

Tender Notification

Implementation of Smart Metering Solution in AEML distribution area For 7,00,000 Consumers



NIT NO: AEML/MDB/2020-21/62

Due Date for Submission: 14/09/2020 – Up to 16:00 Hours

Table of Contents

Section- I: Information for Bidder (IFB).....	5
1. Name of the Work:.....	5
2. Event Information.....	5
3. Eligibility Criteria & Qualification Criteria	7
Section-II: Instructions to Bidders (ITB).....	11
Section-III: Scope of Work.....	22
1. Introduction	22
2. Background:	22
3. Solution Requirement:.....	23
4. Bill of Quantity (BOQ).....	26
Section-IV: Technical Specifications.....	29
1. RF Communication Canopy Network	29
2. Smart Meters	29
3. Group Smart Meter Cabin	29
4. MCB Specification.....	29
5. ITC of Group Smart Meter Cabin & Standalone meter reboardwiring -.....	29
6. RF Canopy-Field Installation Work Requirement	29
7. Field Management System (FMS)	30
8. IT Infrastructure & maintenance	30
Section-V: Project Management, FMS, IT Maintenance, Change Management	31
1. Project Management	31
2. FMS (Facility Management Services)	32
3. IT Infra maintenance	34
4. Change Management.....	34
5. Inspection and Testing.....	35
Section-VI: Project Delivery Schedule	36
Section-VII: Terms & Conditions of Contract.....	38
Section-VIII: Service Level Agreement (Mandatory & Non-negotiable)	39
Section-IX: BID FORMS.....	40
ANNEXURES.....	50

Abbreviations

Acronyms	Description
AEML	Adani Electricity Mumbai Limited
MSP	Managed Service Provider
AMI	Automatic Metering Infrastructure
HES	Head End System
MDM	Meter Data Management
CSP	Cloud Service Provider
DC	Data Centre
SQL	Structured Query Language
VM	Virtual Machine
ISO	International Organization for Standardization
SLA	Service Level Agreement
RFP	Request for Proposal
DSC	Digital Signature Certificate
PBG	Performance Bank Guarantee
QP	Quarterly Payment
SRS	System Requirements Specification
GST	Goods & Service Tax
DR	Disaster Recovery
Mb	Megabyte (1 MB = 1024 Kilobytes)
MIS	Management Information System
NAS	Network Attached Storage
RPO	Recovery Point Objective

RTO	Recover Time Objective
SAN	Storage Area Network
ILL	Internet Leased Line

Section- I: Information for Bidder (IFB)

1. Name of the Work:

- 1.1 To implement the AMI solution for 7 lakh East Zone meters to Smart Group Metering by Supplying, Installation, testing, commissioning and training of RF Communication Canopy Network Elements, RF Nodes, Group Smart Meters, Group Smart Meter Cabin & FMS, Head End System (HES), Meter Data Management System (MDMS), Customer Portal and its integrations with existing AEML systems along with IT Infrastructure on Cloud and AMC. Bidder should maintain the entire solution for the period of 10 years with no impact on performance and it should be scalable up to 30 lakhs.

2. Event Information

- 2.1 Adani Electricity Mumbai Ltd herein referred to as AEML invites Electronic-bid (E-bid) from interested bidders for the aforesaid work(s) under Single-stage Three-envelope Bidding Process THROUGH E-TENDERING*. For details about the IFB, please refer to the details that follow.
- 2.2 Any amendment(s)/corrigendum/clarification(s) with respect to this Tender shall be uploaded on the E-Procurement website only. The bidders should keep themselves updated by regularly visiting the E-Procurement website of AEML for any amendment/corrigendum/ clarification in regard to this Tender.
- 2.3 The bids for E-tenders will be submitted online on the web site <https://www.adanielectricity.com/en/Tenders>. Oral, telephonic, telegraphic bids or those submitted in hard copies/physical form will not be entertained. In case, anything to the contrary is mentioned anywhere in the Tender, the same should be ignored.
- 2.4 Bid Details

NIT/Bid Document No	AEML/MDB/2020-21/62
Bidding Document Cost	Rs. 1,180/- (Rupees One Thousand one eighty only) (non-refundable & non-adjustable).
Earnest Money Deposit (EMD)/ Bid Security	Rs. 2,50,00,000/- (Rupees Two Crore Fifty Lakhs only) (refundable without interest) (EMD, only in the form of Bank Guarantee, to be valid up to 240 days from the date of techno-commercial bