9.2 suit with ArcInfo 9.2 ArcSDE 9.2 ArcIMS 9.2	Arc Info 5 Licenses And 1 license each for Arc SDE and Arc IMS	Arc Objects	Windows	Oracle 10g



Application Name & functional description	Languages	Third Party Tools	Any run time licenses ex, Testing tools	Total FTEs	Location of Resources	Documentation Available (Y/N)	Number of Concurrent Users (High:100+, Med:10-100, Low:<10)	Comments
A	M	N	O	P	Q	R	S	T
GIS Consumer Indexing and Asset Mapping	Java .net VB	NA	NA	5	Chennai	Yes	Low	

H.2 Technical evaluation - Existing IT Solution

The summary of evaluation performed during IT system review is presented below in a pictorial form. The application and platform details should be mentioned and suitably rated (as per the details mentioned below the table). All the below mentioned applications and platforms need to be integrated with the new proposed system by the Supplier:

Table 25: Technical Evaluation of Existing IT Applications

Application	Platform	Functionality	Technology	Usability	Maintainability	Integration with other systems
GIS Consumer Indexing and Asset Mapping	Arc Objects and OS is Windows	x	x	√	x	√

TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

✓ meets expectation ✓✓ meets current and future expectations ✓✓✓ exceeds expectations
 x Below expectation x x Poor x x x Very poor / Functionality not available

H.3 Existing Hardware

Table 26: Details of existing Hardware to be Upgraded or Integrated with new system

Hardware (Server/ PC/ Storage Devices/ UPS/ Networking equipments (Switches, Routers)/Printers etc.)	Number/ Unit	Make	Model	Memory (RAM) (Capacity and Type)	Storage (HDD) (Capacity and Type)	Processor (Nos & type)	Type/ IOS Release	Number of Ports	Type of Ports	Year of Purchase	Sharing with other applications or for exclusive use
NIL											



I Appendix I - List of Manuals/Business Processes to be converted (data-entry) into electronic form

The following manuals/business processes need to be converted into electronic form

Table 27: List of Manuals/ Business Process to be converted into Electronic Form

Name of the application/ business process that requires data migration into the proposed applications	Type (Stand alone application/ Integrated application/ Manual Business Process)	If Integrated, what are the other applications integrated with this?	Database (Access, SQL etc.)	Data Format (Access Table, Paper forms, Excel Sheets etc.)	Quantity per period(e.g. number of bills generated per month etc.)	Volume of Data (1000 records, 5000 pages etc)	Data mirroring/ replication needed?	Comments
LT Billing	Standalone	NA	Oracle 10 g	Tables	Approx. 1 crore bills generated per month	As per actual	Yes	Approximately last 3 years data needs to be migrated
HT Billing	Standalone	NA	Oracle 10 g	Tables	8000 bills generated per month approx.	As per actual	Yes	Approximately last 3 years data needs to be migrated



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS	Standalone	NA	NA	NA	NA	Approx. 1 Lakh diagrams on paper(eg. Single line diagram)	NA	All these diagrams needs to be scanned and will be used only for the reference purpose.
Customer Care Center	Standalone	NA	Oracle and Sql	Tables	Approx. 8 lakh complaints registered till date in Chennai call center.	As per actual	Yes	Currently there are 6 active call centers across the state (in different cities) addressing power failure complaints only. Approximately maximum of last 5 years data of registered complaints needs to be migrated in case of call centers at Chennai,Vellure, Koimbatore, Tricy and Madurai.In case of call center at kanchipuram only last one year data needs to be migrated.



J Appendix J - Review of Current Business Processes

Please refer to the separate file Appendix J for details.



K Appendix K - Website

Table 28: Detail of existing Website

*Detailed information can be obtained by visiting the website of TNEB

Particulars	Facility Available/Not Available
Does Utility have its own website?	www.tneb.in
Log in	Available for online payment and complaint module
Registration	Available for online payment and complaint module
Forgot password/ change password	Available for online payment and complaint module
Complaint registration & status	Available
Contact us	Address and phone numbers for all the main offices
Privacy policy	Not Available
About us	Brief information about TNEB
Latest update and news	News related to TNEB and updates
Consumer Related (Illustrative)	
Application form download for new connection	Available
Application form download for disconnection	Available
Registration of complaint	Available
Right to information	Available
Online bill payment	Currently only for Chennai consumers
Online bill summary	Available for all the consumers
Power shutdown information	Shutdown details and for are posted
Consumer guidance and news	Available
Acts and enforcement policy	Available
Power plant/generation details	Available



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Tariff schedule and tariff calculator	Available
Supplier Related (Illustrative)	
Tender Information	Available
Tendering or Bid submission	Available
Circulars and orders	Available
Employees Related (Illustrative)	
Payroll System	Not available
Leave balance	Not available
Expense Claim	Not available
Gazette index	Available
Cost data sheets	Available
Directory	Available
Circulars	Available
Other Stakeholder (Illustrative)	
Projects	Research project information available
TNEB level performance details	Available
Hits	The website hits to date is mentioned on site
Pension information	Pension details, pension calculator, tips are provided
Training and development	Facility details and policies
Security Features	The site serves as a placeholder for various applications which have their own security mechanism



L Appendix L - List of Goods and Related Services

- The details provided in this appendix are to provide the bidder with broad level quantities of hardware, software and the user base. This appendix is comprised of:

Appendix L1 - List of goods and related services

Appendix L2 - Licensing Policy and Right's to Software

Appendix L3 - Estimated quantities

- Indicative Category of Goods/Services:

The category of goods specified in appendix L3- AMR based Data Logging System, Customer Care Related Equipments, Switches and Storage and Backup Device are indicative only. The bidder may restructure the same in terms of quantities as per the requirement of his system / solution being proposed so as to meet the requirements as specified in RFP and SRS document. The evaluation shall be done as per the quantities and items as proposed by him in Appendix - D.

- Minimum Category of Goods/Services:

The category of goods specified in appendix L3 - Workstation PC's, Printers & Others, Cabling System, IP Telephony, Machines, Server Racks and UPS & Battery System are minimum required by the utility. It is mandatory that the bidder follow these minimum quantities while preparing the response. If any bidder furnishes the BOQ (Appendix D) for less quantity than those specified in these categories, then the evaluation of such bidders will be made as per the minimum requirement specified in Appendix L. It is the responsibility of the bidders to define all the items required along with the quantities to meet the requirement as stipulated in RFP and SRS documents.

- For all the items mentioned in Appendix D the payment will be made on the actual quantity consumed during the project execution as per the site requirements or the quantities specified in Appendix - D whichever is minimum.
- The selected bidder after the award of contract need to finalize the actual BoQ to be deployed in consultation with utility, before initiating the purchase of such items. The payment will be made as per the quantity procured at site.
- The delivered system should comply with the performance level mentioned in the clause 9 of Section G1 of SRS Document. It's the SI's responsibility to procure, manage and make available the necessary licenses required to develop and test the proposed solution.



Appendix L1 - List of Goods and Related Services

Following is the indicative list of goods and related services to be delivered under this contract. The delivered system should comply with the performance level mentioned in the clause 9 of Section G1 of SRS Document.

Table 29: List of Goods and Related Services

Item No.	Name of Goods or Related Services	Description	Quantity
1	GIS Application Server Hardware	Hardware	As per the requirement of the system / solution being proposed by the SI, so as to meet the requirements as specified in RFP and SRS document. The evaluation shall be done as per the quantities and items as proposed by him in Appendix - D.
2	Application Server Hardware for Other	Hardware	
3	Database Server Hardware	Hardware	
4	Data Acquisition Server Hardware	Hardware	
5	Other Server Hardware (testing, development & QA, access control, anti-virus, LDAP, web, mail/ messaging etc.)	Hardware	
6	Work-stations (including PC, UPS, chair, table) & Printers	Hardware	(Refer Appendix L3)
7	GIS Application Licenses	Software	Refer Appendix L2
8	Other Application Licenses	Software	Refer Appendix L2
9	Meter data acquisition analysis software	Software	Refer Appendix L2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

10	System Software (OS, RDBMS, Antivirus etc.)	Software	As required
11	Collection Centre Machines (touch screen KIOSK, IDMS, cash/cheque collection KIOSK etc.)	Hardware	(Refer Appendix L3)
12	Other items (Modems, hand-held devices with portable printers etc.)	Hardware	(Refer Appendix L3)
13	DGPS Survey	Services, Software	All identified locations
14	WAN Implementation	Hardware, Software, Services	All identified offices
15	LAN Implementation	Hardware, Cabling	All identified offices
16	Data-migration, Integration	Services	All identifies systems
17	FMS Services	Services	All end users

*The specified quantity is only for business applications. For other applications like LDAP, anti-virus, mail/messaging etc. bidder should provide the details.

Appendix L2

1. Application and Database Licensing Policy

Bidders should provide TNEB with Enterprise Wide (for entire TNEB, or sister companies within the state of Tamil Nadu) Licenses for unlimited users and unlimited time for all applications listed below.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Softwares
Asset Management
Maintenance Management
Meter Data Acquisition
Energy Audit
Meter, Billing and Collection
New Connection & Disconnection Management System
Identity and Access Management system
Management Information System
Messaging Solutions
Document Management System
Customer Care Centre
GIS based integrated Network Analysis
GIS based Consumer Indexing and asset mapping
Databases



2. Right's to Software

The TNEB's and Supplier's rights and obligations with respect to Software's are as follows:

- i. The TNEB will have sole & exclusive right on the design/architecture/technical/functional specification of the software's and test case.
 - ii. The TNEB will have exclusive deployment rights i.e. it may use the software in any of its offices or provide licenses to its sister organization(s) and modify or/and develop it further.
 - iii. The vendor will not part the design/architecture/technical/functional specification used in the bespoke s/w development to any third party or shall not use the same for other organization(s) without written permission from the TNEB.
 - iv. The ITIA should provide the source code of the implemented solution pertaining to the customization done for various application(s) to utility's IT team.
3. **VPN/MPLS:** Supply and configuration of bandwidth for first 3 years at all locations would be included in ITIA scope of work. The payment of internet Bandwidth and MPLS-VPN bandwidth for primary and secondary link will be made by the SI to ISP and the same shall be reimbursed by the TNEB.



Appendix L3 -Estimated Bill of Quantity (BoQ)

The estimated Bill of Quantity is in separate Excel file named "Appendix_L3_Estimated_BOM.xls" Please referring this file.



Appendix M – Estimated Manpower Requirement

Following is the list of minimum number of resources required to be deployed by the bidder under various roles:

Table 30: Estimated Manpower Requirement

Roles	Dedicated Resources		Shared Resources	
	Number	Man months	Number	Man months
System Integrator	24	528	60	300
GIS Service Provider	24	216	12	60
Meter Data Acquisition Service Provider	24	216	12	60
Network Service Provider	10	220	25	375

*Includes only GIS Manager and not Field Supervisors / field team. Field team will be as per requirement so as to complete the work in a timely and qualitative manner.

Necessary resources for FMS shall be provided by the System Integrator in accordance with the clause 7.0 of Section G5 of SRS Document.

M Appendix N - Expected Implementation Schedule

The bidder is expected to complete the pilot implementation within 12 months from the date of award of contract by the utility. Pilot is the first project area (consisting of the data centre) that goes live in a utility. The bidder is expected to complete the enterprise-wide implementation for all the other identified project areas with-in 18 (eighteen) calendar months, from the date of award of contract by the utility.

Facilities Management Services post successful completion of acceptance tests shall be provided for a period of five years from the date of completion of acceptance test.

Bidder shall submit a detail Gantt chart as per along with the following implementation schedule. Bidders shall drill down these activities into sub/sub-sub activity in the chart. The chart shall also detail out time and resource effort required to execute each activity. The detailed bar charts for all the work activity shall however, be discussed and agreed to by the successful Bidder with the owner before start of the execution of work.

Table 31: Expected Implementation Schedule

	Activity/ Sub Activity	Start Date	Weekly Plan						End Date
			W1	W2	W3	W4	W5	...	
1	Mobilization at site with establishment of site office, requisite resource deployment etc.								
2	System Design (Pre-Implementation Plan, Testing and Development) and Approval from the owner								
3	Field Survey for Consumer Indexing & Asset mapping & GIS System Implementation								
4	Establishment of Data Center								
5	Implementation of AMR System								
6	Establishment of Customer care center								
7	Creation of IT Infrastructure at Other Utility offices viz. Division, Circle etc. (In a phased manner for associated completed sub division wise) -								
8	Integration of entire IT infrastructures created at data center, Sub division offices, Customer care centers, Electrical sub stations and other utility offices on a GIS platform with Acceptance / Performance test								
9	Facility Management Services (FMS)								

N Appendix O - Abbreviations

The abbreviation mentioned in the document has been expanded hereunder:

Abbreviation	Meaning
AMR	Automated Meter Reading
B/W	Black & White
BDS	Bid Data Sheet
BG	Bank Guarantee
CEO	Chief Executive Officer
CIO	Chief Information Officer
CST	Central Sales Tax
CTI	Computer Telephony Integration
CV	Curriculum Vitae
DNS	Domain Name Server
EMS	Enterprise Management System
ExW	Ex-Works
FMS	Facility Management Services
FoB	Freight on Board
GCC	General Conditions of Contract
GIS	Geographical Information System
GIS	Geographical Information System
GoI	Government of India
GPS	Geographic Positioning System
GSP	GIS Solution Provider
HQ	Head Quarter
HT	High Tension
ICB	International Competitive Bidding
INR	Indian Rupee
IP	Internet Protocol
IPR	Intellectual Property Rights
IST	Indian Standard Time
IT	Information Technology
ITB	Instructions to Bidders
ITC	IT Consultant
ITIA	IT Implementation Agency
LAN	Local Area Network
LDAP	Lightweight Directory Access Protocol
LoI	Letter of Intend
LP	Lowest Prize
LT	Low Tension
MBC	Metering Billing Collection
MD	Managing Director
MDASP	Meter Data Acquisition Solution Provider
MoP	Ministry of Power
MTR	Motor Transport Receipt
NIT	Notice Inviting Tender
NSP	Network Solution Provider
OEM	Original Equipment Manufacturer
OS	Operating System

TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

PC	Personal Computer
PFC	Power Finance Corporation
RAPDRP	Restructured Accelerated Power Development Reforms Programme
RFP	Request for Proposal
RFQ	Request for Qualification
SAN	Storage Area Network
SCC	Special Conditions of Contract
SI	System Integrator
SLA	Service Level Agreement
SRS	System Requirement Specifications
T/O	Turnover
TS	Technical Section
UPS	Uninterrupted Power Supply
VAT	Value Added Tax
VPN	Virtual Private Network
WAN	Wide Area Network



J Appendix J – Review of Current Business Processes

J.1 Number of Consumer & Asset Information

Following is the consumer related information of the Project Area and the Project Areas proposed in the scope of work for the previous financial year.

Table 1: Consumer Information for Utility

Utility (Last Financial Year)	
LT Consumers	6364411
HT Consumers	2509
Total	6366920

Following is the asset related information of the Utility and the Project Areas proposed in the scope of work as on July 2009

Table 2: Asset Information for Utility

Particulars		Utility
Total Number of 66/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	319
Total Number 11 kV Feeders	Numbers	1660
Total Number of Distribution Transformers	Numbers	29994



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

CHENNAI NORTH

1. Project Area Name : Chennai(CHNN)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	1865033	0	4512.09		4512.09	4279919.44	1024.29	1018.43
LT Commercial	408451	0	1765.03		1765.03	1257759.45	916.628	907.18
LT Industry	70795	0	1145.09		1145.09	818227.32	302.282	297.01
LT Agriculture	1	14409	0		0.00	58677.53	0	0
LT Others	18313	11012	390.09		390.09	65489.805	173.194	168.71
HT Railways	11	0	216.59		216.59	91865	73.518	73.34
HT Industrial	717	0	811.35		811.35	520925.5	536.95	530.03
HT Commercial	630	0	759.7		759.7	227907.3	573.152	571.3
HT Others	245	0	236.73		236.73	52057.305	179.436	147.75
Total	2364196	25421	9836.67	1316.6	11153.3	7372828.65	3779.45	3713.75

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	11
Total Number of Power Transformers	Numbers	27
Total Capacity of Power Transformers	MVA	3590
Total Number 66/33 kV Feeders	Numbers	203
Total Length of 66/33 kV Feeders (Overhead)	kM	663.46



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 66/33 kV Feeders (Under-ground)	kM	393.14
Total Number of 66/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	138
Total Number of Power Transformers	Numbers	362
Total Capacity of Power Transformers	MVA	6008.5
Total Number 11 kV Feeders	Numbers	966
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	1671.18
Total Length of 11 kV Feeders (Under-ground)	kM	3309.29
Total Length of LT Lines (Overhead)	kM	18138.4
Total Length of LT Lines (Under-ground)	kM	10082.2
Total Number of Distribution Transformers	Numbers	13778
Total Capacity of Distribution Transformers	MVA	4149.54
Total Number of Energy Import Points for the Project Area	Numbers	94
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	100
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	
Estimated Peak Demand	MW	2232.82
Estimated Average Demand	MW	1677.3
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					649213	1215820	0	1865033
LT Commercial	No.					89019	290239	0	379258
LT Industry	No.					60340	10455	0	70795
LT Agriculture	No.						1	11819	11820
LT Others	No.					7937	13440	11012	32389
HT Railways	No.					11	0	0	11
HT Industrial	No.					717	0	0	717
HT Commercial	No.					630	0	0	630
HT Others	No.					245	0	0	245
Assets									
Import Points above 33kV level	No.								
Export Points above 33kV level	No.								
33 kV Feeder at 33/11 kV SS	No.								
Import Points at 33kV feeders other than 33/11 kV SS	No.					226	6	3	
Export Points at 33kV feeders	No.								
11 kV feeders at 33/11 kV SS	No.					957	8	7	
Import Points at 11kV feeders	No.								
Export Points at 11kV feeders	No.								



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Distribution Transformers	No.					1118		12660	
Import Points at LT feeders	No.								
Export Points at LT feeders	No.								

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based					
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					

CHENNAI SOUTH

2. Project Area Name: Chengalpattu (CHNS)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	16846	0	23.69		23.69	33695	2.34	2.335
LT Commercial	4046	0	7.87		7.87	28552	2.82	2.818
LT Industry	142	0	1.32		1.32	1510	0.846	0.846
LT Agriculture	2	2	0.002		0.002	7.5	0	0
LT Others	296		1.67		1.67	588	0.27	0.27
HT Railways	1	0	0.05		0.05	72	0.318	0.318
HT Industrial	0	0	0		0	0	0	0
HT Commercial	2	0	0.56		0.56	146	0.304	0.304
HT Others	1	0	0.48		0.48	200	0.318	0.318
Total	21336	2	35.642	6.17	41.812	64770.5	7.216	7.209

Assets**	Project Area



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	36
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	7.2
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	8
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	37.3
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	144
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	77
Total Capacity of Distribution Transformers	MVA	17.35
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	44.64
Estimated Peak Demand	MW	9.27
Estimated Average Demand	MW	8.92
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	16846	0	16846	
LT Commercial	No.				42	4004	0	4046	
LT Industry	No.				18	124	0	142	
LT Agriculture	No.				0	0	2	2	
LT Others	No.				3	291	0	294	
HT Railways	No.				1	0	0	1	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				2	0	0	2	
HT Others	No.				1	0	0	1	
Assets									
Import Points above 33kV level	No.				0	0	0	0	
Export Points above 33kV level	No.					0	0	0	
33 kV Feeder at 33/11 kV SS	No.					0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at 33kV feeders other than 33/11 kV SS	No.						0	0	0
Export Points at 33kV feeders	No.						0	0	0
11 kV feeders at 33/11 kV SS	No.				0		0	3	3
Import Points at 11kV feeders	No.						0	3	3
Export Points at 11kV feeders	No.						0	2	2
Distribution Transformers	No.				0		0	77	77
Import Points at LT feeders	No.						0	0	0
Export Points at LT feeders	No.							154	154

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	40				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

3. Project Area Name : Maraimalainagar (CHNS)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	14781	0	29.5		29.5	71255	1.676	1.675
LT Commercial	2071	0	8.9		8.9	17863.2	1.999	1.9985
LT Industry	505	0	4.49		4.49	44802.25	1.829	1.829
LT Agriculture	0	350	0	1.140	1.14	972.32	0	0
LT Others	326		1.82		1.82	393.4	0.654	0.654
HT Railways	0	0	0		0	0	0	0
HT Industrial	64	0	112.45		112.5	76835	69.94	69.94
HT Commercial	3	0	6.804		6.804	2808	4.232	4.232
HT Others	3	0	1.776		1.776	1630	1.047	1.047
Total	17753	350	165.74	1.14	166.88	216559.17	81.377	81.3755



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Maraimala inagar
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 110/33 kV Feeders	Numbers	2
Total Length of 66/33 kV Feeders (Overhead)	kM	8.5
Total Length of 66/33 kV Feeders (Under-ground)	kM	2.5
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	6
Total Capacity of Power Transformers	MVA	97
Total Number 11 kV Feeders	Numbers	16
Number of Metered 11 kV Feeders	Numbers	16
Total Length of 11 kV Feeders (Overhead)	kM	99
Total Length of 11 kV Feeders (Under-ground)	kM	4
Total Length of LT Lines (Overhead)	kM	473
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	169
Total Capacity of Distribution Transformers	MVA	28.6
Total Number of Energy Import Points for the Project Area	Numbers	0
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	6
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	196.54
Estimated Peak Demand	MW	41.16
Estimated Average Demand	MW	34.87
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	14781	0	14781	
LT Commercial	No.				0	2071	0	2071	
LT Industry	No.				328	187	0	515	
LT Agriculture	No.				0	0	350	350	
LT Others	No.				0	326	0	326	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				64	0	0	64	
HT Commercial	No.				3	0	0	3	
HT Others	No.				3	0	0	3	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets									
Import Points above 33kV level	No.								0
Export Points above 33kV level	No.								0
33 kV Feeder at 33/11 kV SS	No.								0
Import Points at 33kV feeders other than 33/11 kV SS	No.								0
Export Points at 33kV feeders	No.						1		1
11 kV feeders at 33/11 kV SS	No.				16				16
Import Points at 11kV feeders	No.								0
Export Points at 11kV feeders	No.								0
Distribution Transformers	No.						169		169
Import Points at LT feeders	No.								0
Export Points at LT feeders	No.						338		338

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	60				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

COIMBATORE

4. Project Area Name: : Coimbatore UA (CBE)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	208828	0	334.75		334.75	322801.09	65.36	65.36
LT Commercial	53461	0	213.85		213.85	141691.10	94.36	94.36
LT Industry	13814	0	301.62		301.62	134584.56	86.25	86.25
LT Agriculture	18	582	0			2524.341	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Others	4844	0	61.37	61.37	20749.236	25.85	25.85
HT Railways	0	0	0	0	0	0	0
HT Industrial	86	0	145.12	145.12	89461.50	79.40	79.40
HT Commercial	33	0	30.04	30.04	34328.25	32.15	32.15
HT Others	14	0	24.00	24.00	14563.50	15.35	15.35
Total	281098	582	1110.75	3.50	1114.25	760703.577	398.72

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	3
Total Number of Power Transformers	Numbers	5
Total Capacity of Power Transformers	MVA	500
Total Number 66/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	4.2
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV, 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	8
Total Number of Power Transformers	Numbers	21
Total Capacity of Power Transformers	MVA	314
Total Number 22 kV & 11 kV Feeders	Numbers	56
Number of Metered 22 kV & 11 kV Feeders	Numbers	56
Total Length of 22 kV & 11 kV Feeders (Overhead)	kM	277.33
Total Length of 11 kV Feeders (Under-ground)	kM	8.624
Total Length of LT Lines (Overhead)	kM	2176.614
Total Length of LT Lines (Under-ground)	kM	1.271



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Distribution Transformers	Numbers	1864
Total Capacity of Distribution Transformers	MVA	431.146
Total Number of Energy Import Points for the Project Area	Numbers	15
Number of Metered Energy Import Points for the Project Area	Numbers	3
Total Number of Energy Export Points for the Project Area	Numbers	0
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	1110.75
Estimated Peak Demand	MW	130.41
Estimated Average Demand	MW	122.73
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	208828	0	208828	
LT Commercial	No.				0	53461	0	53461	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Industry	No.				889	12925	0	13814
LT Agriculture	No.				0	18	582	600
LT Others	No.				0	4844	0	4844
HT Railways	No.				0	0	0	0
HT Industrial	No.				86	0	0	86
HT Commercial	No.				33	0	0	33
HT Others	No.				14	0	0	14
Assets								
Import Points above 33kV level	No.				0		0	0
Export Points above 33kV level	No.				0		0	0
33 kV Feeder at 33/11 kV SS	No.				1		0	1
Import Points at 33kV feeders other than 33/11 kV SS	No.				0		0	0
Export Points at 33kV feeders	No.				1		0	1
11 kV feeders at 33/11 kV SS	No.				56		0	56
Import Points at 11kV feeders	No.				15		0	15
Export Points at 11kV feeders	No.				0		5	5
Distribution Transformers	No.				1864		53	1917
Import Points at LT feeders	No.				0		1509	1509
Export Points at LT feeders	No.				0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT								
GIS Based								
Non-GIS Based	100							
LT								
GIS Based								
Non-GIS Based	10							
Asset Mapping								
66 kV System								
GIS Based								
Non-GIS Based								
33 kV System								
GIS Based								
Non-GIS Based								
11 kV System								
GIS Based								
Non-GIS Based								
LT System								
GIS Based								
Non-GIS Based								

5. Project area Name : Coonoor (CBE)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	11969	0	17.9		17.9	2400	0.52	0.52



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Commercial	2820	0	5.1	5.1	1102	0.21	0.21
LT Industry	95	0	0.4	0.4	1300	0.0223	0.0223
LT Agriculture	14	0	0	0.04	30		
LT Others	422	0	1.2	1.2	600	0.122	0.122
HT Railways	1	0	0.3	0.3	90	0.004	0.004
HT Industrial	4	0	1.05	1.05	351	0.004	0.004
HT Commercial	2	0	0.5	0.5	180	0.0304	0.0304
HT Others	0	0	0.05	0.05	247.5	0.022	0.022
Total	15327	0	26.5	26.54	6300.5	0.92	0.92

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 110/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	3
Total Length of 11 kV Feeders (Overhead)	kM	41
Total Length of 11 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of LT Lines (Overhead)	kM	82
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	67
Total Capacity of Distribution Transformers	MVA	8.715
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	26.6
Estimated Peak Demand	MW	5.1
Estimated Average Demand	MW	4.7
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.						11969	0	11969
LT Commercial	No.						2820	0	2820
LT Industry	No.						95	0	95
LT Agriculture	No.						14		14
LT Others	No.						422		422
HT Railways	No.					1	0	0	1
HT Industrial	No.					4	0	0	4
HT Commercial	No.					2	0	0	2
HT Others	No.						0	0	0
Assets									
Import Points above 33kV level	No.				0		0	0	0
Export Points above 33kV level	No.							0	0
33 kV Feeder at 33/11 kV SS	No.							0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.							0	0
Export Points at 33kV feeders	No.							0	0
11 kV feeders at 33/11 kV SS	No.					3		0	3
Import Points at 11kV feeders	No.					3		0	3
Export Points at 11kV feeders	No.					3			3
Distribution Transformers	No.					67			67
Import Points at LT feeders	No.								0
Export Points at LT feeders	No.							0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

6. Project Area Name : Dharapuram (CBE)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	13520	0	22.58		22.58	11720.9	2.92	2.89
LT Commercial	3764	0	7.26		7.26	5910	4.43	4.34
LT Industry	344	0	2.31		2.31	5687	1.12	1.09
LT Agriculture	0	88	0	0.17	0.17	299.91		
LT Others	386		4.8		4.8	910.4	1.59	1.42
HT Railways								
HT Industrial								
HT Commercial								
HT Others								
Total	18014	88	36.95	5.28	42.23	24528.21	10.06	9.74

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 66/33 kV Feeders	Numbers	2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 66/33 kV Feeders (Overhead)	kM	115
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	66
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	13
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	53
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	68
Total Capacity of Distribution Transformers	MVA	12.4
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	42.23
Estimated Peak Demand	MW	12.31
Estimated Average Demand	MW	11.079



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90
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Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				67	13453	0	13520	
LT Commercial	No.				25	3739	0	3764	
LT Industry	No.				60	284	0	344	
LT Agriculture	No.					78	10	88	
LT Others	No.				12	374	0	386	
HT Railways	No.						0	0	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				0	0	0	0	
HT Others	No.				0	0	0	0	
Assets									
Import Points above 33kV level	No.				0	2		2	
Export Points above 33kV level	No.							0	
33 kV Feeder at 33/11 kV SS	No.					0		0	
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	
Export Points at 33kV feeders	No.					0		0	
11 kV feeders at 33/11 kV SS	No.					2		2	
Import Points at 11kV feeders	No.					0		0	
Export Points at 11kV feeders	No.						0		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Distribution Transformers	No.					68		0	68
Import Points at LT feeders	No.							0	0
Export Points at LT feeders	No.								

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based				
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7. Project Area Name : Gudallur (CBE)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	8650	nil	4.94	4.94		7500	0.75	0.67
LT Commercial	1538	0	1.59	1.59		6152	0.84	0.75
LT Industry	73	0	2.868	2.868		1597	1.33	1.33
LT Agriculture	66	0	0.001	0.001		246.18	0	0
LT Others	194	61	0.416	0.416		580	0.16	0.12
HT Railways	0	0	0	0		0	0	0
HT Industrial	4	0	2.96	2.96		1125	1.97	1.97
HT Commercial	0	0	0	0		0	0	0
HT Others	0	0	0	0		0	0	0
Total	10525	61	12.775			17200.18	5.05	0.5447

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	7.5
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	25.12
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	120
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	52
Total Capacity of Distribution Transformers	MVA	6.964
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	1
Total Number of Energy Export Points for the Project Area	Numbers	8
Number of Metered Energy Export Points for the Project Area	Numbers	8
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	12.77
Estimated Peak Demand	MW	7.656



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Estimated Average Demand	MW	7.006
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					8650	0	8650	
LT Commercial	No.					1538	0	1538	
LT Industry	No.				7	96	0	103	
LT Agriculture	No.					5	61	66	
LT Others	No.					194		194	
HT Railways	No.					0	0	0	
HT Industrial	No.				4	0	0	4	
HT Commercial	No.					0	0	0	
HT Others	No.					0	0	0	
						11	61	10555	
Assets									
Import Points above 33kV level	No.				0	0	0	0	
Export Points above 33kV level	No.						0	0	
33 kV Feeder at 33/11 kV SS	No.						0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at 33kV feeders other than 33/11 kV SS	No.						0	0
Export Points at 33kV feeders	No.						0	0
11 kV feeders at 33/11 kV SS	No.				2		0	2
Import Points at 11kV feeders	No.				1		0	1
Export Points at 11kV feeders	No.				8			8
Distribution Transformers	No.				52			52
Import Points at LT feeders	No.							0
Export Points at LT feeders	No.						0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based					
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

8. Project Area Name : Mettupalayam (CBE)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	15118	0	14.74		14.7	23576	3.97	3.97
LT Commercial	4265	0	4.33		4.33	8127	2.43	2.43
LT Industry	275	0	1.32		1.32	1899	0.67	0.67
LT Agriculture	0	124	0		0	649	0	0
LT Others	254	0	1.17		1.17	934	0.41	0.16
HT Railways	1	0	0.092		0.09	56.7	0.07	0.68
HT Industrial	1	0	1.32		1.32	630	0.67	0.668
HT Commercial	1	0	0.47		0.47	90	0.26	0.26
HT Others	2	0	7.13		7.13	1108	2.76	2.26
Total	19917	124	30.572	1.31	31.882	37069.7	11.236	11.098



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	32
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	51.65
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	157.18
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	64
Total Capacity of Distribution Transformers	MVA	12.95
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	31.882
Estimated Peak Demand	MW	13.71
Estimated Average Demand	MW	11.54
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	15118		15118	
LT Commercial	No.				14	4251		4265	
LT Industry	No.				31	244		275	
LT Agriculture	No.				0	4	120	124	
LT Others	No.				1	253	0	254	
HT Railways	No.				1	0		1	
HT Industrial	No.				1	0		1	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Commercial	No.					1	0		1
HT Others	No.					2	0		2
Assets									
Import Points above 33kV level	No.				0	0			0
Export Points above 33kV level	No.					0			0
33 kV Feeder at 33/11 kV SS	No.					0			0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0			0
Export Points at 33kV feeders	No.					0			0
11 kV feeders at 33/11 kV SS	No.					0			0
Import Points at 11kV feeders	No.					0		3	3
Export Points at 11kV feeders	No.					0		5	5
Distribution Transformers	No.					54		10	64
Import Points at LT feeders	No.							0	0
Export Points at LT feeders	No.							0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

9. Project Area Name : Palladam(CBE)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	10095	0	18.36		18.36	14360	2.15	2.04
LT Commercial	2154	0	14.91		14.91	7698	1.98	1.93
LT Industry	524	0	19.85		19.85	8929	5.89	5.69



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Agriculture	11	335	0	0	730	0	0	
LT Others	245	0	1	1	349	0.87	0.87	
HT Railways	0	0	0	0	0	0	0	
HT Industrial	15	0	25.64	25.64	6160	121.98	121.98	
HT Commercial	0	0	0	0	0	0	0	
HT Others	0	0	0	0	0	0	0	
Total	13044	335	79.76	13.72	93.48	38226	132.87	132.51

Assets		Palladam
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	mVA	200
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 66/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	mVA	32
Total Number 11 kV Feeders	Numbers	5
Number of Metered 11 kV Feeders	Numbers	5
Total Length of 11 kV Feeders (Overhead)	kM	55
Total Length of 11 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets		Palladam
Total Length of LT Lines (Overhead)	kM	178.2
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	177
Total Capacity of Distribution Transformers	mVA	25.921
Total Number of Energy Import Points for the Project Area	Numbers	6
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	93.45
Estimated Peak Demand	MW	27.3
Estimated Average Demand	MW	17.4
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					0	10095	0	10095
LT Commercial	No.					28	2126	0	2154
LT Industry	No.					63	461	0	524
LT Agriculture	No.					0	0	346	346
LT Others	No.					0	245	0	245
HT Railways	No.					0	0	0	0
HT Industrial	No.					15	0	0	15
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.					0		0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					0		6	6
Export Points at 11kV feeders	No.					0		3	3
Distribution Transformers	No.					166		11	177
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

10. Project Area Name : Pollachi (CBE)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	13644	0	19.77		19.77	16221.2	2.76	2.75
LT Commercial	5723	0	13.23		13.23	7667.1	6.64	6.62
LT Industry	362	0	0.88		0.88	1190.2	1.32	1.32
LT Agriculture	109	0	0	0.19	0.19	409.9	0	0
LT Others	256	0	0.44		0.44	864.55	0.99	0.99
HT Railways	0	0	0		0	0	0	0
HT Industrial	2	0	0.74		0.74	203	0.5	0.5
HT Commercial	1	0	0.32		0.32	135	0.24	0.24
HT Others	1	0	0.4		0.4	144	0.24	0.24
Total	20098	0	35.78	0.19	35.97	26835	12.69	12.66

Assets**		Pollachi
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 66/33 kV Feeders	Numbers	2
Total Length of 66/33 kV Feeders (Overhead)	kM	115
Total Length of 66/33 kV Feeders (Under-ground)	kM	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	66
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	25.224
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	90.814
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	101
Total Capacity of Distribution Transformers	MVA	22.188
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	1
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	1
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	41.11
Estimated Peak Demand	MW	10.91
Estimated Average Demand	MW	9.819
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					935	12709	0	13644
LT Commercial	No.					1216	4507	0	5723
LT Industry	No.					180	182	0	362
LT Agriculture	No.					0	109	0	109
LT Others	No.					70	186	0	256
HT Railways	No.					0	0	0	0
HT Industrial	No.					2	0	0	2
HT Commercial	No.					1	0	0	1
HT Others	No.					1	0	0	1
Assets									
Import Points above 33kV level	No.				0	1			1
Export Points above 33kV level	No.								0
33 kV Feeder at 33/11 kV SS	No.					1			1
Import Points at 33kV feeders other than 33/11 kV SS	No.								0
Export Points at 33kV feeders	No.								0
11 kV feeders at 33/11 kV SS	No.					13			13
Import Points at 11kV feeders	No.					2			2
Export Points at 11kV feeders	No.					101			101
Distribution Transformers	No.								0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at LT feeders	No.								0
Export Points at LT feeders	No.								0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based					
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11. Project Area Name: Tirupur (CBE)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	81411	0	48.47		48.47	52917.15	14.5	14.5
LT Commercial	25932	0	105.7		105.7	36493.38	15.89	15.89
LT Industry	29294	0	297.87		297.87	10773.73	4.36	4.36
LT Agriculture	15	420	0		0	6633.21	0	0
LT Others	2100	0	1.83		1.83	1.821	10.66	10.66
HT Railways	1	0	2.06		2.06	56.7	0.015	0.015
HT Industrial	29	0	59.77		59.77	21675	24.425	24.425
HT Commercial	4	0	8.24		8.24	990	0.06	0.06
HT Others	0	0	0		0	0	0	0
Total	138786	420	523.94	106.06	630	129540.991	69.91	69.91

Assets**	Project Area	
Total Number of EHV Sub-stations feeding the Project Area	Numbers	3
Total Number of Power Transformers	Numbers	8



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Capacity of Power Transformers	MVA	800
Total Number 66/33 kV Feeders	Numbers	3
Total Length of 66/33 kV Feeders (Overhead)	kM	87.29
Total Length of 66/33 kV Feeders (Under-ground)	kM	2.79
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	8
Total Number of Power Transformers	Numbers	16
Total Capacity of Power Transformers	MVA	256
Total Number 11 kV Feeders	Numbers	32
Number of Metered 11 kV Feeders	Numbers	32
Total Length of 11 kV Feeders (Overhead)	kM	91.878
Total Length of 11 kV Feeders (Under-ground)	kM	24.45
Total Length of LT Lines (Overhead)	kM	967.25
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	901
Total Capacity of Distribution Transformers	MVA	290.8
Total Number of Energy Import Points for the Project Area	Numbers	32
Number of Metered Energy Import Points for the Project Area	Numbers	32
Total Number of Energy Export Points for the Project Area	Numbers	12
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	685.146
Estimated Peak Demand	MW	135.41
Estimated Average Demand	MW	122.73
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				1025	80386	0	81411	
LT Commercial	No.				523	25409	0	25932	
LT Industry	No.				2050	27244	0	29294	
LT Agriculture	No.				0	15	420	435	
LT Others	No.				0	2100	0	2100	
HT Railways	No.				1	0	0	1	
HT Industrial	No.				29	0	0	29	
HT Commercial	No.				4	0	0	4	
HT Others	No.				0	0	0	0	
Assets									
Import Points above 33kV level	No.				0	3	0	3	
Export Points above 33kV level	No.					0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

33 kV Feeder at 33/11 kV SS	No.					3		0	3
Import Points at 33kV feeders other than 33/11 kV SS	No.					3		0	3
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					32		0	32
Import Points at 11kV feeders	No.					0		6	6
Export Points at 11kV feeders	No.					0		12	12
Distribution Transformers	No.					901		0	901
Import Points at LT feeders	No.					0		2162	2162
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

33 kV System				
GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

12. Project Area Name : Udthagamandalam(CBE)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	21981	0	30.412		30.412	17584	5.57	5.56
LT Commercial	5090	0	12.748		12.748	6108	12.09	12.08
LT Industry	147	0	2.44		2.44	1029	0.56	0.56
LT Agriculture	190	103	NIL		0	548	NIL	NIL
LT Others	524	0	1.97		1.97	3013	3.6	3.60
HT Railways	NIL	0	NIL		0	0	0	0.00
HT Industrial	NIL	0	NIL		0	0	0	0.00
HT Commercial	13	0	10.03		10.03	1920	6.82	6.82
HT Others	2	0	1.06		1.06	330	0.5	0.50
Total	27947	103	58.66	14.28	72.94	30532	29.14	29.12



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 110/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	35
Total Number 11 kV Feeders	Numbers	8
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	73.325
Total Length of 11 kV Feeders (Under-ground)	kM	5.02
Total Length of LT Lines (Overhead)	kM	625
Total Length of LT Lines (Under-ground)	kM	
Total Number of Distribution Transformers	Numbers	135
Total Capacity of Distribution Transformers	MVA	19.378
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	4
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	65.08
Estimated Peak Demand	MW	12.39
Estimated Average Demand	MW	11.48
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				385	21596	0	21981	
LT Commercial	No.				163	4927	0	5090	
LT Industry	No.				28	119	0	147	
LT Agriculture	No.				0	73	99	172	
LT Others	No.				18	591	0	609	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				13	0	0	13	
HT Others	No.				2	0	0	2	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					0		2	2
Export Points at 11kV feeders	No.					0		3	3
Distribution Transformers	No.					135		0	135
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

13. Project Area Name : Udumalpet Town (CBE)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	18140	0	13.049	0	13.049	16196.18	3.84	3.85
LT Commercial	5123	0	4.297	0	4.297	6881.16	6.49	6.47
LT Industry	408	0	1.633	0	1.633	998.75	1.55	1.54
LT Agriculture	93	60	0	0.52	0.52	417.9	0	0
LT Others	280	0	1.315	0	1.315	550.7	0.513	0.421
HT Railways	0	0	0	0	0	0	0	0
HT Industrial	5	0	15.94	0	15.94	2789	8.556	8.556



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Commercial	0	0	0	0	0	0	0	0
HT Others	0	0	0	0	0	0	0	0
Total	24049	60	36.234	5.68	41.915	27833.69	20.949	20.837

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	100
Total Number 66/33 kV Feeders	Numbers	3
Total Length of 66/33 kV Feeders (Overhead)	kM	18.57
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	2 X 25 MVA
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	3
Total Length of 11 kV Feeders (Overhead)	kM	18.57
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	64.18
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	68
Total Capacity of Distribution Transformers	MVA	15.47
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	3



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	41.915
Estimated Peak Demand	MW	11.35
Estimated Average Demand	MW	10.215
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					17235	905	0	18140
LT Commercial	No.					4868	255	0	5123
LT Industry	No.					408	0	0	408
LT Agriculture	No.					61	32	60	153
LT Others	No.					185	95	0	280
HT Railways	No.					0	0	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Industrial	No.					5	0	0	5
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	3			3
Export Points above 33kV level	No.					3			3
33 kV Feeder at 33/11 kV SS	No.					3			3
Import Points at 33kV feeders other than 33/11 kV SS	No.					0			0
Export Points at 33kV feeders	No.								0
11 kV feeders at 33/11 kV SS	No.								0
Import Points at 11kV feeders	No.								0
Export Points at 11kV feeders	No.								0
Distribution Transformers	No.								0
Import Points at LT feeders	No.								0
Export Points at LT feeders	No.								0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

14. Project area Name: Valparai(CBE)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	21260	0	1.6	0	1.6	8265	1.02	1.01
LT Commercial	2017	0	0.35	0	0.35	4900	0.72	0.71
LT Industry	14	0	0.01	0	0.01	251	0.55	0.54



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Agriculture	0	0	0	0.00	0	0	0	0
LT Others	867	0	0.27	0	0.27	2047	1.04	1.03
HT Railways	0	0	0	0	0	0	0	0
HT Industrial	25	0	25.789	0	25.79	8768	21.49	21.49
HT Commercial	0	0	0	0	0	0	0	0
HT Others	0	0	0	0	0	0	0	0
Total	24183	0	28.019	4.48	32.5	24231	24.82	24.78

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 22/11 kV Feeders	Numbers	5
Number of Metered 11 kV Feeders	Numbers	5
Total Length of 11 kV Feeders (Overhead)	kM	92
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	450
Total Length of LT Lines (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Distribution Transformers	Numbers	145
Total Capacity of Distribution Transformers	MVA	11.96
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	32.50
Estimated Peak Demand	MW	10.46
Estimated Average Demand	MW	9.414
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					8659	109778	0	118437



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Commercial	No.					1540	29018	0	30558
LT Industry	No.					1019	1485	0	2504
LT Agriculture	No.					0	176	1711	1887
LT Others	No.					658	3532	938	5128
HT Railways	No.					1	0	0	1
HT Industrial	No.					13	0	0	13
HT Commercial	No.					27	0	0	27
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	3	0	0	3
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					3		0	3
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					29		0	29
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		5	5
Distribution Transformers	No.					680		53	733
Import Points at LT feeders	No.					0		1509	1509
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Consumer Indexing					
HT					
GIS Based	0	0	0	0	
Non-GIS Based	100	4	0	0	
LT	0	0	0	0	
GIS Based	0	0	0	0	
Non-GIS Based	100	24183	0	0	
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

ERODE

15. Project Area name : ATTUR(ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collecti on
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	14104	0	9.01	0.8	9.81	14604	1.29	1.29
LT Commercial	3437	0	2.82		2.82	5024	1.59	1.59
LT Industry	567	0	5.99	0.3	6.29	9439	3.47	3.47
LT Agriculture	0	2046	0		0	7086	0	0
LT Others	354	0	1.12	0.06	1.18	570	0.24	0.24
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0.00
HT Commercial	1	0	0.46		0.46	113	0.26	0.26
HT Others	0	0	0		0	0	0	0
Total	18463	2046	19.4	1.16	20.56	36836	6.85	6.85

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	50
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	50
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 11 kV Feeders (Overhead)	kM	38.85
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	98.64
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	120
Total Capacity of Distribution Transformers	MVA	20.561
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	20.56
Estimated Peak Demand	MW	12.6
Estimated Average Demand	MW	9.2
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					1682	12422	0	14104
LT Commercial	No.					861	2576	0	3437
LT Industry	No.					196	371		567
LT Agriculture	No.					0	0	2046	2046
LT Others	No.					144	210		354
HT Railways	No.					0	0		0
HT Industrial	No.					0	0		0
HT Commercial	No.					1	0		1
HT Others	No.					0	0		0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					2		0	2
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					120		0	120
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

16. Project Area Name : Bhavani(ERD)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9806	0	7.98		7.98	10877	1.22	1.22
LT Commercial	2209	0	2.15		2.15	3147	1.13	1.13
LT Industry	387	0	0.5		0.5	909	1.12	1.12
LT Agriculture	8	31	0	0.85	0.85	45	0	0
LT Others	47	0	0.89	0	0.89	422	0.35	0.35
HT Railways	0	0	0	0	0	0	0	0
HT Industrial	0	0	0	0	0	0	0	0.00
HT Commercial	1	1	0	0	0	77	2.5	2.5
HT Others	0	0	0		0	0	0	0
Total	12458	32	11.52	1.00	12.52	15477	6.32	6.32

Assets		Bhavani
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	mVA	0
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 66/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets		Bhavani
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	mVA	35
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	3.33
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	53.55
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	30
Total Capacity of Distribution Transformers	mVA	6.176
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	12.5
Estimated Peak Demand	MW	1.35
Estimated Average Demand	MW	0.62
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	9606	0	9606	
LT Commercial	No.				32	2177	0	2209	
LT Industry	No.				76	291	0	367	
LT Agriculture	No.				0	6	25	31	
LT Others	No.				0	47	0	47	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				1	0	0	1	
HT Others	No.				0	0	0	0	
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0	0	0	0
33 kV Feeder at 33/11 kV SS	No.					0	0	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0	0	0	0
Export Points at 33kV feeders	No.					0	0	0	0
11 kV feeders at 33/11 kV SS	No.					0	0	0	0
Import Points at 11kV feeders	No.					0	2	2	2
Export Points at 11kV feeders	No.					0	2	2	2
Distribution Transformers	No.					30	0	30	30
Import Points at LT feeders	No.					0	75	75	75



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at LT feeders	No.					0		0	0
-----------------------------	-----	--	--	--	--	---	--	---	---

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

17. Project Area Name : Edappady(ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9273	0	8.485		8.485	10500	1.013	1.013
LT Commercial	1536	0	1.89		1.89	2500	0.912	0.912
LT Industry	2090	0	14.5		14.5	16000	1.517	1.517
LT Agriculture	0	188	0	3.59	3.59	750	0	0
LT Others	231	0	0.74	0	0.74	300	0.182	0.182
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0.00
HT Commercial	0	0	0	0	0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	13130	188	25.615	3.59	29.205	30050	3.624	3.624

Assets**		Edappady
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	400



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	50
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	3
Total Length of 11 kV Feeders (Overhead)	kM	50.943
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	261.42
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	98
Total Capacity of Distribution Transformers	MVA	19.929
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	27



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Estimated Peak Demand	MW	9.06
Estimated Average Demand	MW	7.5
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					650	8623	0	9273
LT Commercial	No.					100	1436	0	1536
LT Industry	No.					200	1890	0	2090
LT Agriculture	No.					0	0	188	188
LT Others	No.					10	221	0	231
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					3		0	3
Export Points at 11kV feeders	No.					0		5	5
Distribution Transformers	No.					78		20	98
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0	0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

18. Project Area Name : Erode (ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	93718	0	57.12	5	62.12	131718	7.56	7.56
LT Commercial	28421	0	95.46	4.17	99.63	61123	37.31	37.31
LT Industry	4004	0	120.25	10	130.25	54967	48.11	48.11
LT Agriculture	476	429	0	4.70	4.7	1752	0	0
LT Others	1556	0	0.85	0	0.85	7125	2.55	2.55
HT Railways	1	0	3.2	0.9	4.1	765	0.18	0.18
HT Industrial	9	0	7.3	3.4	10.7	2360	3.012	3.01
HT Commercial	2	0	1.1	0	1.1	450	0.421	0.421
HT Others	1	0	0.14	0	0.14	350	0.0812	0.0812
Total	128188	429	285.42	28.17	313.59	260610	99.2242	99.2242

Assets**	Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers 1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	64
Total Number 110/33 kV Feeders	Numbers	8
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	64
Total Number 11 kV Feeders	Numbers	9
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	130.22
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	630.39
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	584
Total Capacity of Distribution Transformers	MVA	136.404
Total Number of Energy Import Points for the Project Area	Numbers	8
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	9
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	321.63
Estimated Peak Demand	MW	60.39
Estimated Average Demand	MW	57.6
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					4012	89706	0	93718
LT Commercial	No.					2560	25861	0	28421
LT Industry	No.					3800	204	0	4004
LT Agriculture	No.					0	47	429	476
LT Others	No.					436	1120	0	1556
HT Railways	No.					1	0	0	1
HT Industrial	No.					9	0	0	9
HT Commercial	No.					2	0	0	2
HT Others	No.					1	0	0	1
Assets									
Import Points above 33kV level	No.				0	8	0	0	8
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		9	9
Distribution Transformers	No.					326		258	584
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

19. Project Area Name : Gobichettypalayam (ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	12047	0	24.48		24.48	14568.28	3.49	3.49
LT Commercial	4728	0	9.61		9.61	13700.61	5.8	5.8
LT Industry	294	0	1.45		1.45	3066.03	5.99	5.99
LT Agriculture	28	100	0		0	509.99	0	0
LT Others	267	31	2.2		2.2	752.77	4.61	4.61
HT Railways	0	0	0		0	0	0	0
HT Industrial	2	0	4.68		4.68	832.5	1.87	1.87
HT Commercial	0	0	0		0	0	0	0
HT Others	1	0	0.39		0.39	72	0.15	0.15
Total	17367	131	42.81	5.04	47.85	33502.18	21.91	21.91



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	300
Total Number 110/33 kV Feeders	Numbers	3
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	32
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	3
Total Length of 11 kV Feeders (Overhead)	kM	23.19
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	85.103
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	65
Total Capacity of Distribution Transformers	MVA	12.177
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	49.05
Estimated Peak Demand	MW	5.6
Estimated Average Demand	MW	5.2
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				2050	9997	0	12047	
LT Commercial	No.				1440	3288	0	4728	
LT Industry	No.				274	20	0	294	
LT Agriculture	No.				0	28	100	128	
LT Others	No.				64	203	31	298	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				2	0	0	2	
HT Commercial	No.				0	0	0	0	
HT Others	No.				1	0	0	1	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					65		0	65
Import Points at LT feeders	No.					0		193	193
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

20. Project Area Name: Mallasamudram(ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	3233	0	6.2	0.8	7	6830.52	0.08	0.08
LT Commercial	553	0	1.2		1.2	276.5	0.04	0.04
LT Industry	1141	0	7.6	1.1	8.7	4169.22	0.24	0.24
LT Agriculture	268	245	3.6	0.38	3.98	857.9	0	0
LT Others	184	0	1.4		1.4	182.3	0.04	0.04
HT Railways	0	0	0		0	0	0	0
HT Industrial	1	0	0.2		0.2	503.55	0.13	0.13
HT Commercial	0	0	0		0	0	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Others	0	0	0		0	0		0
Total	5380	245	20.2	2.28	22.48	12819.99	0.53	0.53

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	240
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	32
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	11.87
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	62.3
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	48
Total Capacity of Distribution Transformers	MVA	7.716



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	4
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	22.49
Estimated Peak Demand	MW	6.82
Estimated Average Demand	MW	5.38
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				85	3148			3233
LT Commercial	No.				12	541			553
LT Industry	No.				32	1109			1141



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Agriculture	No.					0	23	245	268
LT Others	No.					22	162		184
HT Railways	No.					0	0		0
HT Industrial	No.					1	0		1
HT Commercial	No.					0	0		0
HT Others	No.					0	0		0
Assets									
Import Points above 33kV level	No.				0	0			0
Export Points above 33kV level	No.					0			0
33 kV Feeder at 33/11 kV SS	No.					0			0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0			0
Export Points at 33kV feeders	No.					0			0
11 kV feeders at 33/11 kV SS	No.					0			0
Import Points at 11kV feeders	No.					0			0
Export Points at 11kV feeders	No.					4	0	0	4
Distribution Transformers	No.					48	0	0	48
Import Points at LT feeders	No.					0			0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

21. Project Area Name : Mettur(ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	14043	0	22.8		22.8	21820	5.27	5.27



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Commercial	1819	0	3.5		3.5	2900	2.6	2.6
LT Industry	425	0	5.5		5.5	18500	4.25	4.25
LT Agriculture	11	0	0	0.10	0.1	40	0	0
LT Others	337	0	2.7	2.14	4.84	1000	0.955	0.955
HT Railways	0	0	0		0	0	0	0
HT Industrial	5	0	3.8		3.8	1384	3	3.00
HT Commercial	0	0	0	0	0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	16640	0	38.3	2.24	40.54	45644	16.075	16.075

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	48
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	48
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	33
Total Length of 11 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of LT Lines (Overhead)	kM	203
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	100
Total Capacity of Distribution Transformers	MVA	18.213
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	40.54
Estimated Peak Demand	MW	12
Estimated Average Demand	MW	10
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others				
Consumers								
LT Domestic	No.					2043	12000	14043
LT Commercial	No.					519	1300	1819
LT Industry	No.					275	150	425
LT Agriculture	No.					0	11	11
LT Others	No.					272	65	337
HT Railways	No.					0	0	0
HT Industrial	No.					5	0	5
HT Commercial	No.					27	0	27
HT Others	No.					0	0	0
Assets								
Import Points above 33kV level	No.				0			0
Export Points above 33kV level	No.							0
33 kV Feeder at 33/11 kV SS	No.							0
Import Points at 33kV feeders other than 33/11 kV SS	No.							0
Export Points at 33kV feeders	No.							0
11 kV feeders at 33/11 kV SS	No.							0
Import Points at 11kV feeders	No.					4		4
Export Points at 11kV feeders	No.						2	2
Distribution Transformers	No.					100		100
Import Points at LT feeders	No.							0
Export Points at LT feeders	No.							0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

22. Project Area Name : Namakkal(ERD)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	16884		22.49	1.81	24.3	11692.44	3.265	3.265
LT Commercial	6855	0	5.2	0.3	5.5	12392.44	4.045	4.045
LT Industry	543	0	2.4	0.4	2.8	6581.96	1.614	1.614
LT Agriculture	118	0	0	0	0	440.14	0	0
LT Others	570	0	1.6	0.1	1.7	853.44	0.98	0.98
HT Railways	0	0	0	0	0	0	0	0
HT Industrial	0	0	0	0	0	0	0	0.00
HT Commercial	2	0	1.9	0.1	2	1.9	0.25	0.25
HT Others	0	0	0	0	0	0	0	0
Total	24972	0	33.59	2.71	36.3	31962.32	10.154	10.154

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	48
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	2
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	234
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	104
Total Capacity of Distribution Transformers	MVA	16.2
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	36.3
Estimated Peak Demand	MW	16.58
Estimated Average Demand	MW	14.5
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					455	16429		16884
LT Commercial	No.					325	6530		6855
LT Industry	No.					128	415		543
LT Agriculture	No.					0	0	118	118
LT Others	No.					65	505	0	570
HT Railways	No.					0	0		0
HT Industrial	No.					0	0		0
HT Commercial	No.					2	0		2
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0			0
Export Points above 33kV level	No.					0			0
33 kV Feeder at 33/11 kV SS	No.					0			0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0			0
Export Points at 33kV feeders	No.					0			0
11 kV feeders at 33/11 kV SS	No.					0			0
Import Points at 11kV feeders	No.					0			0
Export Points at 11kV feeders	No.					2			2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Distribution Transformers	No.					104			104
Import Points at LT feeders	No.					0			0
Export Points at LT feeders	No.					0	0		0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					

23. Project Area Name : Periyasemur(ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9616	0	10.234	10.234	20.468	2046	1.3976	1.3976
LT Commercial	1525	0	43.672	43.672	87.344	8735	4.5048	4.5048
LT Industry	943	0	18.716	18.716	37.432	3744	4.8384	4.8384
LT Agriculture	22	100	0	0.00	0	0	0	0
LT Others	201	0	0.665	0.665	1.33	134	0.2348	0.2348
HT Railways	0	0	0	0	0	0	0	0
HT Industrial	3	0	4.3373	4.3373	8.6746	1575	1.518	1.52
HT Commercial	0	0	0	0	0	0	0	0
HT Others	0	0	0	0	0	0	0	0
Total	12310	100	77.6243	28.17	105.794	16234	12.4936	12.4936

Assets**		Periyasemur
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	3
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	58
Total Number 11 kV Feeders	Numbers	5
Number of Metered 11 kV Feeders	Numbers	5
Total Length of 11 kV Feeders (Overhead)	kM	19.5
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	189.23
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	90
Total Capacity of Distribution Transformers	MVA	19.303
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	85.77



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Estimated Peak Demand	MW	15.4
Estimated Average Demand	MW	13.5
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					135	9481	0	9616
LT Commercial	No.					34	1491	0	1525
LT Industry	No.					742	201	0	943
LT Agriculture	No.					0	22	100	122
LT Others	No.					4	197	0	201
HT Railways	No.					0	0	0	0
HT Industrial	No.					3	0	0	3
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

11 kV feeders at 33/11 kV SS	No.					5		0	5
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					90		80	170
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

24. Project Area Name : Rasipuram(ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	11671	0	23.16	3	26.16	28470	3.09	3.09
LT Commercial	3160	0	6.43	1	7.43	7710	0.84	0.84
LT Industry	543	0	1.7	0.4	2.1	1330	0.14	0.14
LT Agriculture	0	269	0.55		0.55	660	0	0
LT Others	210	0	0.43	0.2	0.63	510	0.08	0.08
HT Railways	0	0	0		0	0	0	0
HT Industrial	2	0	0.002		0.002	50	5	5.00
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	15586	269	32.272	4.60	36.872	38730	9.15	9.15



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	3
Total Number of Power Transformers	Numbers	7
Total Capacity of Power Transformers	MVA	440
Total Number 110/33 kV Feeders	Numbers	3
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	50
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	12.175
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	58.698
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	60
Total Capacity of Distribution Transformers	MVA	9.45
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	36.872
Estimated Peak Demand	MW	8.2
Estimated Average Demand	MW	6.5
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				893	10778	0	11671	
LT Commercial	No.				43	3117	0	3160	
LT Industry	No.				7	536	0	543	
LT Agriculture	No.				0	0	269	269	
LT Others	No.				5	205	0	210	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				2	0	0	2	
HT Commercial	No.				0	0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	NIL	NIL	0	0
Export Points above 33kV level	No.					NIL	NIL	0	0
33 kV Feeder at 33/11 kV SS	No.					NIL	NIL	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					NIL	NIL	0	0
Export Points at 33kV feeders	No.					NIL	NIL	0	0
11 kV feeders at 33/11 kV SS	No.					2	NIL	0	2
Import Points at 11kV feeders	No.					NIL	NIL	0	0
Export Points at 11kV feeders	No.					2	NIL	0	2
Distribution Transformers	No.					52	NIL	0	52
Import Points at LT feeders	No.					NIL	NIL	0	0
Export Points at LT feeders	No.					0	NIL	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

25. Project Area Name: Salem(ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	221318	0	272.84	14.96	287.8	253587	68.6	68.6
LT Commercial	42571	0	191.75	9.2	200.95	43795	91	91
LT Industry	14043	0	140.676	8.2	148.88	108484	70	70
LT Agriculture	0	4125	0		0	5212	0	0
LT Others	6050	0	46.5	6.2	52.7	4901	9.88	9.88



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Railways	1	0	1.25		1.25	200	0.06	0.06
HT Industrial	62	0	105	11.5	116.5	52030	38.88	38.88
HT Commercial	4	0	6.65	0.9	7.55	948	2.59	2.59
HT Others	1	0	0.85		0.85	250	0.29	0.29
Total	284050	4125	765.516	50.96	816.473	469407	281.3	281.3

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	240
Total Number 110/33 kV Feeders	Numbers	2
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	6
Total Number of Power Transformers	Numbers	14
Total Capacity of Power Transformers	MVA	314
Total Number 11 kV Feeders	Numbers	32
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	297.18
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	1442.92
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	1606



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Capacity of Distribution Transformers	MVA	350.583
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	8
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	816.87
Estimated Peak Demand	MW	186.796
Estimated Average Demand	MW	149.43
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				1025	80386	0	81411	
LT Commercial	No.				523	25409	0	25932	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Industry	No.					2050	27244	0	29294
LT Agriculture	No.					0	15	420	435
LT Others	No.					0	2100	0	2100
HT Railways	No.					1	0	0	1
HT Industrial	No.					29	0	0	29
HT Commercial	No.					4	0	0	4
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					32		0	32
Export Points at 11kV feeders	No.					9		0	9
Distribution Transformers	No.					1272		334	1606
Import Points at LT feeders	No.					0		1606	1606
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

26. Project Area Name: Sathyamangalam (ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Domestic	7917	0	7.27	7.27	14.54	13854	1.06	1.06
LT Commercial	2311	0	1.62	1.62	3.24	34665	0.81	0.81
LT Industry	116	0	1.42	1.42	2.84	812	0.22	0.22
LT Agriculture	786	750	0	0.00	0	4261	0	0
LT Others	297		0.43	0.43	0.86	356	0.79	0.79
HT Railways	0	0	0	0	0	0	0	0
HT Industrial	0	0	0	0	0	0	0	0.00
HT Commercial	0	0	0	0	0	180	0	0
HT Others	2	0	1.06	1.06	2.12	0	0.49	0.49
Total	11429	750	11.8	15.30	27.1	54128	3.37	3.37

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	300
Total Number 110/33 kV Feeders	Numbers	2
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
		0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	52
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	47



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	148.48
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	88
Total Capacity of Distribution Transformers	MVA	10.19
Total Number of Energy Import Points for the Project Area	Numbers	5
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	4
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	24.45
Estimated Peak Demand	MW	6.87
Estimated Average Demand	MW	6.75
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					0	7917	0	7917
LT Commercial	No.					30	2281	0	2311
LT Industry	No.					27	89	0	116
LT Agriculture	No.					0	36	750	786
LT Others	No.					0	297		297
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					0	0	0	0
HT Others	No.					2	0	0	2
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					82		6	88
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

27. Project Area Name: Tiruchengode(ERD)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	22852	0	21.89		21.89	26445.15	5.9	5.9
LT Commercial	5653	0	18.39		18.39	7846.77	5.7	5.7
LT Industry	3316	0	25.64		25.64	25476.25	7.2	7.2
LT Agriculture	28	527	0		0	2479.54	0	0
LT Others	497	0	13.22		13.22	1235.46	2.9	2.9
HT Railways	0	0			0			0
HT Industrial	9	0	17.1		17.1	4659.3	3.7	3.70
HT Commercial	0	0			0			0
HT Others	0	0	0		0	0		0
Total	32355	527	96.24	17.31	113.55	68142.47	25.4	25.4

Assets**		Tiruchengode
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	50
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	4
Total Length of 11 kV Feeders (Overhead)	kM	62.58
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	370.5
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	247
Total Capacity of Distribution Transformers	MVA	53.55
Total Number of Energy Import Points for the Project Area	Numbers	0
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	4
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	113.55
Estimated Peak Demand	MW	37
Estimated Average Demand	MW	33



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points | Days | 90 |

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				450	22402		22852	
LT Commercial	No.				248	5405		5653	
LT Industry	No.				829	2487		3316	
LT Agriculture	No.				0	28	527	555	
LT Others	No.				42	455	0	497	
HT Railways	No.				0	0		0	
HT Industrial	No.				9	0		9	
HT Commercial	No.				0	0		0	
HT Others	No.				0	0		0	
Assets									
Import Points above 33kV level	No.				0	0	0	0	
Export Points above 33kV level	No.					0	0	0	
33 kV Feeder at 33/11 kV SS	No.					0	0	0	
Import Points at 33kV feeders other than 33/11 kV SS	No.					0	0	0	
Export Points at 33kV feeders	No.					0	0	0	
11 kV feeders at 33/11 kV SS	No.					0	0	0	
Import Points at 11kV feeders	No.					0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at 11kV feeders	No.					4		0	4
Distribution Transformers	No.					247		0	247
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT System					
GIS Based					
Non-GIS Based					

28. Project Area Name: Vellakoil(ERD)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9646	0	1.45	0.3	1.75	7717	0.123	0.123
LT Commercial	2296	0	0.59	0.1	0.69	3444	0.325	0.325
LT Industry	1549	0	0.85	0.44	1.29	12392	0.399	0.399
LT Agriculture	0	666	0	0.00	0	2664	0	0
LT Others	353	0	0.07	0	0.07	177	0.021	0.021
HT Railways	0	0	0	0	0	0	0	0
HT Industrial	29	0	4.35	0.5	4.85	13050	1.523	1.52
HT Commercial	0	0	0	0	0	0	0	0
HT Others	0	0	0	0	0	0	0	0
Total	13873	666	7.31	1.34	8.65	39444	2.391	2.391

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	4



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Capacity of Power Transformers	MVA	56
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	37
Total Number 11 kV Feeders	Numbers	8
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	30
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	560
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	142
Total Capacity of Distribution Transformers	MVA	24.074
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	15.08
Estimated Peak Demand	MW	17
Estimated Average Demand	MW	15
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				135	9481	0	9616	
LT Commercial	No.				34	1491	0	1525	
LT Industry	No.				742	201	0	943	
LT Agriculture	No.				0	22	100	122	
LT Others	No.				4	197	0	201	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				3	0	0	3	
HT Commercial	No.				0	0	0	0	
HT Others	No.				0	0	0	0	
Assets									
Import Points above 33kV level	No.				0	0	0	0	
Export Points above 33kV level	No.					0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					5		0	5
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					90		80	170
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

33 kV System				
GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

MADURAI

29. Project Area Name : Bodinayakanur (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	16062	0	6.18		6.18	1310.6	1.94	1.94
LT Commercial	3233	0	5.24		5.24	3292.7	1.13	1.13
LT Industry	116	0	5.88		5.88	1225.6	0.93	0.93
LT Agriculture	0	218	0.49		0.49	1010	0	0
LT Others	283	0	0.38		0.38	254.4	0.09	0.07
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	19694	218	18.17	5.47	23.64	7093.3	4.09	4.07



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	10
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 22 kV Feeders	Numbers	1
Number of Metered 22 kV Feeders	Numbers	1
Total Length of 22 kV Feeders (Overhead)	kM	18.16
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	92.81
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	49
Total Capacity of Distribution Transformers	MVA	8.68
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	23.66
Peak Demand	MW	7.32
Average Demand	MW	5.64
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	35.2
Estimated Peak Demand	MW	10.5
Estimated Average Demand	MW	8.1
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				1310	14752	0	16062	
LT Commercial	No.				349	2884	0	3233	
LT Industry	No.				81	35	0	116	
LT Agriculture	No.				0	0	218	218	
LT Others	No.				42	241	0	283	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				0	0	0	0	
HT Others	No.				0	0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets									
Import Points above 33kV level	No.			0	0	0	0	0	0
Export Points above 33kV level	No.				0		0	0	0
33 kV Feeder at 33/11 kV SS	No.				0		0	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.				0		0	0	0
Export Points at 33kV feeders	No.				0		0	0	0
11 kV feeders at 33/11 kV SS	No.			3	0		0	0	3
Import Points at 11kV feeders	No.			1	0		0	0	1
Export Points at 11kV feeders	No.			2	0		0	0	2
Distribution Transformers	No.			0	0		49	0	49
Import Points at LT feeders	No.				0		0	0	0
Export Points at LT feeders	No.				0		0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

30. Project Area Name : Chinnamanur (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9589	0	5.96		5.78	5817	1.3	1.13
LT Commercial	2434	0	2.81		2.73	1924	0.66	0.65
LT Industry	144	0	1.3		1.26	2302	1.11	1.1
LT Agriculture	0	298	0		0	1612	0	0
LT Others	83	0	0.75		0.73	910	0.33	0.32
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	12250	298	10.82	28.17	38.99	12565	3.4	3.2

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	10
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 22 kV Feeders	Numbers	1
Number of Metered 22 kV Feeders	Numbers	0
Total Length of 22 kV Feeders (Overhead)	kM	22.5
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	81
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	55
Total Capacity of Distribution Transformers	MVA	7.41
Total Number of Energy Import Points for the Project Area	Numbers	1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	282.22
Estimated Peak Demand	MW	67.68
Estimated Average Demand	MW	62.56
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				8659	109778	0	118437	
LT Commercial	No.				1540	29018	0	30558	
LT Industry	No.				1019	1485	0	2504	
LT Agriculture	No.				0	176	1711	1887	
LT Others	No.				658	3532	938	5128	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Railways	No.					1	0	0	1
HT Industrial	No.					13	0	0	13
HT Commercial	No.					27	0	0	27
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	3	0	0	3
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					3		0	3
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					29		0	29
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		6	6
Distribution Transformers	No.					680		80	760
Import Points at LT feeders	No.					0		1509	1509
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

31. Project Area Nmae : Devakottai (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	8650	0	4.94	0		7500	0.75	0.67
LT Commercial	1538	0	1.59	0		6152	0.84	0.75
LT Industry	73	0	2.868	0		1597	1.33	1.33



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Agriculture	66	61	0.001	1.45	246.18	0	0
LT Others	194	0	0.416	0	580	0.16	0.12
HT Railways	0	0	0	0	0	0	0
HT Industrial	4	0	2.96	0	1125	1.97	1.97
HT Commercial	0	0	0	0	0	0	0
HT Others	0	0	0	0	0		
Total	10555	61	12.775	1.45	17200	5.05	4.84

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 110/33 kV Feeders	Numbers	4
Total Length of 66/33 kV Feeders (Overhead)	kM	27.9
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	27.9
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	80
Total Length of LT Lines (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Distribution Transformers	Numbers	53
Total Capacity of Distribution Transformers	MVA	7763
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	16.77
Peak Demand	MW	4.98
Average Demand	MW	4.5
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	
Estimated Peak Demand	MW	
Estimated Average Demand	MW	
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	180 days

Project Area	No.	Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					1002	10506		8650



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Commercial	No.					806	2291		1538
LT Industry	No.					39	96		103
LT Agriculture	No.					0	15	50	66
LT Others	No.					8	268		194
HT Railways	No.					0	NIL		NIL
HT Industrial	No.					1	NIL		4
HT Commercial	No.						NIL		NIL
HT Others	No.						NIL		NIL
Assets									
Import Points above 33kV level	No.				0	1	0	0	1
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					1		1	2
Import Points at 33kV feeders other than 33/11 kV SS	No.					1		0	1
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					4		0	4
Import Points at 11kV feeders	No.					4		0	4
Export Points at 11kV feeders	No.					0		5	5
Distribution Transformers	No.					53		0	53
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

32. Project area Name : Dindigul (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs.	Rs. Cr.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

							Cr.	
LT Domestic	47435	0	25.38		25.38	56719	11.23	11.23
LT Commercial	14750	0	30.57		30.57	18412	24.32	24.32
LT Industry	2727	0	15.3		15.3	18089	4.89	4.89
LT Agriculture	0	69	0		0	229	0	0
LT Others	768	0	1.49		1.49	1880	5.5	5.5
HT Railways	1	0	0.47		0.47	99	0.27	0.27
HT Industrial	3	0	25.92		25.92	4293	4.19	4.19
HT Commercial	3	0	1.77		1.77	436	0.99	0.99
HT Others	3	0	1.22		1.22	486	0.63	0.63
Total	65690	69	102.12		25.80	127.92	100643	52.02

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	2
Total Length of 110/66/33 kV Feeders (Overhead)	kM	20.81
Total Length of 110/66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	82
Total Number 22/11 kV Feeders	Numbers	4
Number of Metered 22/11 kV Feeders	Numbers	0
Total Length of 22/11 kV Feeders (Overhead)	kM	44.507



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 22/11kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	426.35
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	214
Total Capacity of Distribution Transformers	MVA	53.238
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	120.16
Estimated Peak Demand	MW	26.79
Estimated Average Demand	MW	18.7
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					32220	15215	0	47435
LT Commercial	No.					8973	5777	0	14750
LT Industry	No.					2712	15	0	2727
LT Agriculture	No.					0	0	69	69
LT Others	No.					672	96	0	768
HT Railways	No.					1	0	0	1
HT Industrial	No.					3	0	0	3
HT Commercial	No.					3	0	0	3
HT Others	No.					3	0	0	3
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					4		0	4
Import Points at 11kV feeders	No.					0		4	4
Export Points at 11kV feeders	No.					0		2	2
Distribution Transformers	No.					0		214	214
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based					
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

33. Project Area Name : Gudalooore (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	8224	0	5.3		5.3	5244	2.6	2.53
LT Commercial	1052	0	2.3		2.3	708	2.8	2.73
LT Industry	45	0	2.9		2.9	618	2.9	2.79
LT Agriculture		568	0		0	3875	0	0
LT Others		40	0		0	91	0.3	0.28
HT Railways		0	0		0	0	0	0
HT Industrial	1	0	0		0	261	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0			0	0	0	0
Total	9322	608	10.5	10.62	21.12	10797	8.6	8.33

Assets**		Gudalooore
Total Number of EHV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	26
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/22 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	26
Total Number 22kV Feeders	Numbers	3
Number of Metered 22 kV Feeders	Numbers	3
Total Length of 22 kV Feeders (Overhead)	kM	89.48
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	157.89
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	76
Total Capacity of Distribution Transformers	MVA	8.395
Total Number of Energy Import Points for the Project Area	Numbers	5
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	0
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	32.09
Estimated Peak Demand	MW	4.57
Estimated Average Demand	MW	4.12
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					161	8063	0	8224
LT Commercial	No.					87	965	0	1052
LT Industry	No.					15	30	0	45
LT Agriculture	No.					0	0	568	568
LT Others	No.					16	57	43	116
HT Railways	No.					0	0	0	0
HT Industrial	No.					1	0	0	1
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					76		0	76



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based				
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34. Project Area Name : Kambam (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	12876	0	5.3		5.3	11948	1.6	1.53
LT Commercial	3785	0	4.4		4.4	5819	2.8	2.73
LT Industry	212	0	4.2		4.2	3520	2.9	2.79
LT Agriculture	0	59	0		0	305	0	0
LT Others	162	0	2.9		2.9	229	0.3	0.28
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0			0	0	0	0
Total	17035	59	16.8	3.14	19.94	21821	7.6	7.33

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	16
Total Number 110/33 kV Feeders	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	16
Total Number 22 kV Feeders	Numbers	1
Number of Metered 22 kV Feeders	Numbers	0
Total Length of 22 kV Feeders (Overhead)	kM	18.54
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	94.2
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	57
Total Capacity of Distribution Transformers	MVA	9.39
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	0
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	19.09
Estimated Peak Demand	MW	4.88
Estimated Average Demand	MW	4.27



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90
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Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					212	16384	0	16596
LT Commercial	No.					202	0	0	202
LT Industry	No.					81	0	0	81
LT Agriculture	No.					0	0	59	59
LT Others	No.					11	145	0	156
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at 11kV feeders	No.					0		17	17
Distribution Transformers	No.					40		0	40
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT System					
GIS Based					
Non-GIS Based					

35. Project Area Name: Karaikudi (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	24321	0	136.27	136.27	136	22713	11.5	11.5
LT Commercial	9892	0	38.81	38.81	38.8	5635	16.22	16.22
LT Industry	406	0	243.6	243.6	244	4060	4.62	4.62
LT Agriculture	35	35	0	0	0	85	0	0
LT Others	397	0	4.65	4.65	4.65	344	1.84	1.84
HT Railways	3	0	0.7	0.7	0.7	5	0.36	0.36
HT Industrial	7	0	42.55	42.55	42.6	1794	12.75	12.75
HT Commercial	0	0	0	0	0	0	0	0
HT Others	0	0	0	0	0	0	0	0
Total	35061	35	466.58	466.58	466.58	34636	47.29	47.29

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Capacity of Power Transformers	MVA	26
Total Number 110/33 kV Feeders	Numbers	8
Total Length of 66/33 kV Feeders (Overhead)	kM	49.237
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	26
Total Number 11 kV Feeders	Numbers	8
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	49.237
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	235
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	145
Total Capacity of Distribution Transformers	MVA	23.166
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	11.825
Peak Demand	MW	27.66



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Average Demand	MW	20.4
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	
Estimated Peak Demand	MW	
Estimated Average Demand	MW	
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.						8650		8650
LT Commercial	No.						1538		1538
LT Industry	No.				7	96			103
LT Agriculture	No.					5	61		66
LT Others	No.					194			194
HT Railways	No.					NIL			NIL
HT Industrial	No.				4	NIL			4
HT Commercial	No.					NIL			NIL
HT Others	No.					NIL			NIL
Assets									
Import Points above 33kV level	No.				0	1	NIL	0	1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points above 33kV level	No.					NIL	NIL	0	0
33 kV Feeder at 33/11 kV SS	No.					NIL	NIL	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					NIL	NIL	0	0
Export Points at 33kV feeders	No.					NIL	NIL	0	0
11 kV feeders at 33/11 kV SS	No.					2	NIL	0	2
Import Points at 11kV feeders	No.					NIL	NIL	0	0
Export Points at 11kV feeders	No.					8	NIL	0	8
Distribution Transformers	No.					145	NIL	0	145
Import Points at LT feeders	No.					NIL	NIL	0	0
Export Points at LT feeders	No.					0	NIL		0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based				
33 kV System				
GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

36. Project Area Name : Kodaikanal (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	7667	0	9.06		9.06	18745.42	3.8	3.8
LT Commercial	1394	0	9.09		9.09	5891.41	4.6	4.6
LT Industry	26	0	0.09		0.09	601.45	0.06	0.06
LT Agriculture	0	0	0		0	0	0	0
LT Others	507	0	0.66		0.66	37290.58	0.514	0.514
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	2999.14	0.326	0.326
HT Commercial	7	0	1.6		1.6	0	0	0
HT Others	0	0	0		0	0	0	0
Total	9601	0	20.5	0.93	21.43	65528	9.3	9.3



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 110/66/33 kV Feeders (Overhead)	kM	57.97
Total Length of 110/66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	10
Total Number 22/11 kV Feeders	Numbers	2
Number of Metered 22/11 kV Feeders	Numbers	0
Total Length of 22/11 kV Feeders (Overhead)	kM	9.088
Total Length of 22/11kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	67.312
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	52
Total Capacity of Distribution Transformers	MVA	8.963
Total Number of Energy Import Points for the Project Area	Numbers	0
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	20.1
Estimated Peak Demand	MW	7.42
Estimated Average Demand	MW	5.3
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				12	7655	0	7667	
LT Commercial	No.				93	1301	0	1394	
LT Industry	No.				14	12	0	26	
LT Agriculture	No.				0	0	0	0	
LT Others	No.				119	388	0	507	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				7	0	0	7	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					2		0	2
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		2	2
Distribution Transformers	No.					0		52	52
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

37. Project Area Name: keelakkarai (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	8693		4.92		4.92	8258.35	1	1
LT Commercial	1906		1.45		1.45	1667.75	1.5	1.5
LT Industry	47		3.5		3.5	82.25	0.5	0.5
LT Agriculture	0		0		0	0		
LT Others	102		1.75		1.75	76.5	0.25	0.25
HT Railways	0							



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Industrial	0							
HT Commercial	0							
HT Others	0							
Total	10748	0	11.62	1.61	13.23	10084.85	3.25	3.25

Assets**		Keelakkarai
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 110/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	1
Number of Metered 11 kV Feeders	Numbers	1
Total Length of 11 kV Feeders (Overhead)	kM	8.6
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	24.6
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	24



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Capacity of Distribution Transformers	MVA	4800
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	10.276
Estimated Peak Demand	MW	2.96
Estimated Average Demand	MW	2.495
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					457	8684		9141



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Commercial	No.					162	1632		1794
LT Industry	No.					40	162		202
LT Agriculture	No.						29	24	53
LT Others	No.					12	259		271
HT Railways	No.								0
HT Industrial	No.					2			2
HT Commercial	No.								0
HT Others	No.					1			1
Assets									
Import Points above 33kV level	No.				0	1			1
Export Points above 33kV level	No.								0
33 kV Feeder at 33/11 kV SS	No.								0
Import Points at 33kV feeders other than 33/11 kV SS	No.								0
Export Points at 33kV feeders	No.								0
11 kV feeders at 33/11 kV SS	No.					4			4
Import Points at 11kV feeders	No.					3			3
Export Points at 11kV feeders	No.					1			1
Distribution Transformers	No.					40			40
Import Points at LT feeders	No.							81	81
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

38. Project Area Name : Madurai Town (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs.	Rs. Cr.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

							Cr.	
LT Domestic	320430		337.142		337.142	256344	50.705	48.692
LT Commercial	76057		102.657		102.657	91268	64.144	61.598
LT Industry	5358		37.063		37.063	107160	17.595	16.897
LT Agriculture	0	3660		8.893	8.89	14640		
LT Others	12756	3256	34.42	0.187	34.607	9607	9.336	8.966
HT Railways	3		5.254		5.254	1200	2.716	2.716
HT Industrial	25		59.726		59.726	1500	29.311	28.721
HT Commercial	27		23.282		23.282	10800	14.387	14.383
HT Others	26		15.989		15.989	8400	5.831	5.594
Total	414682	6916	615.533	9.08	624.613	500919	194.03	187.567

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	6
Total Number of Power Transformers	Numbers	16
Total Capacity of Power Transformers	MVA	256
Total Number 66/33 kV Feeders	Numbers	8
Total Length of 66/33 kV Feeders (Overhead)	kM	10.556
Total Length of 66/33 kV Feeders (Under-ground)	kM	5.772
Total Number of 66/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	8
Total Number of Power Transformers	Numbers	14
Total Capacity of Power Transformers	MVA	109
Total Number 11 kV Feeders	Numbers	72
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	246.729



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 11 kV Feeders (Under-ground)	kM	11.649
Total Length of LT Lines (Overhead)	kM	1059.162
Total Length of LT Lines (Under-ground)	kM	3.348
Total Number of Distribution Transformers	Numbers	1524
Total Capacity of Distribution Transformers	MVA	352.218
Total Number of Energy Import Points for the Project Area	Numbers	11
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	11
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	761.607
Estimated Peak Demand	MW	215.73
Estimated Average Demand	MW	204.92
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others				
Consumers								
LT Domestic	No.					320430		320430
LT Commercial	No.					76057		76057
LT Industry	No.					5358		5358
LT Agriculture	No.						3660	3660
LT Others	No.					12756	3256	16012
HT Railways	No.					3		3
HT Industrial	No.					25		25
HT Commercial	No.					27		27
HT Others	No.					26		26
Assets								
Import Points above 33kV level	No.					8		8
Export Points above 33kV level	No.							0
33 kV Feeder at 33/11 kV SS	No.							0
Import Points at 33kV feeders other than 33/11 kV SS	No.					33		33
Export Points at 33kV feeders	No.						12	12
11 kV feeders at 33/11 kV SS	No.						10	10
Import Points at 11kV feeders	No.						1524	1524
Export Points at 11kV feeders	No.							0
Distribution Transformers	No.							0
Import Points at LT feeders	No.					8		8
Export Points at LT feeders	No.							0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	81		XML	
LT					
GIS Based					
Non-GIS Based	100	414601		XML	
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based	100	8		XML	
11 kV System					
GIS Based					
Non-GIS Based	100	72		XML	
LT System					
GIS Based					
Non-GIS Based	100	1524		XML	

39. Project Area Name: Melur (MDU)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9599		8.963		8.963	7679	1.609	1.52
LT Commercial	2196		3.69		3.69	5272	1.402	1.31
LT Industry	164		0.792		0.792	2105	0.331	0.29
LT Agriculture	0	18		0.091	0.091	72	0	
LT Others	226	0	0.787	0	0.787	194	0.273	0.2
HT Railways	0		0		0	0	0	0
HT Industrial	0		0		0	0	0	0
HT Commercial	0		0		0	0	0	0
HT Others	0		0		0	0	0	0
Total	12185	18	14.232	0.091	14.323	15322	3.615	3.32

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	10
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

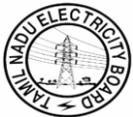
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 11 kV Feeders	Numbers	1
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	18.49
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	70.01
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	40
Total Capacity of Distribution Transformers	MVA	8.9
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	17.17
Estimated Peak Demand	MW	4.12



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Estimated Average Demand	MW	3.81
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				1847	7752			9599
LT Commercial	No.				742	1454			2196
LT Industry	No.				126	38			164
LT Agriculture	No.						18		18
LT Others	No.				102	124			226
HT Railways	No.								0
HT Industrial	No.								0
HT Commercial	No.								0
HT Others	No.								0
Assets									
Import Points above 33kV level	No.								0
Export Points above 33kV level	No.								0
33 kV Feeder at 33/11 kV SS	No.								0
Import Points at 33kV feeders other than 33/11 kV SS	No.								0
Export Points at 33kV feeders	No.								0
11 kV feeders at 33/11 kV SS	No.					1			1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at 11kV feeders	No.					1		2	3
Export Points at 11kV feeders	No.							3	3
Distribution Transformers	No.					40			40
Import Points at LT feeders	No.								0
Export Points at LT feeders	No.								0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based					
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

40. Project Area Name : Palani (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	16632	0	12.93		12.93	16085	3.37	3.37
LT Commercial	4571	0	5.42		5.42	7782	6.26	6.26
LT Industry	217	0	2.22		2.22	3949	0.84	0.84
LT Agriculture	0	30	0		0	74	0	0
LT Others	301	0	1.46		1.46	429	0.62	0.62
HT Railways	0	0	0		0	0	0	0
HT Industrial	1	0	0.56		0.56	122	0.31	0.31
HT Commercial	3	0	7.86		7.86	500	1.07	1.07
HT Others	0	0	0		0	0	0	0
Total	21725	30	30.45	7.15	37.6	28941	12.47	12.47

Assets**	Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers 1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 110/66/33 kV Feeders (Overhead)	kM	90.87
Total Length of 110/66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	41
Total Number 22/11 kV Feeders	Numbers	1
Number of Metered 22/11 kV Feeders	Numbers	0
Total Length of 22/11 kV Feeders (Overhead)	kM	16.737
Total Length of 22/11kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	108.43
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	92
Total Capacity of Distribution Transformers	MVA	20.025
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	35.3
Estimated Peak Demand	MW	19.4
Estimated Average Demand	MW	12.6
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					2495	14137	0	16632
LT Commercial	No.					2205	2366	0	4571
LT Industry	No.					2712	67	0	2779
LT Agriculture	No.					0	0	30	30
LT Others	No.					248	53	0	301
HT Railways	No.					0	0	0	0
HT Industrial	No.					1	0	0	1
HT Commercial	No.					3	0	0	3
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

than 33/11 kV SS									
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					3		0	3
Import Points at 11kV feeders	No.					0		4	4
Export Points at 11kV feeders	No.					0		2	2
Distribution Transformers	No.					0		92	92
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based					
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

41. Project Area Name : Paramakudi (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	22435		6.96		6.96	14582.75	2.5	2.5
LT Commercial	5623		3.8		3.8	2530.35	2.1	2.1
LT Industry	192		6.3		6.3	144	2.6	2.6
LT Agriculture	18	18			0	40.284		
LT Others	330		8.5		8.5	264	1.6	1.6
HT Railways	0							
HT Industrial	0							
HT Commercial	0							
HT Others	0							
Total	28598	18	25.56	8.20	33.76	17561.384	8.8	8.8



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Paramakudi
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 110/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	30
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	4
Total Length of 11 kV Feeders (Overhead)	kM	12.5
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	28.4
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	54
Total Capacity of Distribution Transformers	MVA	10.876
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	30.5
Estimated Peak Demand	MW	2.6
Estimated Average Demand	MW	2.5
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				457	8684		9141	
LT Commercial	No.				162	1632		1794	
LT Industry	No.				40	162		202	
LT Agriculture	No.					29	24	53	
LT Others	No.				12	259		271	
HT Railways	No.							0	
HT Industrial	No.				2			2	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Commercial	No.							0
HT Others	No.					1		1
Assets								
Import Points above 33kV level	No.				0	1		1
Export Points above 33kV level	No.							0
33 kV Feeder at 33/11 kV SS	No.							0
Import Points at 33kV feeders other than 33/11 kV SS	No.							0
Export Points at 33kV feeders	No.							0
11 kV feeders at 33/11 kV SS	No.					4		4
Import Points at 11kV feeders	No.					3		3
Export Points at 11kV feeders	No.					1		1
Distribution Transformers	No.					40		40
Import Points at LT feeders	No.						81	81
Export Points at LT feeders	No.					0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

42. Project Area Name: Periyakulam (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	10196	0	4.52		4.52	5960	1.45	1.43
LT Commercial	2130	0	1.27		1.27	1598	1.26	1.24
LT Industry	133	0	0.4		0.4	835	0.26	0.25
LT Agriculture	131	100	0.4		0.4	500	0	0
LT Others	201	0	0.34		0.34	435	0.1	0.1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	1	0	0.26		0.26	67.5	0.11	0.11
HT Others	0	0	0		0	0	0	0
Total	12792	100	7.19	7.85	15.04	9395.5	3.18	3.13

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV and 33/22 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 22 KV Feeders	Numbers	1
Number of Metered 22 KV Feeders	Numbers	0
Total Length of 22 KV Feeders (Overhead)	kM	9.75
Total Length of 22 KV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	39
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	40
Total Capacity of Distribution Transformers	MVA	6.35



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	7.85
Estimated Peak Demand	MW	6.9
Estimated Average Demand	MW	5.4
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				7020	3176	0	10196	
LT Commercial	No.				1980	150	0	2130	
LT Industry	No.				100	33	0	133	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Agriculture	No.					0	31	100	131
LT Others	No.					191	10	0	201
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					1	0	0	1
HT Others	No.					7020	3176	0	10196
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					0		40	40
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

43. Project Area Name: Ramanathpuram (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	17400		8.5		8.5	16530	1.22	1.22
LT Commercial	5650		7.5		7.5	4802.5	1.5	1.5
LT Industry	130		6.2		6.2	97.5	1.4	1.4



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Agriculture	2	2	0	0	4.476			
LT Others	300		6.5	6.5	525	1.3	1.3	
HT Railways	0							
HT Industrial	0				0			
HT Commercial	0							
HT Others	1		5		180	1.7		
Total	23483	2	33.7	0.01	33.71	22139.476	7.12	5.42

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 110/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	35
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	15
Total Length of 11 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of LT Lines (Overhead)	kM	30
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	67
Total Capacity of Distribution Transformers	MVA	12.9
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	4
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	34.02
Estimated Peak Demand	MW	2.518
Estimated Average Demand	MW	2.495
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					457	8684		9141
LT Commercial	No.					162	1632		1794
LT Industry	No.					40	162		202
LT Agriculture	No.						29	24	53
LT Others	No.					12	259		271
HT Railways	No.								0
HT Industrial	No.					2			2
HT Commercial	No.								0
HT Others	No.					1			1
Assets									
Import Points above 33kV level	No.				0	1			1
Export Points above 33kV level	No.								0
33 kV Feeder at 33/11 kV SS	No.								0
Import Points at 33kV feeders other than 33/11 kV SS	No.								0
Export Points at 33kV feeders	No.								0
11 kV feeders at 33/11 kV SS	No.					4			4
Import Points at 11kV feeders	No.					3			3
Export Points at 11kV feeders	No.					1			1
Distribution Transformers	No.					40			40
Import Points at LT feeders	No.							81	81
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

44. Project Area Name : Rameshwaram (MDU)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	7819		5.9		5.9	6255.2	1.75	1.75
LT Commercial	2293		3.2		3.2	1719.75	0.25	0.25
LT Industry	50		5.4		5.4	47.5	0.05	0.05
LT Agriculture	3	3	1.1		1.1	6.714	0.3	
LT Others	261		1.5		1.5	169.65	0.1	0.1
HT Railways	1		2		2	225	0.2	0.2
HT Industrial								
HT Commercial	0							
HT Others	1		2			135	0.25	
Total	10428	3	21.1	0.02	21.115	8558.814	2.9	2.35

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 110/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	16
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	30
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	22
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	45
Total Capacity of Distribution Transformers	MVA	6676
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	20.5
Estimated Peak Demand	MW	5.97
Estimated Average Demand	MW	5.97



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90
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Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				457	8684			9141
LT Commercial	No.				162	1632			1794
LT Industry	No.				40	162			202
LT Agriculture	No.					29	24		53
LT Others	No.				12	259			271
HT Railways	No.								0
HT Industrial	No.				2				2
HT Commercial	No.								0
HT Others	No.				1				1
Assets									
Import Points above 33kV level	No.				0	1			1
Export Points above 33kV level	No.								0
33 kV Feeder at 33/11 kV SS	No.								0
Import Points at 33kV feeders other than 33/11 kV SS	No.								0
Export Points at 33kV feeders	No.								0
11 kV feeders at 33/11 kV SS	No.					4			4
Import Points at 11kV feeders	No.					3			3



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at 11kV feeders	No.					1		1
Distribution Transformers	No.					40		40
Import Points at LT feeders	No.						81	81
Export Points at LT feeders	No.					0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT System					
GIS Based					
Non-GIS Based					

45. Project Area Name: Sivagangai (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	14923	0	11	11	11	15310.2	2	2
LT Commercial	3650	0	4	4	4	3000	2	2
LT Industry	150	0	3	3	3	10000	1.5	1.5
LT Agriculture	54	54	0	0	0	200	0	0
LT Others	749	0	1.5	1.5	1.5	6800	0.5	0.5
HT Railways	0	0	0	0	0	0	0	0
HT Industrial	0	0	0	0	0	0	0	0
HT Commercial	0	0	0	0	0	0	0	0
HT Others	0	0	0	0	0	0	0	0
Total	19526	54	19.5	19.5	19.5	35310.2	6	6

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	3



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Capacity of Power Transformers	MVA	150
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	30
Total Number 11 kV Feeders	Numbers	1
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	25
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	191
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	75
Total Capacity of Distribution Transformers	MVA	11250
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	25
Estimated Peak Demand	MW	7
Estimated Average Demand	MW	6
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					1025	80386		81411
LT Commercial	No.					523	25409		25932
LT Industry	No.					2050	27244		29294
LT Agriculture	No.					0	15	420	435
LT Others	No.					0	2100	0	2100
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	3			
Export Points above 33kV level	No.					3			



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

33 kV Feeder at 33/11 kV SS	No.					3		
Import Points at 33kV feeders other than 33/11 kV SS	No.					3		
Export Points at 33kV feeders	No.					0		
11 kV feeders at 33/11 kV SS	No.					0	1	1
Import Points at 11kV feeders	No.					0	3	6
Export Points at 11kV feeders	No.					0	2	12
Distribution Transformers	No.					0	75	75
Import Points at LT feeders	No.						0	0
Export Points at LT feeders	No.							

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based				
33 kV System				
GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

46. Project Area Name : Theni allinagaram(MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	21277	0	10.15		10.15	20570	5.61	5.61
LT Commercial	5701	0	3.7		3.7	11560	3.32	3.32
LT Industry	372	0	10.5		10.5	4070	2.11	2.11
LT Agriculture	70	0	0.5		0.5	317.42	1.62	1.62
LT Others	251	0	0.63		0.63	860	2.73	2.73
HT Railways	0	0	0		0	0	0	0
HT Industrial	4	0	15.36		15.36	2430	2.14	2.14
HT Commercial	1	0	0.6		0.6	57	1.53	1.53
HT Others	1	0	0.73		0.73	77	1.69	1.69
Total	27677	0	42.17	10.50	52.67	39941.42	20.75	20.75



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	61
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 22 kV Feeders	Numbers	5
Number of Metered 22kV Feeders	Numbers	0
Total Length of 22 kV Feeders (Overhead)	kM	42.22
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	130.65
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	123
Total Capacity of Distribution Transformers	MVA	22476
Total Number of Energy Import Points for the Project Area	Numbers	6
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	0
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	53.02
Estimated Peak Demand	MW	19.35
Estimated Average Demand	MW	10.82
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				8659	2553	0	11212	
LT Commercial	No.				1540	620	0	2160	
LT Industry	No.				1019	62	0	1081	
LT Agriculture	No.				0	0	0	0	
LT Others	No.				658	186	0	844	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				4	0	0	4	
HT Commercial	No.				1	0	0	1	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Others	No.					1	0	0	1
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		5	5
Import Points at 11kV feeders	No.					0		6	6
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					0		123	123
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

47. Project Area Name : Thirumangalam (MDU)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	21381		13.82		13.82	17532	2.481	2.283
LT Commercial	3997		3.64		3.64	5396	0.372	0.364
LT Industry	171		1.81		1.81	2217	0.756	0.697
LT Agriculture	0	98		0.485	0.485	412		
LT Others	238	0	0.93	0	0.93	186	0.322	0.314



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Railways	0		0		0	0	0	0
HT Industrial	1		0.3		0.3	210	0.12	0.12
HT Commercial	0		0		0	0	0	0
HT Others	0		0		0	0	0	0
Total	25788	98	20.5	0.485	20.985	25953	4.051	3.778

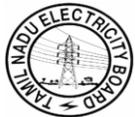
Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 11 kV Feeders	Numbers	1
Number of Metered 11 kV Feeders	Numbers	1
Total Length of 11 kV Feeders (Overhead)	kM	10.275
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	108.606



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	50
Total Capacity of Distribution Transformers	MVA	10.5
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	25.21
Estimated Peak Demand	MW	4.5
Estimated Average Demand	MW	4.12
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
	GSM/ GPRS/ EDGE	CDMA	LPR/Others					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Consumers								
LT Domestic	No.					4843	16538	21381
LT Commercial	No.					1841	2156	3997
LT Industry	No.					153	18	171
LT Agriculture	No.							98
LT Others	No.					114	124	238
HT Railways	No.					0		0
HT Industrial	No.					1		1
HT Commercial	No.					0		0
HT Others	No.					0		0
Assets								
Import Points above 33kV level	No.				0			0
Export Points above 33kV level	No.							0
33 kV Feeder at 33/11 kV SS	No.							0
Import Points at 33kV feeders other than 33/11 kV SS	No.							0
Export Points at 33kV feeders	No.							0
11 kV feeders at 33/11 kV SS	No.					0	1	1
Import Points at 11kV feeders	No.					1	1	2
Export Points at 11kV feeders	No.						3	3
Distribution Transformers	No.					0	50	50
Import Points at LT feeders	No.						0	0
Export Points at LT feeders	No.							0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/assets covered (e.g. HT, LT, poles, lines,
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based					
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

48. Project Area Name: Usilampatty (MDU)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9949		8.723		8.723	8456	1.732	1.695
LT Commercial	2215		2.127		2.127	2724	1.521	1.335
LT Industry	123		0.672		0.672	1816	0.34	0.281
LT Agriculture	0	60		0.321	0.321	232	0	
LT Others	876	0	0.784		0.784	572	0.324	0.315
HT Railways	0		0		0	0	0	0
HT Industrial	0		0		0	0	0	0
HT Commercial	0		0		0	0	0	0
HT Others	0		0		0	0	0	0
Total	13163	60	12.306	0.321	12.627	13800	3.917	3.626

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 11 kV Feeders	Numbers	1
Number of Metered 11 kV Feeders	Numbers	1
Total Length of 11 kV Feeders (Overhead)	kM	5.907
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	144.25
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	47
Total Capacity of Distribution Transformers	MVA	9
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	14.965
Estimated Peak Demand	MW	2.743
Estimated Average Demand	MW	2.51



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90
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Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					1753	8196		9949
LT Commercial	No.					852	1363		2215
LT Industry	No.					107	16		123
LT Agriculture	No.							60	60
LT Others	No.					342	534		876
HT Railways	No.					0			0
HT Industrial	No.					0			0
HT Commercial	No.					0			0
HT Others	No.					0			0
Assets									
Import Points above 33kV level	No.				0				0
Export Points above 33kV level	No.								0
33 kV Feeder at 33/11 kV SS	No.								0
Import Points at 33kV feeders other than 33/11 kV SS	No.								0
Export Points at 33kV feeders	No.								0
11 kV feeders at 33/11 kV SS	No.					0		1	1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at 11kV feeders	No.							1	1
Export Points at 11kV feeders	No.							2	2
Distribution Transformers	No.					0		47	47
Import Points at LT feeders	No.							0	0
Export Points at LT feeders	No.								0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based					
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

TIRUNELVELI

49. Project Area Name: Ambasamuthiram (TNVLI)

Project Area (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9141		4.92		4.92	8149	0.76	0.76
LT Commercial	1794		1.36		1.36	4318	1.31	1.31
LT Industry	202		2.4		2.4	1847	0.054	0.054
LT Agriculture	29	24	0.04		0.04	136		
LT Others	271		0.2		0.2	1594	0.497	0.497
HT Railways	0							
HT Industrial	2					855		
HT Commercial	0							
HT Others	1					252		
Total	11440	24	8.92	1.61	10.53	17151	2.621	2.621

Assets	Project Area
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	2 X 100
Total Number 110/33 kV Feeders	Numbers	2
Total Length of 66/33 kV Feeders (Overhead)	kM	88.581
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	9.5
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	25.1
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	40
Total Capacity of Distribution Transformers	MVA	6.55
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	1
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	10.276
Estimated Peak Demand	MW	2.518
Estimated Average Demand	MW	2.495
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				457	8684		9141	
LT Commercial	No.				162	1632		1794	
LT Industry	No.				40	162		202	
LT Agriculture	No.					29	24	53	
LT Others	No.				12	259		271	
HT Railways	No.							0	
HT Industrial	No.				2			2	
HT Commercial	No.							0	
HT Others	No.				1			1	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets									
Import Points above 33kV level	No.				0	1			1
Export Points above 33kV level	No.								0
33 kV Feeder at 33/11 kV SS	No.								0
Import Points at 33kV feeders other than 33/11 kV SS	No.								0
Export Points at 33kV feeders	No.								0
11 kV feeders at 33/11 kV SS	No.					2			2
Import Points at 11kV feeders	No.					1			1
Export Points at 11kV feeders	No.					1			1
Distribution Transformers	No.					40			40
Import Points at LT feeders	No.							81	81
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

50. Project Area Name : Kadayanallur (TNVLI)

Project Area (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	18395		14.36		14.36	15635.8	2.04	2.04
LT Commercial	2522		1.57		1.57	1134.9	0.98	0.98
LT Industry	138		0.78		0.78	1018.9	0.35	0.35
LT Agriculture	122	102			0	462		
LT Others	387		0.75		0.75	464.4	0.76	0.76
HT Railways	0							
HT Industrial	0							
HT Commercial	0							
HT Others	0							
Total	21564	102	17.46	3.06	20.52	18716	4.13	4.13



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area Name
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2 X 50
Total Capacity of Power Transformers	mVA	100
Total Number 66/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	9.3
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 66/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2 X 10
Total Capacity of Power Transformers	mVA	20
Total Number 11 kV Feeders	Numbers	1
Number of Metered 11 kV Feeders	Numbers	1
Total Length of 11 kV Feeders (Overhead)	kM	39.76
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	187.8
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	81
Number of Metered Distribution Transformers	Numbers	17.413
Total Capacity of Distribution Transformers	mVA	0
Total Number of Energy Import Points for the Project Area	Numbers	0
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area Name
Number of Metered Energy Export Points for the Project Area	Numbers	
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	20.52
Peak Demand	MW	5.42
Average Demand	MW	5.2
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	
Estimated Peak Demand	MW	
Estimated Average Demand	MW	
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				910	17485		18395	
LT Commercial	No.				126	2396		2522	
LT Industry	No.				112	26		138	
LT Agriculture	No.				122		102	224	
LT Others	No.				19	368		387	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Railways	No.							
HT Industrial	No.							
HT Commercial	No.							
HT Others	No.							
Assets								
Import Points above 33kV level	No.				0	1		1
Export Points above 33kV level	No.							
33 kV Feeder at 33/11 kV SS	No.							
Import Points at 33kV feeders other than 33/11 kV SS	No.							
Export Points at 33kV feeders	No.							
11 kV feeders at 33/11 kV SS	No.					1		1
Import Points at 11kV feeders	No.							
Export Points at 11kV feeders	No.							
Distribution Transformers	No.					32	49	81
Import Points at LT feeders	No.						188	188
Export Points at LT feeders	No.					0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

51. Project Area Name: ARUPPUKOTTAI (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	21030	0	27.6654		27.67	15110	2.6	2.6
LT Commercial	4968	0	15.6016		15.6	7410	2.2	2.2
LT Industry	1716	0	13.1516		13.15	4560	0.85	0.85



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Agriculture	110	110	0.7844	0.784	49	0	0
LT Others	520		2.156	2.156	136	0.63	0.63
HT Railways		0		0			0
HT Industrial	2	0	2.842	2.842	178	1.32	1.32
HT Commercial	1	0	0.686	0.686	175	0.3	0.3
HT Others	0	0	0	0	0	0	0
Total	28347	110	62.887	4.45	67.34	27618	7.9

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	57
Total Number 110/33 kV Feeders	Numbers	3
Total Length of 66/33 kV Feeders (Overhead)	kM	78.7
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	32
Total Number 11 kV Feeders	Numbers	7
Number of Metered 11 kV Feeders	Numbers	7
Total Length of 11 kV Feeders (Overhead)	kM	55.597
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	173.05
Total Length of LT Lines (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Distribution Transformers	Numbers	98
Total Capacity of Distribution Transformers	MVA	20.163
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	1
Total Number of Energy Export Points for the Project Area	Numbers	
Number of Metered Energy Export Points for the Project Area	Numbers	
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	67.34
Estimated Peak Demand	MW	9.476
Estimated Average Demand	MW	6.86
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
	GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers								



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Domestic	No.					21030	0	21030
LT Commercial	No.					4968	0	4968
LT Industry	No.				63	1653	0	1716
LT Agriculture	No.						110	110
LT Others	No.					520		520
HT Railways	No.					0	0	0
HT Industrial	No.				2	0	0	2
HT Commercial	No.				1	0	0	1
HT Others	No.				0	0	0	0
Assets								
Import Points above 33kV level	No.				0	0	0	
Export Points above 33kV level	No.				0		0	
33 kV Feeder at 33/11 kV SS	No.				0		0	
Import Points at 33kV feeders other than 33/11 kV SS	No.				3		0	
Export Points at 33kV feeders	No.						0	
11 kV feeders at 33/11 kV SS	No.						0	0
Import Points at 11kV feeders	No.				3		0	
Export Points at 11kV feeders	No.						0	
Distribution Transformers	No.				98		0	98
Import Points at LT feeders	No.				0		0	
Export Points at LT feeders	No.				320		0	320

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	3			
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

52. Project Area Name : KOLLENCODE (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	6857	-	2.55		2.55	2704.6	0.51	0.504
LT Commercial	716	-	0.61965		0.62	606.83	0.309	0.308
LT Industry	39	-	0.32805		0.328	335.73	0.411	0.408
LT Agriculture	28	-	-		0	82		
LT Others	116	-	0.1458		0.146	134.55		
HT Railways	0	-	-		0	-		
HT Industrial	0	-	-		0	-		
HT Commercial	0	-	-		0	-		
HT Others	0	-	-		0	-		
Total	7756	0	3.6435	0.84	4.482	3863.71	1.23	1.22

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	26
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	20
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	26
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 11 kV Feeders (Overhead)	kM	21.341
Total Length of 11 kV Feeders (Under-ground)	kM	0.15
Total Length of LT Lines (Overhead)	kM	80.975
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	45
Total Capacity of Distribution Transformers	MVA	4.519
Total Number of Energy Import Points for the Project Area	Numbers	5
Number of Metered Energy Import Points for the Project Area	Numbers	5
Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	5
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	4.483
Peak Demand	MW	3.8637
Average Demand	MW	3.09
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	4.483
Estimated Peak Demand	MW	3.8637
Estimated Average Demand	MW	3.09
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					512	6345	-	6857
LT Commercial	No.					63	653	-	716
LT Industry	No.					7	32	-	39
LT Agriculture	No.					-	28	-	28
LT Others	No.					9	107	-	116
HT Railways	No.					-	0	-	0
HT Industrial	No.					-	0	-	0
HT Commercial	No.					-	0	-	0
HT Others	No.					-	0	-	0
Assets									
Import Points above 33kV level	No.				0				
Export Points above 33kV level	No.								
33 kV Feeder at 33/11 kV SS	No.								
Import Points at 33kV feeders other than 33/11 kV SS	No.								
Export Points at 33kV feeders	No.								
11 kV feeders at 33/11 kV SS	No.								0
Import Points at 11kV feeders	No.								
Export Points at 11kV feeders	No.								
Distribution Transformers	No.								0
Import Points at LT feeders	No.								
Export Points at LT feeders	No.								0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based					
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

53. Project Area Name: Kovilpatti (TNVLI)

Project area (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	28479	0	15.61	0	15.61	19087.4	1.9	1.9
LT Commercial	9267	0	7.32	0	7.32	30847.4	3.69	3.69
LT Industry	622	0	3.38	0	3.38	9330	2.94	2.94
LT Agriculture	0	2	0	0	0	4.5	0	0
LT Others	524	0	1.03	0	1.03	1520	0.42	0.42
HT Railways	0	0	0	0	0	0	0	0
HT Industrial	3	0	65.95	0	65.95	11250	27.88	27.88
HT Commercial	1	0	0.85	0	0.85	170	0.47	0.47
HT Others	0	0	0	0	0	0		0
Total	38896	2	94.14	9.76	103.9	72209.26	37.3	37.3

Assets**		Kovilpatti
Total Number of EHV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	mVA	400
Total Number 66/33 kV Feeders	Numbers	2
Total Length of 66/33 kV Feeders (Overhead)	kM	141
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 66/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	mVA	42
Total Number 11 kV Feeders	Numbers	7
Number of Metered 11 kV Feeders	Numbers	7
Total Length of 11 kV Feeders (Overhead)	kM	24.84
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	86.75
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	87
Total Capacity of Distribution Transformers	mVA	21.25
Total Number of Energy Import Points for the Project Area	Numbers	
Number of Metered Energy Import Points for the Project Area	Numbers	1
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	104.9
Peak Demand	MW	22.12
Average Demand	MW	17.6
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	282.22
Estimated Peak Demand	MW	67.68
Estimated Average Demand	MW	62.56
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR	Metered with	Metered with	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Compatible Meters	Static Meters	Electro-magnetic Meters & Others		
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					0	28479	0	28479
LT Commercial	No.					26	9241	0	9267
LT Industry	No.					104	518	0	622
LT Agriculture	No.					0	0	1711	1711
LT Others	No.					1	523	938	1462
HT Railways	No.					0	0	0	0
HT Industrial	No.					3	0	0	3
HT Commercial	No.					1	0	0	1
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	3	0	0	3
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					3		0	3
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					7		0	7
Import Points at 11kV feeders	No.							6	6
Export Points at 11kV feeders	No.					0		2	2
Distribution Transformers	No.					59		28	87
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	4			
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based	25				
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

54. Project Area Name : Muthiahpuram (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	6549	0	56.2		56.2	7858	0.69	0.69
LT Commercial	1410	0	14.8		14.8	2115	0.94	0.94
LT Industry	209	0	4.5		4.5	2925	0.3	0.3
LT Agriculture	58	0	0		0	203	0	0
LT Others	222	210	7.9		7.9	777	0.52	0.52
HT Railways	0	0	0		0	0	0	0
HT Industrial	4	0	100.57		100.6	24255	13.11	13.11
HT Commercial	0	0			0		0	0
HT Others	7	0	175		175	13815	12.44	12.44
Total	8459	210	358.97	9.60	368.6	51948	28	28

Assets		Muthiahpuram
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	mVA	200
Total Number 66/33 kV Feeders	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets		Muthiahpuram
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 66/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	mVA	26
Total Number 11 kV Feeders	Numbers	6
Number of Metered 11 kV Feeders	Numbers	6
Total Length of 11 kV Feeders (Overhead)	kM	30
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	150
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	54
Total Capacity of Distribution Transformers	mVA	7.726
Total Number of Energy Import Points for the Project Area	Numbers	0
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	7
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	357.8
Estimated Peak Demand	MW	18.17



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets		Muthiahpuram
Estimated Average Demand	MW	5.2
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					6549	0	6549	
LT Commercial	No.				10	1400	0	1410	
LT Industry	No.				40	169	0	209	
LT Agriculture	No.					58	0	58	
LT Others	No.					222	0	222	
HT Railways	No.						0	0	
HT Industrial	No.				4		0	4	
HT Commercial	No.						0	0	
HT Others	No.				7		0	7	
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0	0	0	
33 kV Feeder at 33/11 kV SS	No.					0	0	0	
Import Points at 33kV feeders other	No.					0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

than 33/11 kV SS									
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					6		0	6
Import Points at 11kV feeders	No.								
Export Points at 11kV feeders	No.					7		6	
Distribution Transformers	No.					50		4	54
Import Points at LT feeders	No.							0	
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	11			
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

55. Project Area Name : Nagercoil (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	59190	0	156.99		157	12453.25	15.32	14.91
LT Commercial	15672	0	61.37		61.37	54210.55	9.65	9.42
LT Industry	1547	0	29.34		29.34	50214.35	5.68	5.46
LT Agriculture	221	112	0.51		0.51	853.6	0	0
LT Others	1701	21	13.65		13.65	1254.65	2.36	2.3
HT Railways	1	0	2.14		2.14	325.65	1.07	1.07
HT Industrial	3	0	17.58		17.58	32654.52	2.31	2.3
HT Commercial	4	0	15.63		15.63	20145.65	3.25	3.25
HT Others	4	0	12.65		12.65	17589.36	1.89	1.88
Total	78343	133	309.86	21.38	331.2	189701.6	41.53	40.59



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	6
Total Capacity of Power Transformers	MVA	84
Total Number 110/33 kV Feeders	Numbers	2
Total Length of 66/33 kV Feeders (Overhead)	kM	20
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	3
Total Number of Power Transformers	Numbers	8
Total Capacity of Power Transformers	MVA	99
Total Number 11 kV Feeders	Numbers	15
Number of Metered 11 kV Feeders	Numbers	15
Total Length of 11 kV Feeders (Overhead)	kM	114
Total Length of 11 kV Feeders (Under-ground)	kM	1.4
Total Length of LT Lines (Overhead)	kM	464
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	300
Total Capacity of Distribution Transformers	MVA	54.314
Total Number of Energy Import Points for the Project Area	Numbers	15
Number of Metered Energy Import Points for the Project Area	Numbers	15
Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	331.24
Estimated Peak Demand	MW	48.2
Estimated Average Demand	MW	47.5
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				4380	54810	0	59190	
LT Commercial	No.				514	15158	0	15672	
LT Industry	No.				547	1000	0	1547	
LT Agriculture	No.				0	109	112	221	
LT Others	No.				14	1666	21	1701	
HT Railways	No.				1	0	0	1	
HT Industrial	No.				3	0	0	3	
HT Commercial	No.				4	0	0	4	
HT Others	No.				4	0	0	4	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets								
Import Points above 33kV level	No.			0	3	0	0	
Export Points above 33kV level	No.				0		0	
33 kV Feeder at 33/11 kV SS	No.				3		0	
Import Points at 33kV feeders other than 33/11 kV SS	No.				0		0	
Export Points at 33kV feeders	No.				0		0	
11 kV feeders at 33/11 kV SS	No.				15		0	15
Import Points at 11kV feeders	No.				0		0	
Export Points at 11kV feeders	No.				0		5	
Distribution Transformers	No.				300			300
Import Points at LT feeders	No.				0			
Export Points at LT feeders	No.				0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	12			
LT					
GIS Based					
Non-GIS Based	10				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

56. Project area name : Rajapalayam (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	36994	0	116.39		116.4	38103.82	14.2	13.98
LT Commercial	7251	0	66.43		66.43	8657.69	37.28	36.9
LT Industry	1216	0	9.44		9.44	5228.8	3.69	3.87
LT Agriculture	63	61	6.18		6.18	220.5	0	0
LT Others	342		9.16		9.16	171.2	2.9	2.5
HT Railways		0			0			
HT Industrial	23	0	12.53		12.53	19503	50.4	50.4
HT Commercial		0			0			



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Others	0	0	0	0	0	0	0	0
Total	45889	61	220.13	7.90	228	71885.01	108.47	107.65

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	400
Total Number 110/33 kV Feeders	Numbers	2
Total Length of 66/33 kV Feeders (Overhead)	kM	32.75
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	6
Total Capacity of Power Transformers	MVA	84
Total Number 11 kV Feeders	Numbers	16
Number of Metered 11 kV Feeders	Numbers	16
Total Length of 11 kV Feeders (Overhead)	kM	58.719
Total Length of 11 kV Feeders (Under-ground)	kM	0.18
Total Length of LT Lines (Overhead)	kM	161.964
Total Length of LT Lines (Under-ground)	kM	0.04
Total Number of Distribution Transformers	Numbers	1722
Total Capacity of Distribution Transformers	MVA	36.226
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	228.032
Estimated Peak Demand	MW	40.72
Estimated Average Demand	MW	37.46
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					739	36255	0	36994
LT Commercial	No.					145	7106	0	7251
LT Industry	No.					178	1038	0	1216
LT Agriculture	No.						2	61	63
LT Others	No.					7	335		342
HT Railways	No.						0	0	0
HT Industrial	No.					23	0	0	23



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Commercial	No.					0	0	0
HT Others	No.				0	0	0	0
Assets								
Import Points above 33kV level	No.			0		0	0	0
Export Points above 33kV level	No.				0		0	0
33 kV Feeder at 33/11 kV SS	No.				0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.						0	0
Export Points at 33kV feeders	No.						0	0
11 kV feeders at 33/11 kV SS	No.						0	0
Import Points at 11kV feeders	No.						0	0
Export Points at 11kV feeders	No.					135	37	172
Distribution Transformers	No.						0	0
Import Points at LT feeders	No.						0	0
Export Points at LT feeders	No.						0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	23			
LT					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

57. Project Area Name: Sattur (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	7068	0	7.135		7.135	4534	1.325	1.32
LT Commercial	2874	0	3.255		3.255	1593	1.077	1.077
LT Industry	328	0	3.338		3.338	1757	0.978	0.973



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Agriculture		1			0	2.1	0	0
LT Others	121		0.366		0.366	82.76	0.065	0.06
HT Railways		0			0			
HT Industrial		0			0			
HT Commercial		0			0			
HT Others	0	0	0		0	0	0	0
Total	10391	1	14.094	1.09	15.19	7968.86	3.445	3.43

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	11.3
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	16
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	8.653
Total Length of 11 kV Feeders (Under-ground)	kM	
Total Length of LT Lines (Overhead)	kM	50.936
Total Length of LT Lines (Under-ground)	kM	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Distribution Transformers	Numbers	34
Total Capacity of Distribution Transformers	MVA	6.389
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	2
Total Number of Energy Export Points for the Project Area	Numbers	
Number of Metered Energy Export Points for the Project Area	Numbers	
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	15.188
Estimated Peak Demand	MW	3.087
Estimated Average Demand	MW	1.7
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.						7068	0	7068



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Commercial	No.						2874	0	2874
LT Industry	No.					28	300		328
LT Agriculture	No.							1	1
LT Others	No.						121		121
HT Railways	No.						0	0	0
HT Industrial	No.						0	0	0
HT Commercial	No.						0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0		0	0	
Export Points above 33kV level	No.					0		0	
33 kV Feeder at 33/11 kV SS	No.					0		0	
Import Points at 33kV feeders other than 33/11 kV SS	No.							0	
Export Points at 33kV feeders	No.							0	
11 kV feeders at 33/11 kV SS	No.							0	0
Import Points at 11kV feeders	No.					2		0	
Export Points at 11kV feeders	No.								
Distribution Transformers	No.					34		0	34
Import Points at LT feeders	No.							0	
Export Points at LT feeders	No.					80		0	80

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

58. Project Area Name : Puliangudi (TNVLI)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	10744		8.91		8.91	6067.29	1.17	1.17
LT Commercial	1525		2.65		2.65	1198.1	0.98	0.98
LT Industry	74		0.13		0.13	2831.24	0.56	0.56
LT Agriculture		38						
LT Others	503		0.26		0.26	692.6	0.12	0.12
HT Railways	0							
HT Industrial	0							
HT Commercial	0							
HT Others	0							
Total	12846	38	11.95	2.40	14.35	10789.23	2.83	2.83

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2 X 50
Total Capacity of Power Transformers	MVA	100
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	16
Total Length of 66/33 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1 X 10
Total Capacity of Power Transformers	MVA	10
Total Number 11 kV Feeders	Numbers	1
Number of Metered 11 kV Feeders	Numbers	1
Total Length of 11 kV Feeders (Overhead)	kM	11.88
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	67.975
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	45
Total Capacity of Distribution Transformers	MVA	8.8
Total Number of Energy Import Points for the Project Area	Numbers	
Number of Metered Energy Import Points for the Project Area	Numbers	
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	2
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	16.75
Estimated Peak Demand	MW	0
Estimated Average Demand	MW	4.98



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points | Days | 90 |

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					7632	3112		10744
LT Commercial	No.					1203	322		1525
LT Industry	No.					74			74
LT Agriculture	No.							38	38
LT Others	No.					125	378		503
HT Railways	No.								
HT Industrial	No.								
HT Commercial	No.								
HT Others	No.								
Assets									
Import Points above 33kV level	No.				0	1			
Export Points above 33kV level	No.								
33 kV Feeder at 33/11 kV SS	No.								
Import Points at 33kV feeders other than 33/11 kV SS	No.								
Export Points at 33kV feeders	No.								
11 kV feeders at 33/11 kV SS	No.					1			1
Import Points at 11kV feeders	No.								
Export Points at 11kV feeders	No.								2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Distribution Transformers	No.					22		23	45
Import Points at LT feeders	No.							117	117
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					

59. Project area name : Sankarankovil (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	11254		2.56		2.56	9965	1.23	1.23
LT Commercial	2508		3.84		3.84	6450	1.75	1.75
LT Industry	1139		9.96		9.96	5848	1.25	1.25
LT Agriculture	132	108			0	464		0
LT Others	378		1.44		1.44	635	0.85	0.85
HT Railways	0							
HT Industrial	0							
HT Commercial	0							
HT Others	0							
Total	15411	108	17.8	21.24	39.035	23362	5.08	5.08

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	57.178
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	32
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	148
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	78
Total Capacity of Distribution Transformers	MVA	17.05
Total Number of Energy Import Points for the Project Area	Numbers	
Number of Metered Energy Import Points for the Project Area	Numbers	
Total Number of Energy Export Points for the Project Area	Numbers	4
Number of Metered Energy Export Points for the Project Area	Numbers	4
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	21.235
Estimated Peak Demand	MW	8.2
Estimated Average Demand	MW	7.5
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				100	11154		11254	
LT Commercial	No.				10	2498		2508	
LT Industry	No.				114	1025		1139	
LT Agriculture	No.					132	108	240	
LT Others	No.				7	371		378	
HT Railways	No.								
HT Industrial	No.								
HT Commercial	No.								
HT Others	No.								
Assets									
Import Points above 33kV level	No.				0	1		1	
Export Points above 33kV level	No.							0	
33 kV Feeder at 33/11 kV SS	No.							0	
Import Points at 33kV feeders other	No.							0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

than 33/11 kV SS								
Export Points at 33kV feeders	No.							0
11 kV feeders at 33/11 kV SS	No.				2			2
Import Points at 11kV feeders	No.							0
Export Points at 11kV feeders	No.				4			4
Distribution Transformers	No.				78			78
Import Points at LT feeders	No.						148	148
Export Points at LT feeders	No.				0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

60. Project area name : Sivagasi (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	22012	0	28.34		28.34	34308	3.85	3.845
LT Commercial	8213	0	10.4		10.4	12650	6.601	6.595
LT Industry	3251	0	31.43		31.43	35819	14.171	14.1
LT Agriculture		25	0		0	86	0	0
LT Others	646		2.017		2.017	689	0.866	0.885
HT Railways		0	0		0	0	0	0
HT Industrial	5	0	1.8		1.8	845	0.81	0.81
HT Commercial	1	0	0.54		0.54	100	0.3	0.3
HT Others	0	0	0		0	0	0	0
Total	34128	25	74.527	0.03	74.56	84497	26.598	26.535

Assets**	Project Area
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	52
Total Number 110/33 kV Feeders	Numbers	4
Total Length of 66/33 kV Feeders (Overhead)	kM	16
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	32
Total Number 11 kV Feeders	Numbers	10
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	39.58
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	112.205
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	181
Total Capacity of Distribution Transformers	MVA	57863
Total Number of Energy Import Points for the Project Area	Numbers	6
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	6
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	74.53
Estimated Peak Demand	MW	24
Estimated Average Demand	MW	20
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				2000	20012	0	22012	
LT Commercial	No.				1080	7131	0	8211	
LT Industry	No.				1271	1980	0	3251	
LT Agriculture	No.				0	0	25	25	
LT Others	No.				50	590	0	640	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				5	0	0	5	
HT Commercial	No.				1	0	0	1	
HT Others	No.				0	0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets										
Import Points above 33kV level	No.					0	0	0	0	
Export Points above 33kV level	No.						0	0		
33 kV Feeder at 33/11 kV SS	No.						0	0		
Import Points at 33kV feeders other than 33/11 kV SS	No.						0	0		
Export Points at 33kV feeders	No.						0	0		
11 kV feeders at 33/11 kV SS	No.						0	10	10	
Import Points at 11kV feeders	No.						0	6		
Export Points at 11kV feeders	No.						0	6		
Distribution Transformers	No.						0	181	181	
Import Points at LT feeders	No.						0	0		
Export Points at LT feeders	No.						0	0	0	

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	6			
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

61. Project Area Name : Tenkasi (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	18594	0	8.90		8.9	6071	1.41	1.41
LT Commercial	5905	0	4.10		4.1	4017	2.255	2.255
LT Industry	248	0	7.00		7	1424	2.5	2.5
LT Agriculture	160	8	0.00		0	626.64	0	0
LT Others	418	0	2.10		2.1	1594	0.035	0.035
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Others	0	0	0	0	0	0	0	0
Total	25325	8	22.10	4.04	26.14	13732.64	6.2	6.2

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	100
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	3
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	3
Total Length of 11 kV Feeders (Overhead)	kM	29.1
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	104.1
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	90
Total Capacity of Distribution Transformers	MVA	17.651
Total Number of Energy Import Points for the Project Area	Numbers	
Number of Metered Energy Import Points for the Project Area	Numbers	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	1
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	26.14
Estimated Peak Demand	MW	5.32
Estimated Average Demand	MW	5.1
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				2195	16399	0	18594	
LT Commercial	No.				1020	4885	0	5905	
LT Industry	No.				212	36	0	248	
LT Agriculture	No.				0	8	160	168	
LT Others	No.				18	400	0	418	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Railways	No.								0
HT Industrial	No.								0
HT Commercial	No.								0
HT Others	No.								0
Assets									
Import Points above 33kV level	No.				0	1			1
Export Points above 33kV level	No.								
33 kV Feeder at 33/11 kV SS	No.								
Import Points at 33kV feeders other than 33/11 kV SS	No.								
Export Points at 33kV feeders	No.								
11 kV feeders at 33/11 kV SS	No.					3			3
Import Points at 11kV feeders	No.								
Export Points at 11kV feeders	No.					1			1
Distribution Transformers	No.					85		5	90
Import Points at LT feeders	No.							170	170
Export Points at LT feeders	No.				0	1			1

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

62. Project Area Name : Tirunelveli (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	118437	0	140.42		140.42	122823.82	20.5	20.45
LT Commercial	30558	0	31.69		31.69	36493.38	15.89	15.4
LT Industry	2504	0	10.91		10.91	10773.73	4.36	4.3



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Agriculture	176	1711	7.14		7.14	6633.21	0	0
LT Others	4190	938	10.57		10.57	1.821	10.66	10.64
HT Railways	1	0	0.95		0.95	22.67	0.92	0.92
HT Industrial	13	0	12.16		12.16	3.281	1.04	1.04
HT Commercial	27	0	40.21		40.21	12346.35	5.04	5.04
HT Others	0	0	0		0	0	0	0
Total	155906	2649	254.05	28.17	282.22	189098.262	58.41	57.79

Assets		Tirunelveli
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	mVA	200
Total Number 66/33 kV Feeders	Numbers	6
Total Length of 66/33 kV Feeders (Overhead)	kM	100.07
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 66/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	8
Total Number of Power Transformers	Numbers	16
Total Capacity of Power Transformers	mVA	195
Total Number 11 kV Feeders	Numbers	29
Number of Metered 11 kV Feeders	Numbers	29
Total Length of 11 kV Feeders (Overhead)	kM	431.98
Total Length of 11 kV Feeders (Under-ground)	kM	44.797
Total Length of LT Lines (Overhead)	kM	1302.832
Total Length of LT Lines (Under-ground)	kM	36.273



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets		Tirunelveli
Number of Metered Distribution Transformers	Numbers	760
Total Capacity of Distribution Transformers	mVA	181.083
Total Number of Energy Import Points for the Project Area	Numbers	
Number of Metered Energy Import Points for the Project Area	Numbers	
Total Number of Energy Export Points for the Project Area	Numbers	6
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	282.22
Estimated Peak Demand	MW	67.68
Estimated Average Demand	MW	62.56
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
	GSM/ GPRS/ EDGE	CDMA	LPR/Others					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Consumers									
LT Domestic	No.					8659	109778	0	118437
LT Commercial	No.					1540	29018	0	30558
LT Industry	No.					1019	1485	0	2504
LT Agriculture	No.					0	176	1711	1887
LT Others	No.					658	3532	938	5128
HT Railways	No.					1	0	0	1
HT Industrial	No.					13	0	0	13
HT Commercial	No.					27	0	0	27
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	3	0	0	3
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					3		0	3
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					29		0	29
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		6	6
Distribution Transformers	No.					680		80	760
Import Points at LT feeders	No.					0		1509	1509
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines,
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

63. Project Area Name : SRIVILLIPUTHUR (TNVLI)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	21803	0	1.84		1.84	32245.4	1.46	1.46
LT Commercial	3368	0	0.33		0.33	4378.4	1.04	1.04
LT Industry	408	0	0.57		0.57	938.4	1.28	1.28
LT Agriculture		44	0.07		0.07	9.85	0	0
LT Others	406		0.86		0.86	609	1.21	1.21
HT Railways		0			0			
HT Industrial	2	0	0.01		0.01	373	0.86	0.86
HT Commercial		0			0			
HT Others	0	0	0		0	0	0	0
Total	25987	44	3.68	0.29	3.97	38554.05	5.85	5.85

Assets		Srivilliputhoor
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	mVA	200
Total Number 66/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	34.5
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 66/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	mVA	20



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets		Srivilliputhoor
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	27.47
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	92.03
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	69
Total Capacity of Distribution Transformers	mVA	13.163
Total Number of Energy Import Points for the Project Area	Numbers	
Number of Metered Energy Import Points for the Project Area	Numbers	
Total Number of Energy Export Points for the Project Area	Numbers	
Number of Metered Energy Export Points for the Project Area	Numbers	
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	3.68
Estimated Peak Demand	MW	5.47
Estimated Average Demand	MW	3.18
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR	Metered with	Metered with	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Compatible Meters	Static Meters	Electro-magnetic Meters & Others		
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					650	21153	0	21803
LT Commercial	No.					105	3263	0	3368
LT Industry	No.					68	340	0	408
LT Agriculture	No.							44	44
LT Others	No.					1	405		406
HT Railways	No.						0	0	0
HT Industrial	No.					2	0	0	2
HT Commercial	No.						0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0		0	0	
Export Points above 33kV level	No.					0		0	
33 kV Feeder at 33/11 kV SS	No.					0		0	
Import Points at 33kV feeders other than 33/11 kV SS	No.							0	
Export Points at 33kV feeders	No.							0	
11 kV feeders at 33/11 kV SS	No.							0	0
Import Points at 11kV feeders	No.							0	
Export Points at 11kV feeders	No.					2		0	
Distribution Transformers	No.					69		0	69
Import Points at LT feeders	No.							0	
Export Points at LT feeders	No.							0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	2			
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

64. Project Area Name : Tuticorin (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	63939	0	11.96		11.96	134270	1.66	1.66
LT Commercial	13916	0	2.92		2.92	19480	2.05	2.05
LT Industry	803	0	3.04		3.04	5220	0.65	0.65
LT Agriculture	0	0	0		0	0	0	0
LT Others	896	0	2.1		2.1	985	0.18	0.18
HT Railways	0	0	0		0	0	0	0
HT Industrial	3	0	17.5		17.5	41300	1.7	1.7
HT Commercial	2	0	0.57		0.57	690	0.5	0.5
HT Others	6	0	2.99		2.99	910	1.5	1.5
Total	79565	0	41.08	4.40	45.48	202855	8.24	8.24

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	400
Total Number 110/33 kV Feeders	Numbers	4



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 66/33 kV Feeders (Overhead)	kM	21
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	4
Total Number of Power Transformers	Numbers	8
Total Capacity of Power Transformers	MVA	119
Total Number 11 kV Feeders	Numbers	11
Number of Metered 11 kV Feeders	Numbers	11
Total Length of 11 kV Feeders (Overhead)	kM	123.8
Total Length of 11 kV Feeders (Under-ground)	kM	1.5
Total Length of LT Lines (Overhead)	kM	207
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	298
Total Capacity of Distribution Transformers	MVA	31.35
Total Number of Energy Import Points for the Project Area	Numbers	29
Number of Metered Energy Import Points for the Project Area	Numbers	29
Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	41.4
Estimated Peak Demand	MW	193
Estimated Average Demand	MW	181



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90
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Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					45	63894	0	63939
LT Commercial	No.					115	13801	0	13916
LT Industry	No.					118	685	0	803
LT Agriculture	No.					0	0	1711	1711
LT Others	No.					0	896	938	1834
HT Railways	No.					0	0	0	0
HT Industrial	No.					3	0	0	3
HT Commercial	No.					2	0	0	2
HT Others	No.					6	0	0	6
Assets									
Import Points above 33kV level	No.				0	0	0	0	
Export Points above 33kV level	No.					0		0	
33 kV Feeder at 33/11 kV SS	No.					0		0	
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	
Export Points at 33kV feeders	No.					0		0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

11 kV feeders at 33/11 kV SS	No.					11		0	11
Import Points at 11kV feeders	No.							3	
Export Points at 11kV feeders	No.							6	
Distribution Transformers	No.					295		265	560
Import Points at LT feeders	No.							50	
Export Points at LT feeders	No.					0		60	60

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	11			
LT					
GIS Based					
Non-GIS Based	50				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

65. Project Area Name : Tiruchendur (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	8900	0	11.17		11.17	9617	1.62	1.62
LT Commercial	1983	0	6.13		6.13	2301	1.4	1.4
LT Industry	82	0	3.47		3.47	296	1.1	1.1
LT Agriculture	68	275	0		0	1417	0	0
LT Others	302	0	0.73		0.73	1200	0.16	0.16
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	2	0	0.61		0.61	241	0.31	0.31
Total	11337	275	22.11	1.31	23.42	15072	4.59	4.59

Assets**	Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers 1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	16
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	20
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	10
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	26.69
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	95.72
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	44
Total Capacity of Distribution Transformers	MVA	9.5
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	1
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	2
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	25.76
Peak Demand	MW	5.7
Average Demand	MW	5.2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	
Estimated Peak Demand	MW	
Estimated Average Demand	MW	
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	Already completed

Project area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	8900	0	8900	
LT Commercial	No.				83	1900	0	1983	
LT Industry	No.				30	52	0	82	
LT Agriculture	No.				0	68	275	343	
LT Others	No.				22	286	0	308	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				0	0	0	0	
HT Others	No.				2	0	0	2	
Assets									
Import Points above 33kV level	No.				0	3	0	3	
Export Points above 33kV level	No.					0	0	0	
33 kV Feeder at 33/11 kV SS	No.					3	0	3	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at 33kV feeders other than 33/11 kV SS	No.					0	0	0
Export Points at 33kV feeders	No.					1	0	1
11 kV feeders at 33/11 kV SS	No.					2	0	2
Import Points at 11kV feeders	No.					1	0	
Export Points at 11kV feeders	No.					2	0	
Distribution Transformers	No.					43	1	44
Import Points at LT feeders	No.					0	0	
Export Points at LT feeders	No.					0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	2			
LT					
GIS Based					
Non-GIS Based	50				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

66. Project Area Name : Vikiramasingapuram (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	10451	0	7.87		7.87	8304	0.76	0.76
LT Commercial	1520	0	1.08		1.08	1904	0.61	0.61
LT Industry	96	0	0.164		0.164	448	0.07	0.07
LT Agriculture	13	12	0		0	56		0
LT Others	25	0	0.566		0.566	1	0.165	0.165
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0		
Total	12105	12	9.68	1.88	11.56	10713	1.605	1.605



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2 X 100
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	64
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	8.5
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	24.2
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	26
Total Capacity of Distribution Transformers	MVA	4.5
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	2
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	11.56
Estimated Peak Demand	MW	3.5
Estimated Average Demand	MW	3.2
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				558	9893			10451
LT Commercial	No.				78	1442			1520
LT Industry	No.				12	84			96
LT Agriculture	No.				0	13	12		25
LT Others	No.				0	25	0		25
HT Railways	No.				0	0			0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Industrial	No.					0	0		0
HT Commercial	No.					0	0		0
HT Others	No.					0	0		0
Assets									
Import Points above 33kV level	No.				0	1			
Export Points above 33kV level	No.								
33 kV Feeder at 33/11 kV SS	No.					0			
Import Points at 33kV feeders other than 33/11 kV SS	No.					0			
Export Points at 33kV feeders	No.					0			
11 kV feeders at 33/11 kV SS	No.					2			2
Import Points at 11kV feeders	No.								
Export Points at 11kV feeders	No.					2			
Distribution Transformers	No.					26			26
Import Points at LT feeders	No.							57	
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					

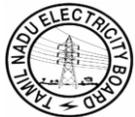


TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

67. Project Area Name: Virdhunagar (TNVLI)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	20340	0	10.04		10.04	27779	3.187	3.184
LT Commercial	6092	0	12.44		12.44	8430	2.869	2.861
LT Industry	615	0	15.98		15.98	10625	4.143	4.139
LT Agriculture		3			0	7	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Others	493		1.49		1.49	492	0.159	0.159
HT Railways	1	0	0.1		0.1	90	0.159	0.159
HT Industrial	6	0	9.2		9.2	3950	5.1	5.1
HT Commercial	1	0	0.7		0.7	220	0.319	0.318
HT Others	0	0	0		0	0	0	0
Total	27548	3	49.95	0.08	50.03	51593	15.936	15.92

Assets**		Vir dhunagar
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	52
Total Number 110/33 kV Feeders	Numbers	3
Total Length of 66/33 kV Feeders (Overhead)	kM	31
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	8
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	4
Total Length of 11 kV Feeders (Overhead)	kM	26
Total Length of 11 kV Feeders (Under-ground)	kM	
Total Length of LT Lines (Overhead)	kM	96
Total Length of LT Lines (Under-ground)	kM	
Total Number of Distribution Transformers	Numbers	145



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Capacity of Distribution Transformers	MVA	33452
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	1
Total Number of Energy Export Points for the Project Area	Numbers	6
Number of Metered Energy Export Points for the Project Area	Numbers	6
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	53.707
Estimated Peak Demand	MW	19.5
Estimated Average Demand	MW	19
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.						20340	0	20340



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Commercial	No.					56	636	0	692
LT Industry	No.					400	215	0	615
LT Agriculture	No.							3	3
LT Others	No.					15	478		493
HT Railways	No.					1	0	0	1
HT Industrial	No.					6	0	0	6
HT Commercial	No.					1	0	0	1
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	1	0	0	
Export Points above 33kV level	No.					0		0	
33 kV Feeder at 33/11 kV SS	No.					0		0	
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	
Export Points at 33kV feeders	No.					3		0	
11 kV feeders at 33/11 kV SS	No.					1		0	1
Import Points at 11kV feeders	No.					1		0	
Export Points at 11kV feeders	No.					3		0	
Distribution Transformers	No.					145		0	145
Import Points at LT feeders	No.					0		0	
Export Points at LT feeders	No.					320		0	320

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT					
GIS Based					
Non-GIS Based	100	8			
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

TRICHY

68. Project Area Name Aranthaangi (TRY)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9473	0	4.25		4.25	11367.6	0.67	0.67
LT Commercial	2600	0	4.6		4.6	6032	1.84	1.75
LT Industry	165	0	5.94		5.94	3001	1.84	1.8
LT Agriculture	0	0	0		0	0	0	0
LT Others	0	0	0		0	0	0	0
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	12238	0	14.79	1.92	16.71	20400.6	4.35	4.22

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0



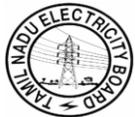
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Total Number of 110/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	1
Number of Metered 11 kV Feeders	Numbers	1
Total Length of 11 kV Feeders (Overhead)	kM	5.08
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	22.34
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	60
Total Capacity of Distribution Transformers	MVA	10.9
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	30.2
Estimated Peak Demand	MW	4.26
Estimated Average Demand	MW	2.84
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	9473	0	9473	
LT Commercial	No.				53	2547	0	2600	
LT Industry	No.				44	121	0	165	
LT Agriculture	No.				0	0	0	0	
LT Others	No.				0	0	0	0	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				0	0	0	0	
HT Others	No.				0	0	0	0	
Total									
Assets									
Import Points above 33kV level	No.				0	2	0	0	2
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		1	1
Import Points at 11kV feeders	No.					0		1	1
Export Points at 11kV feeders	No.					0		2	2
Distribution Transformers	No.					0		60	60



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based

69. Project Area Name: Jayankondam (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	8077	0	9.17		9.17	2827.00	1.1	1.1
LT Commercial	1897	0	5.83		5.83	1898.00	0.84	0.84
LT Industry	76	0	2		2	1338.00	1.33	1.33
LT Agriculture	0	77	0		0	847.00	0	0
LT Others	240	0	1.08		1.08	720.00	0.16	0.16
HT Railways	0	0	0		0	0.00	0	0
HT Industrial	0	0	0		0	0.00	0	0
HT Commercial	1	0	0.96		0.96	40.00	0.19	0.19
HT Others	0	0	0		0	0.00	0	0
Total	10291	77	19.04	3.02	22.06	7670.00	3.62	3.62

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	16
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	21.2
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	58.4
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	33
Total Capacity of Distribution Transformers	MVA	7.1
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	22.06
Estimated Peak Demand	MW	2.5
Estimated Average Demand	MW	2.4.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90
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Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					210	7867	0	8077
LT Commercial	No.					100	1797	0	1897
LT Industry	No.					7	69	0	76
LT Agriculture	No.					0	0	77	77
LT Others	No.					50	190	0	240
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					1	0		1
HT Others	No.					0	0		0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		2	2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at 11kV feeders	No.					0		1	1
Export Points at 11kV feeders	No.					0		2	2
Distribution Transformers	No.					0		33	33
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

70. Project Area Name : Karur (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	41850	0	58.98		58.98	42367.72	9.64	9.52
LT Commercial	12143	0	35.2		35.2	21091	20.64	20.4
LT Industry	1380	0	17.76		17.76	30705.59	6.57	6.41
LT Agriculture	0	443	0		0	1997.9	0	0
LT Others	998	0	3.97		3.97	3096.95	1.59	1.57
HT Railways	0	0	0		0	0	0	0
HT Industrial	2	0	0.35		0.35	65.8	0.16	0.15
HT Commercial	4	0	1		1	179.1	0.61	0.61
HT Others	2	0	0.34		0.34	225	0.18	0.17
Total	56379	443	117.6	16.03	133.63	99729.06	39.39	38.83

Assets**	Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers 0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Power Transformers	Numbers	9
Total Capacity of Power Transformers	MVA	102
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	5
Total Number of Power Transformers	Numbers	9
Total Capacity of Power Transformers	MVA	102
Total Number 11 kV Feeders	Numbers	15
Number of Metered 11 kV Feeders	Numbers	15
Total Length of 11 kV Feeders (Overhead)	kM	76.246
Total Length of 11 kV Feeders (Under-ground)	kM	0.25
Total Length of LT Lines (Overhead)	kM	371.13
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	290
Total Capacity of Distribution Transformers	MVA	59.2
Total Number of Energy Import Points for the Project Area	Numbers	15
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	9
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	130.38
Estimated Peak Demand	MW	40.56
Estimated Average Demand	MW	26.68
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				693	41397	0	42090	
LT Commercial	No.				313	11920	0	12233	
LT Industry	No.				296	1084	0	1380	
LT Agriculture	No.				0	18	453	471	
LT Others	No.				0	890	0	890	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				2	0	0	2	
HT Commercial	No.				4	0	0	4	
HT Others	No.				2	0	0	2	
Assets									
Import Points above 33kV level	No.				0	0	0	0	
Export Points above 33kV level	No.					0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		15	15
Import Points at 11kV feeders	No.					0		15	15
Export Points at 11kV feeders	No.					0		9	9
Distribution Transformers	No.					0		290	290
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

71. Project Area Name : Kumbakonam (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	28802	0	40.68		40.68	22665	4.89	4.89
LT Commercial	8599	0	16.5		16.5	12360	10.32	10.32
LT Industry	792	0	2.56		2.56	10006	1.17	1.17
LT Agriculture	0	102	0		0	513	0	0
LT Others	1002	0	3.28		3.28	1091	1.18	1.18
HT Railways	0	0	0		0	0	0	0
HT Industrial	1	0	0.42		0.42	315	0.25	0.25
HT Commercial	2	0	1.7		1.7	403	0.8	0.8
HT Others	2	0	1.08		1.08	326	0.21	0.21
Total	39200	102	66.22	8.20	74.42	47679	18.82	18.82



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	2
Total Length of 66/33 kV Feeders (Overhead)	kM	14.2
Total Length of 66/33 kV Feeders (Under-ground)	kM	0.1
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	6
Total Capacity of Power Transformers	MVA	69
Total Number 11 kV Feeders	Numbers	5
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	35.59
Total Length of 11 kV Feeders (Under-ground)	kM	1.6
Total Length of LT Lines (Overhead)	kM	154.185
Total Length of LT Lines (Under-ground)	kM	11
Total Number of Distribution Transformers	Numbers	201
Total Capacity of Distribution Transformers	MVA	49.25
Total Number of Energy Import Points for the Project Area	Numbers	8
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	8
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	81
Estimated Peak Demand	MW	18.1
Estimated Average Demand	MW	12.3
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	28802	0	28802	
LT Commercial	No.				41	8558	0	8599	
LT Industry	No.				35	757	0	792	
LT Agriculture	No.				0	0	102	102	
LT Others	No.				26	996	0	1022	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				1	0	0	1	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Commercial	No.					2	0	0	2
HT Others	No.					2	0	0	2
Assets									
Import Points above 33kV level	No.				0	2	0	0	2
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					2		0	2
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		5	5
Import Points at 11kV feeders	No.					0		8	8
Export Points at 11kV feeders	No.					0		8	8
Distribution Transformers	No.					0		201	201
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

72. Project Area Name : Manapparai (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	10206		9.7		9.7	7500	1.1	1.1
LT Commercial	3159		1.89		1.89	2527	1.15	1.15
LT Industry	382		1.87		1.87	3896	2.13	2.13
LT Agriculture	0		0		0	0	0	0
LT Others	311		2.23		2.23	376	0.75	0.75



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Railways	0	0	0	0	0
HT Industrial	1	0.98	0.98	1980	4.39
HT Commercial	0	0	0	0	0
HT Others	0	0	0	0	0
Total	14059	16.67	16.67	16279	9.52

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	52
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	1
Total Length of 11 kV Feeders (Overhead)	kM	16.08
Total Length of 11 kV Feeders (Under-ground)	kM	0.03
Total Length of LT Lines (Overhead)	kM	180.52
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	62
Total Capacity of Distribution Transformers	MVA	11.6



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	25.47
Estimated Peak Demand	MW	7.65
Estimated Average Demand	MW	5.33
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					510	9696		10206
LT Commercial	No.					300	2859		3159



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Industry	No.					107	275		382
LT Agriculture	No.					0	0		0
LT Others	No.					0	311		311
HT Railways	No.					0	0		0
HT Industrial	No.					1	0		1
HT Commercial	No.					0	0		0
HT Others	No.					0	0		0
Assets									
Import Points above 33kV level	No.					0	0	0	0
Export Points above 33kV level	No.					0	0	0	0
33 kV Feeder at 33/11 kV SS	No.					0	0	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0	0	0	0
Export Points at 33kV feeders	No.					0	0	0	0
11 kV feeders at 33/11 kV SS	No.				3	0	0	2	2
Import Points at 11kV feeders	No.					0	0	2	2
Export Points at 11kV feeders	No.					0	0	1	1
Distribution Transformers	No.					0	0	62	62
Import Points at LT feeders	No.					0	0	0	0
Export Points at LT feeders	No.					0	0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT								
GIS Based								
Non-GIS Based	0							
LT								
GIS Based								
Non-GIS Based	0							
Asset Mapping								
66 kV System								
GIS Based								
Non-GIS Based								
33 kV System								
GIS Based								
Non-GIS Based								
11 kV System								
GIS Based								
Non-GIS Based								
LT System								
GIS Based								
Non-GIS Based								

73. Project Area Name: Mannargudi (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Domestic	16696	0	18.36		18.36	23207.5	2.411	2.411
LT Commercial	4054	0	4.811		4.811	12094.8	2.62	2.62
LT Industry	188	0	1.854		1.854	2985.5	0.316	0.316
LT Agriculture	0	147	0.001		0.001	1035.4	0.001	0.001
LT Others	2100	0	2.69		2.69	1358	0.934	0.934
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	1	0	0.392		0.392	75	0.245	0.245
HT Others	0	0	0		0	0	0	0
Total	23039	147	28.108	3.98	32.088	40756.2	6.527	6.527

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	32
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	32
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	23.25
Total Length of 11 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of LT Lines (Overhead)	kM	158.65
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	94
Total Capacity of Distribution Transformers	MVA	17163
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	4.62
Estimated Peak Demand	MW	8.39
Estimated Average Demand	MW	4.62
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.						16696	0	16696
LT Commercial	No.				42		4012	0	4054
LT Industry	No.				46		142	0	188
LT Agriculture	No.						0	147	147
LT Others	No.				4		434	0	438
HT Railways	No.				0		0	0	0
HT Industrial	No.				0		0	0	0
HT Commercial	No.				1		0	0	1
HT Others	No.				0		0	0	0
Assets									
Import Points above 33kV level	No.				0	1	0	0	1
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					2		0	2
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		2	2
Import Points at 11kV feeders	No.					0		2	0
Export Points at 11kV feeders	No.					2		2	2
Distribution Transformers	No.					0		94	94
Import Points at LT feeders	No.					0		0	94
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

74. Project Area Name : Puddukkotai (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	34897	0	464.43		464.43	122823.82	20.5	20.45
LT Commercial	10521	0	46.29		46.29	36493.38	15.89	15.4
LT Industry	659	0	12.42		12.42	10773.73	4.36	4.3
LT Agriculture	21	15	0.44		0.44	6633.21	0	0
LT Others	513	0	20.91		20.91	1.821	10.66	10.64
HT Railways	0	0			0	22.67	0.92	0.92
HT Industrial	2	0	0.99		0.99	3.281	1.04	1.04
HT Commercial	1	0	0.41		0.41	12346.35	5.04	5.04
HT Others	2	0	0.26		0.26	0	0	0
Total	46616	15	546.15	92.54	638.69	189098.262	58.41	57.79

Assets**		Project Area
Total Number of EHV (230 KV)Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 66/33 kV Feeders	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	46
Total Number 22 kV Feeders	Numbers	3
Number of Metered 22 kV Feeders	Numbers	0
Total Length of 22 kV Feeders (Overhead)	kM	63.06
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	441.556
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	227
Total Capacity of Distribution Transformers	MVA	38.613
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	650
Estimated Peak Demand	MW	21
Estimated Average Demand	MW	15



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90
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Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.						34897	0	34897
LT Commercial	No.					3184	7337	0	10521
LT Industry	No.					432	227	0	659
LT Agriculture	No.					0	6	15	21
LT Others	No.					42	471	0	513
HT Railways	No.						0	0	0
HT Industrial	No.					2	0	0	2
HT Commercial	No.					1	0	0	1
HT Others	No.					2	0	0	2
Assets									
Import Points above 33kV level	No.				0	2	0	0	2
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		0	0
Import Points at 11kV feeders	No.					0		3	3



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at 11kV feeders	No.					0		2	2
Distribution Transformers	No.					227		0	227
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT System					
GIS Based					
Non-GIS Based					

75. Project Area Name : Mayiladuturai (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	19768	0	22.96		22.96	27687	1.72	1.65
LT Commercial	6271	0	7.28		7.28	18592	5.13	5.08
LT Industry	279	0	0.33		0.33	3472	0.95	0.92
LT Agriculture	0	33	0		0	220	0	0
LT Others	484	0	0.57		0.57	1811	0.47	0.46
HT Railways	0	0	0		0	54	0	0
HT Industrial	0	0	0		0	78	0	0
HT Commercial	1	0	0.36		0.36	160	0.24	0.24
HT Others	0	0	0		0	0	0	0
Total	26803	33	31.5	1.70	33.2	52074	8.51	8.35

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	32



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	32
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	27.52
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	131.71
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	141
Total Capacity of Distribution Transformers	MVA	24.252
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	31.5
Estimated Peak Demand	MW	5.48



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Estimated Average Demand	MW	4.8
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				2300	17468	0	19768	
LT Commercial	No.				1300	4971	0	6271	
LT Industry	No.				279	0	0	279	
LT Agriculture	No.				0	0	33	33	
LT Others	No.				24	460	0	484	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				1	0	0	1	
HT Others	No.				0	0	0	0	
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		3	0
Import Points at 11kV feeders	No.					0		3	3
Export Points at 11kV feeders	No.					0		2	2
Distribution Transformers	No.					0		141	141
Import Points at LT feeders	No.					0		0	141
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

76. Project Area Name : Nagapatinam(TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	26288	0	47.08		47.08	13140	0.8	0.8
LT Commercial	5516	0	5.913		5.913	1650	1.85	1.85
LT Industry	238	0	0.46		0.46	119	0.5	0.5
LT Agriculture	0	0	0		0	0	0	0
LT Others	412	0	0.516		0.516	144	0.05	0.05
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	2	0	0.53		0.53	520	2.65	2.65
HT Others	3	0	5.5		5.5	188	1.65	1.65
Total	32459	0	59.999	8.00	67.999	15761	7.5	7.5

Assets**	Project Area
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	26
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	26
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	33.62
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	268.8
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	117
Total Capacity of Distribution Transformers	MVA	23.95
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	4
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	11.89
Peak Demand	MW	10.62



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Average Demand	MW	8.49
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	0
Estimated Peak Demand	MW	0
Estimated Average Demand	MW	0
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				15772	10516	0	26288	
LT Commercial	No.				3310	2202	0	5512	
LT Industry	No.				238	0	0	238	
LT Agriculture	No.				0	0	0	0	
LT Others	No.				248	164	0	412	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				2	0	0	2	
HT Others	No.				3	0	0	3	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		4	4
Import Points at 11kV feeders	No.					0		4	4
Export Points at 11kV feeders	No.					4		4	8
Distribution Transformers	No.					0		100000	100000
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

77. Project Area Name : Pattukkottai (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	16047	0	14.72		14.72	13445	2.723	2.723
LT Commercial	5456	0	4.91		4.91	3365	2.651	2.651
LT Industry	255	0	3.17		3.17	1085	1.411	1.411
LT Agriculture	28	130	2.7		2.7	739	0	0
LT Others	289	0	3.56		3.56	975	1.246	1.246
HT Railways	0	0	0		0	0	0	0
HT Industrial	1	0	0.43		0.43	135	0.36	0.36
HT Commercial	1	0	0.29		0.29	56.7	0.18	0.18
HT Others	0	0	0		0	0	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total	22077	130	29.78	5.42	35.20	19800.7	8.571	8.571
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Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	2x100
Total Number 110/33 kV Feeders	Numbers	5
Total Length of 66/33 kV Feeders (Overhead)	kM	250
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	42
Total Number 11 kV Feeders	Numbers	9
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	41.57
Total Length of 11 kV Feeders (Under-ground)	kM	0.05
Total Length of LT Lines (Overhead)	kM	182.4
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	90
Total Capacity of Distribution Transformers	MVA	20.676
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	9



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	39.22
Estimated Peak Demand	MW	8.93
Estimated Average Demand	MW	8.72
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				525	15522	0	16047	
LT Commercial	No.				1175	4281	0	5456	
LT Industry	No.				125	130	0	255	
LT Agriculture	No.				0	28	130	158	
LT Others	No.				89	200	0	289	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				1	0	0	1	
HT Commercial	No.				1	0	0	1	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	2	0		2
Export Points above 33kV level	No.					0			0
33 kV Feeder at 33/11 kV SS	No.					0			0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0			0
Export Points at 33kV feeders	No.					0			0
11 kV feeders at 33/11 kV SS	No.					0		9	9
Import Points at 11kV feeders	No.					0		2	2
Export Points at 11kV feeders	No.					0		9	9
Distribution Transformers	No.					0		90	90
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0			0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

78. Project Area Name : Sirkali (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	8199	0	8.9		8.9	12298	1.78	1.69
LT Commercial	2352	0	2.6		2.6	4704	1.6	1.51
LT Industry	67	0	0.32		0.32	1014	0.16	0.15
LT Agriculture	0	392	0		0	1609	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Others	256	0	0.68		0.68	384	0.25	0.24
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	10874	392	12.5	0	12.5	20009	3.79	3.59

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	16
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	16
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	30.195
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	78.07
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	54



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Capacity of Distribution Transformers	MVA	8.876
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	18.2
Estimated Peak Demand	MW	4.75
Estimated Average Demand	MW	4.31
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				810	7389	0	8199	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Commercial	No.					342	2010	0	2352
LT Industry	No.					67	0	0	67
LT Agriculture	No.					0	0	392	392
LT Others	No.					40	216	0	256
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		2	2
Import Points at 11kV feeders	No.					2		2	2
Export Points at 11kV feeders	No.					1		1	1
Distribution Transformers	No.					0		54	54
Import Points at LT feeders	No.					0		0	54
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

79. Project Area Name: Perambalur (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs.	Rs. Cr.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

							Cr.	
LT Domestic	11758	0	40.72		40.72	14687.00	1.6	1.6
LT Commercial	4455	0	32.08		32.08	784.00	1.1	1.1
LT Industry	159	0	4.57		4.57	1435.00	0.7	0.7
LT Agriculture	0	395	0		0	1067.00	0	0
LT Others	250	0	9.36		9.36	2001.00	0.6	0.6
HT Railways	0	0	0		0	0.00		
HT Industrial	0	0	0		0	0.00		
HT Commercial	3	0	2.51		2.51	697.00	1.5	1.5
HT Others	0	0	0		0	0.00	0	0
Total	16625	395	89.24	3.92	93.16	20671.00	5.5	5.5

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	200
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	16
Total Number 22 kV Feeders	Numbers	1
Number of Metered 22 kV Feeders	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 22 kV Feeders (Overhead)	kM	21.62
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	151.2
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	67
Total Capacity of Distribution Transformers	MVA	12.58
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	93.16
Estimated Peak Demand	MW	2.6
Estimated Average Demand	MW	2.5
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.						6488	0	6488
LT Commercial	No.						1173	0	1173
LT Industry	No.				4		57	0	61
LT Agriculture	No.						0	66	66
LT Others	No.						171	0	171
HT Railways	No.						0	0	0
HT Industrial	No.				1		0	0	1
HT Commercial	No.						0	0	0
HT Others	No.						0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					1		0	1
Import Points at 11kV feeders	No.					0		1	1
Export Points at 11kV feeders	No.					0		1	1
Distribution Transformers	No.					10		33	43
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

80. Project Area Name: Thanjavur (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	48547	0	57.34	0	57.34	61147	8.37	8.37
LT Commercial	12896	0	31.33	0	31.33	22013	12.83	12.83
LT Industry	624	0	11.33	0	11.33	8782	1.4	1.4
LT Agriculture	137	137	0	8.99	8.99	671	0	0
LT Others	1209	29	6	0.92	6.92	4456	2.35	2.35
HT Railways	1	0	0.21	0	0.21	125	0.02	0.02
HT Industrial	0	0	0	0	0	0	0	0
HT Commercial	6	0	4	0	4	929	6.74	6.74
HT Others	5	0	3	0	3	938	15.02	15.02
Total	63425	166	113.21	9.91	123.12	99061	46.73	46.73

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 66/33 kV Feeders (Overhead)	kM	24
Total Length of 66/33 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	3
Total Number of Power Transformers	Numbers	8
Total Capacity of Power Transformers	MVA	124
Total Number 11 kV Feeders	Numbers	10
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	133.083
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	505.493
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	287
Total Capacity of Distribution Transformers	MVA	67.4
Total Number of Energy Import Points for the Project Area	Numbers	10
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	10
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	123.12
Peak Demand	MW	19.54
Average Demand	MW	11.21
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	150
Estimated Peak Demand	MW	25
Estimated Average Demand	MW	15
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					3155	45392	0	48547
LT Commercial	No.					1496	11400	0	12896
LT Industry	No.					416	208	0	624
LT Agriculture	No.					0	0	137	137
LT Others	No.					208	1001	29	1238
HT Railways	No.					1	0	0	1
HT Industrial	No.					0	0	0	0
HT Commercial	No.					6	0	0	6
HT Others	No.					5	0	0	5
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					2		0	2
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					1		0	1
11 kV feeders at 33/11 kV SS	No.					0		10	10
Import Points at 11kV feeders	No.					0		10	10
Export Points at 11kV feeders	No.					10		10	20



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Distribution Transformers	No.					0		287	287
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					287		0	287

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based				
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81. Project Area Name: Thuraiyur (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	8143	0	1.256		1.256	6242	0.12	0.12
LT Commercial	2810	0	0.426		0.426	2635	0.095	0.095
LT Industry	149	0	0.169		0.169	1725	0.024	0.024
LT Agriculture	0	149	0		0	466	0	0
LT Others	181	0	0.143		0.143	173	0.005	0.005
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	11283	149	1.994	0.115	2.109	11241	0.244	0.244

Assets**	Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	26
Total Number 11 kV Feeders	Numbers	1
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	13.06
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	216.31
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	52
Total Capacity of Distribution Transformers	MVA	10.726
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	2,447
Estimated Peak Demand	MW	3.7
Estimated Average Demand	MW	3.2
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					200	7943	0	8143
LT Commercial	No.					150	2660	0	2810
LT Industry	No.					30	119	0	149
LT Agriculture	No.					0	0	149	149
LT Others	No.					12	169	0	181
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at 33kV feeders other than 33/11 kV SS	No.					0	0	0
Export Points at 33kV feeders	No.					0	0	0
11 kV feeders at 33/11 kV SS	No.					0	1	1
Import Points at 11kV feeders	No.					1	2	3
Export Points at 11kV feeders	No.					0	2	2
Distribution Transformers	No.					0	52	52
Import Points at LT feeders	No.					0	0	0
Export Points at LT feeders	No.					0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

82. Project Area Name: Tiruchirapalli (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	179490	0	67.28		67.28	345204	9.15	9.03
LT Commercial	41302	0	36.82		36.82	69698	4.07	4.02
LT Industry	2757	0	53.56		53.56	22924	2.29	2.26
LT Agriculture	219	108	0.86		0.86	816.87	0	0
LT Others	2671	0	34.56		34.56	3822	1.84	1.82
HT Railways	5	0	7.27		7.27	5038	7.46	7.46
HT Industrial	9	0	10.57		10.57	4773	10.49	10.49
HT Commercial	24	0	19.91		19.91	6898	16.83	16.83
HT Others	22	0	18.25		18.25	5289	12.76	12.76
Total	226499	108	249.08	0.88	249.96	464462.87	64.89	64.67



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 66/33 kV Feeders	Numbers	7
Total Length of 66/33 kV Feeders (Overhead)	kM	30.84
Total Length of 66/33 kV Feeders (Under-ground)	kM	1.4
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	8
Total Number of Power Transformers	Numbers	22
Total Capacity of Power Transformers	MVA	276
Total Number 11 kV Feeders	Numbers	43
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	268.59
Total Length of 11 kV Feeders (Under-ground)	kM	2.45
Total Length of LT Lines (Overhead)	kM	913.82
Total Length of LT Lines (Under-ground)	kM	2.1
Total Number of Distribution Transformers	Numbers	942
Total Capacity of Distribution Transformers	MVA	252.86
Total Number of Energy Import Points for the Project Area	Numbers	50
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	60
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	274.17
Estimated Peak Demand	MW	54.24
Estimated Average Demand	MW	49.43
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				1790	177700	0	179490	
LT Commercial	No.				651	40656	0	41307	
LT Industry	No.				1860	897	0	2757	
LT Agriculture	No.				10	101	108	219	
LT Others	No.				103	4150	0	4253	
HT Railways	No.				5	0	0	5	
HT Industrial	No.				9	0	0	9	
HT Commercial	No.				24	0	0	24	
HT Others	No.				22	0	0	22	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		43	43
Import Points at 11kV feeders	No.					0		50	50
Export Points at 11kV feeders	No.					0		60	60
Distribution Transformers	No.					0	0	942	942
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	35				
LT					
GIS Based					
Non-GIS Based	20				
Asset Mapping					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

66 kV System				
GIS Based				
Non-GIS Based				
33 kV System				
GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

83. Project Area Name: Tiruvarur (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	16718	0	4.94		4.94	27687	3.254	3.254
LT Commercial	6586	0	1.59		1.59	18592	4.27	4.27
LT Industry	212	0	2.868		2.868	3472	0.714	0.714
LT Agriculture	0	49	0.001		0.001	220	0.001	0.001
LT Others	580	0	0.416		0.416	1811	1.082	1.082
HT Railways	1	0	0.409		0.409	54	0.144	0.144
HT Industrial	1	0	0.77		0.77	78	0.192	0.192



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Commercial	2	0	0.655		0.655	160	0.42	0.42
HT Others	0	0	0		0	0	0	0
Total	24100	49	11.649	15.78	27.429	52074	10.077	10.077

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	26
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	26
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	16.32
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	78.5
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	88
Total Capacity of Distribution Transformers	MVA	16.139
Total Number of Energy Import Points for the Project Area	Numbers	2



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	18.66
Estimated Peak Demand	MW	5.48
Estimated Average Demand	MW	4.8
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					16718	0	16718	
LT Commercial	No.					34	0	6586	
LT Industry	No.					38	0	212	
LT Agriculture	No.					49	49	49	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Others	No.					2	578	0	580
HT Railways	No.					1	0	0	1
HT Industrial	No.					1	0	0	1
HT Commercial	No.					2	0	0	2
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	1	0	0	1
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					2		0	2
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		2	2
Import Points at 11kV feeders	No.					0		2	0
Export Points at 11kV feeders	No.					2		2	2
Distribution Transformers	No.					0		88	88
Import Points at LT feeders	No.					0		0	88
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

84. Project Area Name : Vedharniyam (TRY)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9310	0	16.67		16.67	46500	0.8	0.8
LT Commercial	1086	0	1.16		1.16	2120	0.92	0.92



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Industry	295	0	0.57		0.57	1300	0.52	0.52
LT Agriculture	0	85	0	0.19	0.19	1902	0	0
LT Others	248	0	0.31		0.31	180	0.39	0.39
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	10939	85	18.71	1.80	20.51	52002	2.63	2.63

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	5
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	14.2
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	568.6



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	48
Total Capacity of Distribution Transformers	MVA	5.193
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	4.2
Peak Demand	MW	4.572
Average Demand	MW	2.286
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	0
Estimated Peak Demand	MW	0
Estimated Average Demand	MW	0
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	No.	Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					7448	1862	0	9310



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Commercial	No.					923	163	0	1086
LT Industry	No.					295	0	0	295
LT Agriculture	No.					0	0	85	85
LT Others	No.					198	50	0	248
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		2	2
Import Points at 11kV feeders	No.					0		2	2
Export Points at 11kV feeders	No.					2		2	4
Distribution Transformers	No.					0		48	48
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

VELLORE

85. Project Area Name: Ambur (VLR)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	18698	0	17.38		17.38	23080.99	3.846	3.58
LT Commercial	4505	0	9.82		9.82	4353.83	2.246	2.188
LT Industry	347	0	8.14		8.14	4446.16	1.478	1.478
LT Agriculture	0	337	0	0.03	0	1219	0	0
LT Others	465	0	1.46		1.46	612.64	0.4	0.294
HT Railways	0	0	0		0	0	0	0
HT Industrial	13	0	11.02		11.02	8359.27	5.83	5.83
HT Commercial	2	0	0.91		0.91	310.73	0.55	0.55
HT Others	0	0	0		0	0	0	0
Total	24030	337	48.73	0.03	48.73	42382.62	14.35	13.92

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	6
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	39.2
Total Length of 11 kV Feeders (Under-ground)	kM	0.8
Total Length of LT Lines (Overhead)	kM	158.02
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	114
Total Capacity of Distribution Transformers	MVA	23.289
Total Number of Energy Import Points for the Project Area	Numbers	6
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	56.62
Estimated Peak Demand	MW	17.79
Estimated Average Demand	MW	10.28
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible	Metered with Static	Metered with Electro-	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Meters	Meters	magnetic Meters & Others		
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					50	13742	0	13792
LT Commercial	No.					90	4667	0	4757
LT Industry	No.					680	0	0	680
LT Agriculture	No.					0	0	0	0
LT Others	No.					10	465	0	475
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					2		0	2
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		5	5
Distribution Transformers	No.					0		85	85
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	15			
LT					
GIS Based					
Non-GIS Based	10	2400			
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

86. Project Area Name : Arakkonam (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	15640	0	5.5		5.5	20622.38	1.15	1.15
LT Commercial	3492	0	3.8		3.8	5487.82	0.75	0.75
LT Industry	139	0	1.32		1.32	6029.33	0.95	0.95
LT Agriculture	0	0	0		0	0	0	0
LT Others	330	0	1.08		1.08	1180.53	0.4	0.4
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	19601	0	11.7	0.00	11.7	33320.06	3.25	3.25

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	48
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	16.2
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	101.5
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	83
Total Capacity of Distribution Transformers	MVA	14.59
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	11.7
Peak Demand	MW	8
Average Demand	MW	8
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	11.7
Estimated Peak Demand	MW	8
Estimated Average Demand	MW	8
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					2399	13241	0	15640
LT Commercial	No.					1335	2157	0	3492
LT Industry	No.					139	0	0	139
LT Agriculture	No.					0	0	0	0
LT Others	No.					0	330	0	330
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	1	0	0	1
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					1		0	1
Import Points at 33kV feeders other than 33/11 kV SS	No.					1		0	1
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		2	2
Import Points at 11kV feeders	No.					1		2	3



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at 11kV feeders	No.					2		2	4
Distribution Transformers	No.					0		83	83
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					

87. Project Area Name : Arcot (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	12334	0	4.4		4.4	16656	2.05	2.05
LT Commercial	1703	0	2.2		2.2	1024	1.55	1.55
LT Industry	392	0	1.9		1.9	5496	0.95	0.95
LT Agriculture	0	41		1.7	1.7	166	0	0
LT Others	296	0	1.8		1.8	119	0.8	0.8
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	14725	41	10.3	1.70	12	23461	5.35	5.35

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number 110/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	29.69
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	201.46
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	77
Total Capacity of Distribution Transformers	MVA	13.70
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	7.3
Peak Demand	MW	4
Average Demand	MW	3.2
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	7.3



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Estimated Peak Demand	MW	4
Estimated Average Demand	MW	3.2
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	12334	0	12334	
LT Commercial	No.				0	1703	0	1703	
LT Industry	No.				121	271	0	392	
LT Agriculture	No.				0	0	0	0	
LT Others	No.				0	292	0	292	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				0	0	0	0	
HT Commercial	No.				0	0	0	0	
HT Others	No.				0	0	0	0	
Assets									
Import Points above 33kV level	No.				0	1	0	1	
Export Points above 33kV level	No.					0	0	0	
33 kV Feeder at 33/11 kV SS	No.					1	0	1	
Import Points at 33kV feeders other than 33/11 kV SS	No.					1	0	1	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		4	4
Import Points at 11kV feeders	No.					1		2	3
Export Points at 11kV feeders	No.					2		2	4
Distribution Transformers	No.					0		77	77
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

88. Project Area Name : Dharmapuri (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	26570		16.34		16.34	32599	4.7	4.6
LT Commercial	6776		10.89		10.89	7438	7.29	7.2
LT Industry	1555		10.654		10.654	10137	5.8	5.8
LT Agriculture		311		1.80	1.8	1413.5	0	0
LT Others	533		1.9		1.9	1169	2.7	2.3
HT Railways					0			
HT Industrial					0			
HT Commercial	3		1.004		1.004	338	2.55	2.55
HT Others	0				0	0	0	0
Total	35437	311	40.788	1.80	42.588	53094.5	23.04	22.45



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 66/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	40
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	4
Total Length of 11 kV Feeders (Overhead)	kM	34
Total Length of 11 kV Feeders (Under-ground)	kM	
Total Length of LT Lines (Overhead)	kM	184.05
Total Length of LT Lines (Under-ground)	kM	
Total Number of Distribution Transformers	Numbers	119
Total Capacity of Distribution Transformers	MVA	22.15
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Number of Metered Energy Export Points for the Project Area	Numbers	
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	The energy was accounted in the Sub-Station end. The Sub-Station is situated in the rural area. By providing the Ring fencing arrangement the Town energy consumption will be calculated.
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	50.112
Estimated Peak Demand	MW	20
Estimated Average Demand	MW	16.9
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				10574	15996			26570
LT Commercial	No.				3049	3727			6776
LT Industry	No.				1328	227			1555
LT Agriculture	No.					10	301		311



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Others	No.					293	240		533
HT Railways	No.					0			0
HT Industrial	No.					0			0
HT Commercial	No.					3			3
HT Others	No.					0			0
Assets									
Import Points above 33kV level	No.				0				0
Export Points above 33kV level	No.					0			0
33 kV Feeder at 33/11 kV SS	No.								0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0			0
Export Points at 33kV feeders	No.					0			0
11 kV feeders at 33/11 kV SS	No.					0		4	4
Import Points at 11kV feeders	No.					4		4	8
Export Points at 11kV feeders	No.					0		3	3
Distribution Transformers	No.					0		119	119
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based	3				
LT					
GIS Based					
Non-GIS Based	35745				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

89. Project Area Name : Gudiyatham (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	20082	0	29.319		29.319	18074	4.35	4.34
LT Commercial	7058	0	12.881		12.881	3529	2.68	2.67



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Industry	565	0	2.06		2.06	4215	1.356	1.36
LT Agriculture	126	126	0	0.72	0.72	447.6	0	0
LT Others	1527	0	4.458		4.458	1298	1.09	0.97
HT Railways	0	0	0		0	0	0	0
HT Industrial	2	0	6.32		6.32	1620	6.12	6.12
HT Commercial	0	0	0		0	0	0	0
HT Others	1	0	0.4		0.4	95	0.48	0.48
Total	29361	126	55.438	11.76	67.198	29278.6	16.076	15.94

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 33 kV Feeders	Numbers	1
Total Length of 33 kV Feeders (Overhead)	kM	6.137
Total Length of 33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	16
Total Capacity of Power Transformers	MVA	16
Total Number 11 kV Feeders	Numbers	6
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	19.619
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	100.8



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	90
Total Capacity of Distribution Transformers	MVA	16.956
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	67.2
Estimated Peak Demand	MW	13.176
Estimated Average Demand	MW	12.25
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	180

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				3224	16858	0	20082	
LT Commercial	No.				847	6211	0	7058	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Industry	No.					282	283	0	565
LT Agriculture	No.					0	4	124	128
LT Others	No.					46	1481	0	1527
HT Railways	No.					0	0	0	0
HT Industrial	No.					2	0	0	2
HT Commercial	No.					0	0	0	0
HT Others	No.					1	0	0	1
Assets									
Import Points above 33kV level	No.				0	1	0	0	1
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					1		0	1
11 kV feeders at 33/11 kV SS	No.					0		1	1
Import Points at 11kV feeders	No.					0		1	1
Export Points at 11kV feeders	No.					0		5	5
Distribution Transformers	No.					0		90	90
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT					
GIS Based					
Non-GIS Based	100	3			
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

90. Project Area Name : Hosur (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Domestic		36592		56.7		56.7	20.25	4.95	4.12
LT Commercial		2610		45.7		45.7	5.95	3.85	3.83
LT Industry		1310		12.56		12.56	10.95	1.98	1.88
LT Agriculture		0		0		0	0		
LT Others		790		1.533		1.533	3.1	1.1	0.598
HT Railways		0				0	0		
HT Industrial		4		8.647		8.647	0.7	0.71	0.5
HT Commercial						0	0		
HT Others		0				0			
Total		41306	0	125.14	0.00	125.14	40.95	12.59	10.928

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 66/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	--
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	3
Total Number of Power Transformers	Numbers	8
Total Capacity of Power Transformers	MVA	94
Total Number 11 kV Feeders	Numbers	9
Number of Metered 11 kV Feeders	Numbers	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 11 kV Feeders (Overhead)	kM	17.5
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	195.5
Total Length of LT Lines (Under-ground)	kM	
Total Number of Distribution Transformers	Numbers	75
Total Capacity of Distribution Transformers	MVA	15.8
Total Number of Energy Import Points for the Project Area	Numbers	13
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	0
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	0
Estimated Peak Demand	MW	60.75
Estimated Average Demand	MW	55.25
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90 Days

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

							Meters & Others		
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					10101	26491		36592
LT Commercial	No.					1100	1510		2610
LT Industry	No.					785	525		1310
LT Agriculture	No.							0	0
LT Others	No.					210	580		790
HT Railways	No.					0	--		0
HT Industrial	No.					4	--		4
HT Commercial	No.					0			0
HT Others	No.					0			0
Assets									
Import Points above 33kV level	No.				0				0
Export Points above 33kV level	No.					0			0
33 kV Feeder at 33/11 kV SS	No.								0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0			0
Export Points at 33kV feeders	No.					0			0
11 kV feeders at 33/11 kV SS	No.							9	9
Import Points at 11kV feeders	No.							13	13
Export Points at 11kV feeders	No.							0	0
Distribution Transformers	No.							75	75
Import Points at LT feeders	No.								0
Export Points at LT feeders	No.							0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based		4			
LT					
GIS Based		0			
Non-GIS Based		41302			
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

91. Project Area Name : Kanchipuram (VLR)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	37575	0	84.32		84.3183	56362.5	7.91	7.91
LT Commercial	10031	0	26.71		26.7075	25077.5	10.845	10.845
LT Industry	556	0	1.611		1.61129	27800	3.695	3.695
LT Agriculture	0	66	0		0	272.25	0	0
LT Others	1922	0	7.957		7.95708	1441.5	1.309	1.309
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	4	0	2.148		2.148	517.5	0.63	0.63
Total	50088	66	122.74	1.26	124.002	111471.25	24.389	24.389

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	7
Total Capacity of Power Transformers	MVA	110
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	3
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	110
Total Number 11 kV Feeders	Numbers	10
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	42.414
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	347.7
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	183
Total Capacity of Distribution Transformers	MVA	52.5
Total Number of Energy Import Points for the Project Area	Numbers	5
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	105.4
Estimated Peak Demand	MW	27.62
Estimated Average Demand	MW	23.5
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.			0	0	1140	36435	0	37575
LT Commercial	No.			0	92	301	9731	0	10124
LT Industry	No.			0	132	0	424	0	556
LT Agriculture	No.			0	0	0	0	66	66
LT Others	No.			0	9	57	1856	0	1922
HT Railways	No.			0	0	0	0	0	0
HT Industrial	No.			0	0	0	0	0	0
HT Commercial	No.			0	0	0	0	0	0
HT Others	No.			0	4	4	0	0	8
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.				0	0	0	0	0
33 kV Feeder at 33/11 kV SS	No.				0	0	0	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.				0	0	0	0	0
Export Points at 33kV feeders	No.				0	0	0	0	0
11 kV feeders at 33/11 kV SS	No.				0	0	0	10	10
Import Points at 11kV feeders	No.				0	0	0	5	5
Export Points at 11kV feeders	No.				0	0	0	3	3
Distribution Transformers	No.				0	0	0	183	183



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at LT feeders	No.				0	0	0	0	0
Export Points at LT feeders	No.				0	0	0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	4		oracle	
LT					
GIS Based					
Non-GIS Based	10			oracle	
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based					
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92. Project Area Name : Krishnagiri (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	14056		27.27		27.27	32599	4.7	4.62
LT Commercial	3865		5.59		5.59	7438	3.896	3.83
LT Industry	267		3.721		3.721	10137	1.921	1.88
LT Agriculture		37		0.04	0.036	1413.5	0	0
LT Others	321		1.533		1.533	1169	0.6	0.598
HT Railways					0			
HT Industrial					0			
HT Commercial					0	338		
HT Others	0				0	0		
Total	18509	37	38.114	0.04	38.154	53094.5	11.12	10.928

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 66/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	6
Total Capacity of Power Transformers	MVA	68
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	33.163
Total Length of 11 kV Feeders (Under-ground)	kM	0.8
Total Length of LT Lines (Overhead)	kM	43.426
Total Length of LT Lines (Under-ground)	kM	
Total Number of Distribution Transformers	Numbers	67
Total Capacity of Distribution Transformers	MVA	15.513
Total Number of Energy Import Points for the Project Area	Numbers	6
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	The energy was accounted in the Sub-Station end.The Sub-Station is situated in the rural area.By providing the Ring fencing arrangement the Town energy
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		consumption will be calculated.
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	49.96
Estimated Peak Demand	MW	28.133
Estimated Average Demand	MW	20.13
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				5234	8822		14056	
LT Commercial	No.				1250	2615		3865	
LT Industry	No.				185	82		267	
LT Agriculture	No.						37	37	
LT Others	No.				112	209		321	
HT Railways	No.							0	
HT Industrial	No.							0	
HT Commercial	No.							0	
HT Others	No.							0	
Assets									



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points above 33kV level	No.				0			0
Export Points above 33kV level	No.					0		0
33 kV Feeder at 33/11 kV SS	No.							0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0
Export Points at 33kV feeders	No.					0		0
11 kV feeders at 33/11 kV SS	No.						2	2
Import Points at 11kV feeders	No.						6	6
Export Points at 11kV feeders	No.					0	1	1
Distribution Transformers	No.					0	67	67
Import Points at LT feeders	No.					0		0
Export Points at LT feeders	No.					0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based					
LT					
GIS Based					
Non-GIS Based		18546			
Asset Mapping					
66 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

93. Project Area Name: Melvishram (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	7279	0	6.93		6.93	29116	1.2	1.2
LT Commercial	841	0	1.73		1.73	1682	0.9	0.9
LT Industry	55	0	0.24		0.24	3804	1.1	1.1
LT Agriculture		36		0.37	0.37	134	0	0
LT Others	143	0	0.67		0.67	214	0.75	0.75
HT Railways	0	0	0		0	0	0.63	0.63
HT Industrial	6	0	1.78		1.78	1106	0.65	0.65
HT Commercial	0	0	0		0	0	0	0
HT Others	2	0	0.12		0.12	495	0.35	0.35



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total	8326	36	11.47	0.37	11.84	36551	5.58	5.58
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Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	30
Total Number 110/33 kV Feeders	Numbers	
Total Length of 66/33 kV Feeders (Overhead)	kM	
Total Length of 66/33 kV Feeders (Under-ground)	kM	
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	13.5
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	67.5
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	43
Total Capacity of Distribution Transformers	MVA	8.9
Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	11.84
Peak Demand	MW	2.99
Average Demand	MW	2.65
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	11.84
Estimated Peak Demand	MW	2.99
Estimated Average Demand	MW	2.65
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				8659	109778	0	118437	
LT Commercial	No.				1540	29018	0	30558	
LT Industry	No.				1019	1485	0	2504	
LT Agriculture	No.				0	176	1711	1887	
LT Others	No.				658	3532	938	5128	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				6	0	0	6	
HT Commercial	No.				0	0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Others	No.				2	0	0	2
Assets								
Import Points above 33kV level	No.			0	3	0	0	3
Export Points above 33kV level	No.				0		0	0
33 kV Feeder at 33/11 kV SS	No.				3		0	3
Import Points at 33kV feeders other than 33/11 kV SS	No.				0		0	0
Export Points at 33kV feeders	No.				0		0	0
11 kV feeders at 33/11 kV SS	No.				0		3	3
Import Points at 11kV feeders	No.				0		3	3
Export Points at 11kV feeders	No.				0		3	3
Distribution Transformers	No.				0		43	43
Import Points at LT feeders	No.				0		1509	1509
Export Points at LT feeders	No.				0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

94. Project Area Name :Pernampattu (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	7326	0	9.84		4.759	2896.34	0.784	0.78
LT Commercial	1350	0	0.956		0.956	975.81	0.66	0.65
LT Industry	376	0	5.814		5.814	9596.37	1.356	1.34
LT Agriculture	0	37	0	0.05	0.045	130.45	0	0
LT Others	92	144	0.21	0.06	0.27	70.56	0.02	0.02



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	9144	181	16.82	0.11	16.93	13669.53	2.82	2.79

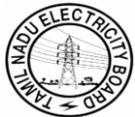
Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 33 kV Feeders	Numbers	0
Total Length of 33 kV Feeders (Overhead)	kM	0
Total Length of 33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	10
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	9.49
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	69.5
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	65
Total Capacity of Distribution Transformers	MVA	11639



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Import Points for the Project Area	Numbers	3
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	21.02
Estimated Peak Demand	MW	7.43
Estimated Average Demand	MW	7.1
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	180

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					1465	5861	0	7326
LT Commercial	No.					338	1012	0	1350
LT Industry	No.					320	56	0	376



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Agriculture	No.				0	0	37	37
LT Others	No.				20	72	107	199
HT Railways	No.				0	0	0	0
HT Industrial	No.				0	0	0	0
HT Commercial	No.				0	0	0	0
HT Others	No.				0	0	0	0
Assets								
Import Points above 33kV level	No.			0	0	0	0	0
Export Points above 33kV level	No.				0		0	0
33 kV Feeder at 33/11 kV SS	No.				0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.				0		0	0
Export Points at 33kV feeders	No.				0		0	0
11 kV feeders at 33/11 kV SS	No.				2		0	2
Import Points at 11kV feeders	No.				0		2	2
Export Points at 11kV feeders	No.				0		3	3
Distribution Transformers	No.				0		65	65
Import Points at LT feeders	No.						130	130
Export Points at LT feeders	No.				0		2	2

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based	0	0			
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

95. Project Area Name : Thirupathur (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	12452	0	26.32		26.32	10896.35	3.808	3.754



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Commercial	5001	0	7.794		7.794	18003.56	4.862	4.762
LT Industry	262	0	2.22		2.22	19640	1.056	1.04
LT Agriculture	0	0	0	0.00	0	0	0	0
LT Others	502	0	5.2		5.2	1129	1.32	1.238
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	1	0	0.586		0.586	99	0.342	0.342
HT Others	0	0	0		0	0	0	0
Total	18218	0	42.12	0.00	42.12	49767.91	11.388	11.136

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	24
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	24
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	9.62
Total Length of 11 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of LT Lines (Overhead)	kM	148.26
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	48
Total Capacity of Distribution Transformers	MVA	10.4
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	0
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	52.474
Estimated Peak Demand	MW	19.96
Estimated Average Demand	MW	17.75
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	120

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					1581	10871	0	12452
LT Commercial	No.					418	4583	0	5001
LT Industry	No.					95	167	0	262
LT Agriculture	No.					0	0	0	0
LT Others	No.					65	437	0	502
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					1	0	0	1
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	1	0	0	1
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		2	2
Import Points at 11kV feeders	No.					0		2	2
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					0		48	48
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	1			
LT					
GIS Based					
Non-GIS Based	0	0			
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

96. Project Area Name : Thiruvallur (VLR)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	13891	0	23.84		23.837	34727.5	20.5	2.28
LT Commercial	3637	0	9.41		9.41074	12729.5	15.89	3.62
LT Industry	135	0	0.96		0.9585	6750	4.36	2.08
LT Agriculture	15	15	0.07		0.0714	56.25	0	0
LT Others	153	0	0.43		0.4284	114.75	10.66	0.068
HT Railways	1	0	0.00		0.0028	100	0.92	0.92
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	17832	15	34.71	2.42	37.1288	54478	52.33	8.968

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	8
Total Capacity of Power Transformers	MVA	95
Total Number 110/33 kV Feeders	Numbers	1
Total Length of 110/33 kV Feeders (Overhead)	kM	65.7
Total Length of 110/33 kV Feeders (Under-ground)	kM	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	8
Total Capacity of Power Transformers	MVA	95
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	16.034
Total Length of 11 kV Feeders (Under-ground)	kM	0.24
Total Length of LT Lines (Overhead)	kM	125.058
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	87
Total Capacity of Distribution Transformers	MVA	16.226
Total Number of Energy Import Points for the Project Area	Numbers	5
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	31.56
Estimated Peak Demand	MW	7.46
Estimated Average Demand	MW	6.3
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.			0	0	3240	10359	292	13891
LT Commercial	No.			0	0	296	3280	61	3637
LT Industry	No.			0	0	72	63	0	135
LT Agriculture	No.			0	0	0	0	15	15
LT Others	No.			0	0	0	132	21	153
HT Railways	No.			0	0	1	0	0	1
HT Industrial	No.			0	0	0	0	0	0
HT Commercial	No.			0	0	0	0	0	0
HT Others	No.			0	0	0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.				0	0	0	0	0
33 kV Feeder at 33/11 kV SS	No.				0	0	0	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.				0	0	0	0	0
Export Points at 33kV feeders	No.				0	0	0	0	0
11 kV feeders at 33/11 kV SS	No.				0	0	0	2	2
Import Points at 11kV feeders	No.				0	5	0	5	10
Export Points at 11kV feeders	No.				0	2	0	2	4
Distribution Transformers	No.				0	0	0	87	87



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points at LT feeders	No.				0	0	0	0	0
Export Points at LT feeders	No.				0	3	0	0	3

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	1		oracle	
LT					
GIS Based					
Non-GIS Based	20	17831		oracle	
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based				
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97. Project Area Name :Tiruttani (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9722	0	11.5497		11.5497	24305	2.9	2.7
LT Commercial	2614	0	7.1519		7.1519	9149	3.2	3.1
LT Industry	176	0	1.584		1.584	8800	0.9	0.8
LT Agriculture	2	113	0.0255		0.0255	7.5	0	0
LT Others	191	0	1.06578		1.06578	143.3	0.4	0.4
HT Railways	0	0	0		0	0	0	0
HT Industrial	0	0	0		0	0	0	0
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	12705	113	21.38	2.59	23.9669	42404.8	7.4	7.00

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number 110/33 kV Feeders	Numbers	1
Total Length of 110/33 kV Feeders (Overhead)	kM	13.32
Total Length of 110/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	17.44
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	47.88
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	67
Total Capacity of Distribution Transformers	MVA	14176
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	19.08
Peak Demand	MW	5.72
Average Demand	MW	4.86
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	20.99



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Estimated Peak Demand	MW	6.29
Estimated Average Demand	MW	5.35
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.			0	0	0	9722	0	9722
LT Commercial	No.			0	0	0	2614	0	2614
LT Industry	No.			0	0	0	176	0	176
LT Agriculture	No.			0	0	0	2	113	115
LT Others	No.			0	0	0	191	0	191
HT Railways	No.			0	0	0	0	0	0
HT Industrial	No.			0	0	0	0	0	0
HT Commercial	No.			0	0	0	0	0	0
HT Others	No.			0	0	0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.				0	0	0	0	0
33 kV Feeder at 33/11 kV SS	No.				0	0	0	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.				0	0	0	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at 33kV feeders	No.				0	0	0	0	0
11 kV feeders at 33/11 kV SS	No.				0	0	0	2	2
Import Points at 11kV feeders	No.				0	1	0	1	2
Export Points at 11kV feeders	No.				0	1	0	1	2
Distribution Transformers	No.				0	0	0	67	67
Import Points at LT feeders	No.				0	0	0	0	0
Export Points at LT feeders	No.				0	0	0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	0		oracle	
LT					
GIS Based					
Non-GIS Based	20	12705		oracle	
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

98. Project Area Name : Vaniyambadi (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	14056	0	10.66		10.66	18067	1.6	1.58
LT Commercial	3865	0	5.59		5.59	3127	3.896	3.83
LT Industry	279	0	3.721		3.721	8980	4.901	4.892
LT Agriculture	0	37	0	0.04	0.036	138	0	0
LT Others	321	0	1.533		1.533	678	0.6	0.598
HT Railways	0	0	0		0	0	0	0
HT Industrial	3	0	13.81		13.81	388.5	7.739	7.739
HT Commercial	1	0	2.8		2.8	56.7	1.726	1.726
HT Others	0	0	0		0	0	0	0
Total	18525	37	38.114	0.04	38.15	31435.2	20.462	20.365



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 66/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	4
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	39.2
Total Length of 11 kV Feeders (Under-ground)	kM	0.8
Total Length of LT Lines (Overhead)	kM	185.26
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	128
Total Capacity of Distribution Transformers	MVA	33.626
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	0
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	53.707
Estimated Peak Demand	MW	21.55
Estimated Average Demand	MW	19.55
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				2362	11694	0	14056	
LT Commercial	No.				694	3171	0	3865	
LT Industry	No.				200	67	0	267	
LT Agriculture	No.				0	0	37	37	
LT Others	No.				85	236	0	321	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				3	0	0	3	
HT Commercial	No.				1	0	0	1	
HT Others	No.				0	0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					0		4	4
Import Points at 11kV feeders	No.					0		1	1
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					0	0	128	128
Import Points at LT feeders	No.					0		258	258
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100	4			
LT					
GIS Based					
Non-GIS Based	15	1500			
Asset Mapping					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

99. Project Area Name : Vellore (VLR)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	47777	0	396.12		396.12	107500	7.8	7.8
LT Commercial	15093	0	304.8		304.8	36220	5.2	5.2
LT Industry	755	0	208.32		208.32	12200	4.8	4.8
LT Agriculture	0	46	0		0	206	0	0
LT Others	952	0	236.4		236.4	11780	4.2	4.2
HT Railways	0	0	0		0	0	0	0
HT Industrial	6	0	101.12		101.12	1800	6.8	6.8
HT Commercial	5	0	88.2		88.2	1230	5.5	5.5



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Others	6	0	112.4		112.4	4700	3.6	3.6
Total	64594	46	1447.36	1.60	1449	175636	37.9	37.9

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	3
Total Capacity of Power Transformers	MVA	48
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	5
Total Number 11 kV Feeders	Numbers	14
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	43.15
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	312.78
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	259
Total Capacity of Distribution Transformers	MVA	64.352
Total Number of Energy Import Points for the Project Area	Numbers	0
Number of Metered Energy Import Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	184.49
Estimated Peak Demand	MW	98
Estimated Average Demand	MW	87
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					56	47721	0	47777
LT Commercial	No.					1056	14037	0	15093
LT Industry	No.					286	469	0	755
LT Agriculture	No.					0	0	46	46
LT Others	No.					19	933	0	952
HT Railways	No.					0	0	0	0
HT Industrial	No.					6	0	0	6



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Commercial	No.				5	0	0	5
HT Others	No.				6	0	0	6
Assets								
Import Points above 33kV level	No.			0	0	0	0	0
Export Points above 33kV level	No.				0	0	0	0
33 kV Feeder at 33/11 kV SS	No.				1	0	0	1
Import Points at 33kV feeders other than 33/11 kV SS	No.				0	0	0	0
Export Points at 33kV feeders	No.				0	0	0	0
11 kV feeders at 33/11 kV SS	No.				0	0	14	14
Import Points at 11kV feeders	No.				0	0	0	0
Export Points at 11kV feeders	No.				0	0	5	5
Distribution Transformers	No.				0	0	259	259
Import Points at LT feeders	No.				0	0	780	780
Export Points at LT feeders	No.				0	0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

VILLUPURAM

100. Project Area Name: Arni (VPM)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	13792	0	15.7		15.7	22210	2.32	2.2736
LT Commercial	4757	0	4.17		4.17	8182	2.6	2.548
LT Industry	680	0	4.48		4.48	10193	1.06	1.06
LT Agriculture	0	0	0		0			0
LT Others	475	0	1.25		1.25	996	0.4	0.392



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Railways		0	0		0		0	0
HT Industrial		0	0		0		0	0
HT Commercial		0	0		0	0	0	0
HT Others		0	0		0	0	0	0
Total	19704	0	25.6	5.90	31.5	41581	6.38	6.2736

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	76
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	0
Total Length of 11 kV Feeders (Overhead)	kM	23
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	120
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	85
Total Capacity of Distribution Transformers	MVA	16.15



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	33
Estimated Peak Demand	MW	11.5
Estimated Average Demand	MW	
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					50	13742	0	13792
LT Commercial	No.					90	4667	0	4757



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Industry	No.					680	0	0	680
LT Agriculture	No.					0	0	0	0
LT Others	No.					10	465	0	475
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					2		0	2
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		5	5
Distribution Transformers	No.					0		85	85
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT								
GIS Based								
Non-GIS Based	0							
LT								
GIS Based								
Non-GIS Based	0							
Asset Mapping								
66 kV System								
GIS Based								
Non-GIS Based								
33 kV System								
GIS Based								
Non-GIS Based								
11 kV System								
GIS Based								
Non-GIS Based								
LT System								
GIS Based								
Non-GIS Based								

101. Project Area Name : Chidambaram (VPM)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Domestic	13830	0	20.1		20.1	21645	2.65	2.23
LT Commercial	3741	0	7.73		7.73	8204	3.92	3.44
LT Industry	136	0	0.24		0.24	1093	0.19	0.15
LT Agriculture	0	0	0		0	0	0	0
LT Others	718	0	1.41		1.41	795	0.68	0.6
HT Railways	0	0	0		0	0	0	0
HT Industrial	1	0	2.57		2.57	563	1.01	1.01
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	18426	0	32.05	11.12	43.17	32300	8.45	7.43

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	3
Total Length of 11 kV Feeders (Overhead)	kM	19.45



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	77.6
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	69
Total Capacity of Distribution Transformers	MVA	18.05
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	2
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	43.17
Estimated Peak Demand	MW	8.8
Estimated Average Demand	MW	4.4
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					0	13830	0	13830
LT Commercial	No.					0	3741	0	3741
LT Industry	No.					13	123	0	136
LT Agriculture	No.					0	0	0	0
LT Others	No.					0	718	0	718
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	1	0	1
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0	0	0	0
33 kV Feeder at 33/11 kV SS	No.					0	0	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0	0	0	0
Export Points at 33kV feeders	No.					0	0	0	0
11 kV feeders at 33/11 kV SS	No.					3	0	0	3
Import Points at 11kV feeders	No.					0	0	1	1
Export Points at 11kV feeders	No.					0	0	2	2
Distribution Transformers	No.					8	0	61	69
Import Points at LT feeders	No.					0	0	0	0
Export Points at LT feeders	No.					0	0	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

102. Project Area Name: Cuddalore (VPM)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	49194	0	71.47		71.47	58290.4	22.86	22.66
LT Commercial	9970	0	8.712		8.712	14689.2	17.989	17.889
LT Industry	624	0	0.814		0.814	10847.26	5.339	5.339
LT Agriculture	21	632	0		0	1499	0	
LT Others	1119	0	2.798		2.798	3255	4.955	4.955
HT Railways	0	0			0	0	0	
HT Industrial	0	0			0	0	0	
HT Commercial	4	0	2.03		2.03	473.4	0.71	0.71
HT Others	0	0	0		0	0	0	
Total	60932	632	85.824	22.62	108.444	89054.26	51.853	51.553

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	200
Total Number 110/33 kV Feeders	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV /33 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	4
Total Capacity of Power Transformers	MVA	64
Total Number 22 kV Feeders	Numbers	5
Number of Metered 22 kV Feeders	Numbers	0
Total Length of 22 kV Feeders (Overhead)	kM	91.878
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	967.28
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	358
Total Capacity of Distribution Transformers	MVA	56.867
Total Number of Energy Import Points for the Project Area	Numbers	4
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Estimated Annual (T-1) Energy Input	MUs	108.44
Estimated Peak Demand	MW	19.77
Estimated Average Demand	MW	12.52
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					1557	47637	0	49194
LT Commercial	No.					542	9428	0	9970
LT Industry	No.					293	331	0	624
LT Agriculture	No.					0	21	632	653
LT Others	No.					158	961	0	1119
HT Railways	No.					0	0	0	0
HT Industrial	No.					0	0	0	0
HT Commercial	No.					4	0	0	4
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					5			5
Import Points at 11kV feeders	No.					0		5	5
Export Points at 11kV feeders	No.					0		11	11
Distribution Transformers	No.					13		345	358
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

103. Project Area Name : Kallakkurichi (VPM)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	13027		13.824		13.82	3643.52	1.99	1.99
LT Commercial	3834		4.489		4.489	1536.45	2.83	2.83
LT Industry	207		0.922		0.922	3056.25	0.42	0.42
LT Agriculture	0	509	0	8.460	8.46	1898.57	0.00	0.00
LT Others	314	0	1.421		1.421	45.51	0.52	0.48
HT Railways	0				0		0.00	0.00
HT Industrial	3		4.1438		4.144	1428.708	2.99	2.99
HT Commercial					0		0.00	0.00
HT Others					0		0.00	0.00
Total	17385	509	24.7998	8.46	33.26	11609.01	8.75	8.71

Assets**	Project Area
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV Sub-stations feeding the Project Area	Numbers	3
Total Number of Power Transformers	Numbers	6
Total Capacity of Power Transformers	MVA	96
Total Number 22 kV Feeders	Numbers	4
Number of Metered 22 kV Feeders	Numbers	0
Total Length of 22 kV Feeders (Overhead)	kM	11.63
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	102.21
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	94
Total Capacity of Distribution Transformers	MVA	18.427
Total Number of Energy Import Points for the Project Area	Numbers	8
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	0
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	29.12
Estimated Peak Demand	MW	9.13
Estimated Average Demand	MW	8.9
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	13027	0	13027	
LT Commercial	No.				0	3834	0	3834	
LT Industry	No.				24	183	0	207	
LT Agriculture	No.				0	0	509	509	
LT Others	No.				0	314	0	314	
HT Railways	No.				0			0	
HT Industrial	No.				3	0	0	3	
HT Commercial	No.							0	
HT Others	No.							0	
Assets									
Import Points above 33kV level	No.				0	0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points above 33kV level	No.						0	0	0
33 kV Feeder at 33/11 kV SS	No.						0	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.						0	0	0
Export Points at 33kV feeders	No.						0	0	0
11 kV feeders at 33/11 kV SS	No.						4	0	4
Import Points at 11kV feeders	No.						0	8	8
Export Points at 11kV feeders	No.						0		
Distribution Transformers	No.					75	0	19	94
Import Points at LT feeders	No.						0	0	0
Export Points at LT feeders	No.						0	0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based				
Non-GIS Based				
11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

104. Project Area name : Nellikuppam (VPM)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	6488	0	3.968		3.968	4695.34	0.76	0.692
LT Commercial	1173	0	3.472		3.472	1205.14	0.665	0.606
LT Industry	61	0	1.984		1.984	953.25	0.38	0.346
LT Agriculture	0	66	0	0.65	0.652	300.26	0	0
LT Others	171	0	0.496		0.496	384.35	0.095	0.087
HT Railways	0	0	0		0	0	0	0
HT Industrial	1	0	3.05		3.05	720.00	1.22	1.22
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	7894	66	12.97	2.85	15.82	8258.34	3.12	2.951



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	32
Total Number 22 kV Feeders	Numbers	1
Number of Metered 22 kV Feeders	Numbers	1
Total Length of 22 kV Feeders (Overhead)	kM	11.14
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	73.55
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	43
Total Capacity of Distribution Transformers	MVA	6.65
Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	1
Number of Metered Energy Export Points for the Project Area	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	15.82
Estimated Peak Demand	MW	3.08
Estimated Average Demand	MW	2.4
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					6488	0	6488	
LT Commercial	No.					1173	0	1173	
LT Industry	No.				4	57	0	61	
LT Agriculture	No.					0	66	66	
LT Others	No.					171	0	171	
HT Railways	No.					0	0	0	
HT Industrial	No.				1	0	0	1	
HT Commercial	No.					0	0	0	
HT Others	No.					0	0	0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					1		0	1
Import Points at 11kV feeders	No.					0		1	1
Export Points at 11kV feeders	No.					0		1	1
Distribution Transformers	No.					10		33	43
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

105. Project Area Name : Panruti (VPM)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	12999	0	36.9		36.9	16571	1.1	0.96
LT Commercial	3860	0	4.39		4.39	4632	1.95	1.93
LT Industry	316	0	7.18		7.18	3160	2.46	2.45
LT Agriculture	0	265	0		0	1325	0	0
LT Others	371	0	0.89		0.89	742	0.26	0.25
HT Railways	0	0	0		0	0	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Industrial	1	0	0.14		0.14	90	0.07	0.07
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	17547	265	49.5	11.78	61.28	26520	5.84	5.66

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	20
Total Number 22 kV Feeders	Numbers	5
Number of Metered 22 kV Feeders	Numbers	5
Total Length of 22 kV Feeders (Overhead)	kM	44.11
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	451.5
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	145
Total Capacity of Distribution Transformers	MVA	20.763



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Energy Import Points for the Project Area	Numbers	1
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	4
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	61.28
Estimated Peak Demand	MW	18.82
Estimated Average Demand	MW	16.29
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	12999	0	12999	
LT Commercial	No.				10	3850	0	3860	
LT Industry	No.				80	236	0	316	
LT Agriculture	No.				0	0	265	265	
LT Others	No.				0	371	0	371	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

HT Railways	No.					0	0	0	0
HT Industrial	No.					1	0	0	1
HT Commercial	No.					0	0	0	0
HT Others	No.					0	0	0	0
Assets									
Import Points above 33kV level	No.				0	1	0	0	1
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					1		4	5
Import Points at 11kV feeders	No.					0		1	1
Export Points at 11kV feeders	No.					0		4	4
Distribution Transformers	No.					145		0	145
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

106. Project Area Name: Tindivanam (VPM)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	15254		18.463		18.463	8593	2.598	2.9
LT Commercial	4088		7.121		7.121	2500	2.999	3



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

LT Industry	300		1.256		1.256	4340	0.589	0.73
LT Agriculture		492		9.66	9.660	1253		
LT Others	422		1.126		1.126	516	0.411	0.35
HT Railways								
HT Industrial								
HT Commercial								
HT Others								
Total	20064	492	27.966	9.66	37.626	17202	6.597	6.98

Assets**		Tindivanam
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	1
Total Capacity of Power Transformers	MVA	10
Total Number 11 kV Feeders	Numbers	3
Number of Metered 11 kV Feeders	Numbers	3
Total Length of 11 kV Feeders (Overhead)	kM	20.591
Total Length of 11 kV Feeders (Under-ground)	kM	2.51



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of LT Lines (Overhead)	kM	136.63
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	118
Total Capacity of Distribution Transformers	MVA	27.75
Total Number of Energy Import Points for the Project Area	Numbers	
Number of Metered Energy Import Points for the Project Area	Numbers	
Total Number of Energy Import/Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	37.62
Estimated Peak Demand	MW	5.52
Estimated Average Demand	MW	5.21
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
	GSM/ GPRS/ EDGE	CDMA	LPR/Others					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Consumers								
LT Domestic	No.					880	14374	15254
LT Commercial	No.					89	3999	4088
LT Industry	No.					77	223	300
LT Agriculture	No.						492	492
LT Others	No.						422	422
HT Railways	No.							0
HT Industrial	No.							0
HT Commercial	No.							0
HT Others	No.							0
Assets								
Import Points above 33kV level	No.							0
Export Points above 33kV level	No.							0
33 kV Feeder at 33/11 kV SS	No.							0
Import Points at 33kV feeders other than 33/11 kV SS	No.							0
Export Points at 33kV feeders	No.							0
11 kV feeders at 33/11 kV SS	No.					3		3
Import Points at 11kV feeders	No.						3	3
Export Points at 11kV feeders	No.							0
Distribution Transformers	No.					108	10	118
Import Points at LT feeders	No.							0
Export Points at LT feeders	No.							0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/assets covered (e.g. HT, LT, poles, lines,
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

107. Project Area Name : Tiruvannamalai (VPM)



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	32321	0	27.5		27.5	36500	5.77	5.7123
LT Commercial	9770	0	9.2		9.2	14250	6.91	6.841
LT Industry	649	0	3.47		3.47	9000	1.25	1.2375
LT Agriculture	0	0	0		0	0	0	0
LT Others	826	0	3.88		3.88	2200	2.08	2.0592
HT Railways	0	0	0		0	0	0	0
HT Industrial	1	0	1.1		1.1	75	0.72	0.72
HT Commercial	0	0	0		0	0	0	0
HT Others	1	0	0.85		0.85	850	1.2	1.2
Total	43568	0	46	10.01	56.01	62875	17.93	17.77

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	4
Total Number of Power Transformers	Numbers	6



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Capacity of Power Transformers	MVA	105
Total Number 11 kV Feeders	Numbers	9
Number of Metered 11 kV Feeders	Numbers	9
Total Length of 11 kV Feeders (Overhead)	kM	52.78
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	358.95
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	243
Total Capacity of Distribution Transformers	MVA	50.68
Total Number of Energy Import Points for the Project Area	Numbers	7
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	0
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	56.01
Estimated Peak Demand	MW	22.8
Estimated Average Demand	MW	19.2
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area	Metered with AMR Meters	Metered with AMR Compatible	Metered with Static	Metered with Electro-	Unmetered	Total
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TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

					Meters	Meters	magnetic Meters & Others		
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					0	32321	0	32321
LT Commercial	No.					200	9570	0	9770
LT Industry	No.					500	149	0	649
LT Agriculture	No.					0	0	0	0
LT Others	No.					20	806	0	826
HT Railways	No.					0	0	0	0
HT Industrial	No.					1	0	0	1
HT Commercial	No.					0	0	0	0
HT Others	No.					1	0	0	1
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					2		0	2
Import Points at 11kV feeders	No.					0		7	7
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					0		243	243
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

108. Project area Name: Tiruvettipuram (VPM)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	9740	0	10.2		10.2	5090	1.45	1.4355
LT Commercial	2367	0	2.2		2.2	1502	1.5	1.485
LT Industry	274	0	2		2	3008.2	0.45	0.4455
LT Agriculture	0	171	0		0	400	0	0
LT Others	182	0	1.5		1.5	500.12	0.35	0.3465
HT Railways	0	0	0		0	0	0	0
HT Industrial	1	0	0.25		0.25	135	1.44	1.44
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	12564	171	16.15	3.96	20.11	10635.32	5.19	5.1525

Assets**		Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers	0
Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 110/33 kV Feeders	Numbers	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	16
Total Number 11 kV Feeders	Numbers	2
Number of Metered 11 kV Feeders	Numbers	2
Total Length of 11 kV Feeders (Overhead)	kM	28.28
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	140
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	96
Total Capacity of Distribution Transformers	MVA	17.37
Total Number of Energy Import Points for the Project Area	Numbers	0
Number of Metered Energy Import Points for the Project Area	Numbers	0
Total Number of Energy Export Points for the Project Area	Numbers	0
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		0
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	15.28
Average Demand	MW	14.82
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Estimated Peak Demand	MW	15.28
Estimated Average Demand	MW	14.82
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.				0	9740	0	9740	
LT Commercial	No.				0	2367	0	2367	
LT Industry	No.				41	233	0	274	
LT Agriculture	No.				0	0	171	171	
LT Others	No.				0	182	0	182	
HT Railways	No.				0	0	0	0	
HT Industrial	No.				1	0	0	1	
HT Commercial	No.				0	0	0	0	
HT Others	No.				0	0	0	0	
Assets									
Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.				0	0	0	0	0
33 kV Feeder at 33/11 kV SS	No.				0	0	0	0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.				0	0	0	0	0
Export Points at 33kV feeders	No.				0	0	0	0	0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

11 kV feeders at 33/11 kV SS	No.					2		0	2
Import Points at 11kV feeders	No.					0		0	0
Export Points at 11kV feeders	No.					0		0	0
Distribution Transformers	No.					0		96	96
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

109. Project Area Name :Villupuram (VPM)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	25078	0	60.999	0	60.999	19941.000	9.257	9.257
LT Commercial	7722	0	29.271	0	29.271	12005.000	18.117	18.117
LT Industry	434	0	3.236	0	3.236	5699.000	1.501	1.501
LT Agriculture	0	112	0.000	0.00	2.71	626.640	0.000	0.000
LT Others	524	0	2.897	0	2.897	1550.000	1.173	0.969
HT Railways	1	0	1.875	0	1.875	360.000	0.935	0.935
HT Industrial	2	0	0.348	0	0.348	815.620	0.224	0.224
HT Commercial	1	0	0.074	0	0.074	135.000	0.441	0.441
HT Others	0	0	0.000	0	0.000	0.000	0.000	0.000
Total	33762	112	98.6993	21.86	120.56	41132.26	31.648	31.4437

Assets**	Project Area
Total Number of EHV Sub-stations feeding the Project Area	Numbers 0



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Number of Power Transformers	Numbers	0
Total Capacity of Power Transformers	MVA	0
Total Number 110/33 kV Feeders	Numbers	0
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/22 kV Sub-stations feeding the Project Area	Numbers	1
Total Number of Power Transformers	Numbers	2
Total Capacity of Power Transformers	MVA	50
Total Number 22 kV Feeders	Numbers	5
Number of Metered 22 kV Feeders	Numbers	5
Total Length of 22 kV Feeders (Overhead)	kM	34.89
Total Length of 22 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	142.24
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	138
Total Capacity of Distribution Transformers	MVA	28.35
Total Number of Energy Import Points for the Project Area	Numbers	
Number of Metered Energy Import Points for the Project Area	Numbers	
Total Number of Energy Export Points for the Project Area	Numbers	3
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		
Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	120.56
Estimated Peak Demand	MW	21.259
Estimated Average Demand	MW	19.324
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/GPRS/EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					25078		25078	
LT Commercial	No.					7722		7722	
LT Industry	No.				19	415		434	
LT Agriculture	No.					0	112	112	
LT Others	No.					524		524	
HT Railways	No.				1	0		1	
HT Industrial	No.				2	0		2	
HT Commercial	No.				1	0		1	
HT Others	No.				0	0		0	
Assets									
Import Points above 33kV level	No.							0	
Export Points above 33kV level	No.							0	
33 kV Feeder at 33/11 kV SS	No.							0	
Import Points at 33kV feeders other than 33/11 kV SS	No.							0	



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Export Points at 33kV feeders	No.							0
11 kV feeders at 33/11 kV SS	No.				5			5
Import Points at 11kV feeders	No.						3	3
Export Points at 11kV feeders	No.							
Distribution Transformers	No.				103		35	138
Import Points at LT feeders	No.							0
Export Points at LT feeders	No.							0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	100				
LT					
GIS Based					
Non-GIS Based	10				
Asset Mapping					
66 kV System					
GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

11 kV System				
GIS Based				
Non-GIS Based				
LT System				
GIS Based				
Non-GIS Based				

110. Project Area Name: Vridhachalam (VPM)

Project Area Consumer Information (Last Financial Year)	Number of Metered Consumers	Estimated Number of Unmetered Consumers	Metered Sales	Assessed Energy Sales	Total Sales	Connected Load	Billing	Collection
	No.	No.	MUs	MUs	MUs	kW	Rs. Cr.	Rs. Cr.
LT Domestic	25193	0	20.5		20.5	35966.76	4.67	4.5
LT Commercial	5661	0	10.28		10.28	9022	4.78	4.65
LT Industry	586	0	0.36		0.36	9500	0.92	0.92
LT Agriculture	0	70	0.51		0.51	505	0	0
LT Others	600	0	2.31		2.31	2120	1.81	1.71
HT Railways	1	0	0.5		0.5	144	0.6	0.6
HT Industrial	6	0	2.27		2.27	696	1.98	1.98
HT Commercial	0	0	0		0	0	0	0
HT Others	0	0	0		0	0	0	0
Total	32047	70	36.73	8.07	44.8	57953.76	14.76	14.36



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Assets**		Vridhachalam
Total Number of EHV Sub-stations feeding the Project Area	Numbers	
Total Number of Power Transformers	Numbers	
Total Capacity of Power Transformers	MVA	
Total Number 110/33 kV Feeders	Numbers	3
Total Length of 66/33 kV Feeders (Overhead)	kM	0
Total Length of 66/33 kV Feeders (Under-ground)	kM	0
Total Number of 110/11 kV and 33/11 kV Sub-stations feeding the Project Area	Numbers	2
Total Number of Power Transformers	Numbers	5
Total Capacity of Power Transformers	MVA	72
Total Number 11 kV Feeders	Numbers	8
Number of Metered 11 kV Feeders	Numbers	8
Total Length of 11 kV Feeders (Overhead)	kM	125.78
Total Length of 11 kV Feeders (Under-ground)	kM	0
Total Length of LT Lines (Overhead)	kM	351.6
Total Length of LT Lines (Under-ground)	kM	0
Total Number of Distribution Transformers	Numbers	99
Total Capacity of Distribution Transformers	MVA	25.36
Total Number of Energy Import Points for the Project Area	Numbers	2
Number of Metered Energy Import Points for the Project Area	Numbers	
Total Number of Energy Export Points for the Project Area	Numbers	5
Number of Metered Energy Export Points for the Project Area	Numbers	0
If 100% Energy Import/Export Points are Metered then,		



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Total Annual (T-1) Energy Input	MUs	
Peak Demand	MW	
Average Demand	MW	
If 100% Energy Import/Export Points are not Metered then,		
Estimated Annual (T-1) Energy Input	MUs	44.8
Estimated Peak Demand	MW	7.58
Estimated Average Demand	MW	6.14
Time Required to ring-fence the Project Area & Meter all the Energy Import/Export Points	Days	90

Project Area		Metered with AMR Meters			Metered with AMR Compatible Meters	Metered with Static Meters	Metered with Electro-magnetic Meters & Others	Unmetered	Total
		GSM/ GPRS/ EDGE	CDMA	LPR/Others					
Consumers									
LT Domestic	No.					6488	0	6488	
LT Commercial	No.					1173	0	1173	
LT Industry	No.				4	57	0	61	
LT Agriculture	No.					0	66	66	
LT Others	No.					171	0	171	
HT Railways	No.					0	0	0	
HT Industrial	No.				1	0	0	1	
HT Commercial	No.					0	0	0	
HT Others	No.					0	0	0	
Assets									



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

Import Points above 33kV level	No.				0	0	0	0	0
Export Points above 33kV level	No.					0		0	0
33 kV Feeder at 33/11 kV SS	No.					0		0	0
Import Points at 33kV feeders other than 33/11 kV SS	No.					0		0	0
Export Points at 33kV feeders	No.					0		0	0
11 kV feeders at 33/11 kV SS	No.					1		0	1
Import Points at 11kV feeders	No.					0		1	1
Export Points at 11kV feeders	No.					0		1	1
Distribution Transformers	No.					10		33	43
Import Points at LT feeders	No.					0		0	0
Export Points at LT feeders	No.					0		0	0

Project Area Consumer indexing and Asset Mapping	% of Indexing completed	Number of Consumers Covered	Date of survey completed	Specify File, Formats of the Output (e.g. XML, CSV etc.)	Specify consumers/ assets covered (e.g. HT, LT, poles, lines, switches etc.)
	%	No.	Date		
Consumer Indexing					
HT					
GIS Based					
Non-GIS Based	0				
LT					
GIS Based					
Non-GIS Based	0				
Asset Mapping					
66 kV System					



TAMIL NADU ELECTRICITY BOARD
RFP DOCUMENT FOR APPOINTMENT OF IT IMPLEMENTATION AGENCY

GIS Based					
Non-GIS Based					
33 kV System					
GIS Based					
Non-GIS Based					
11 kV System					
GIS Based					
Non-GIS Based					
LT System					
GIS Based					
Non-GIS Based					

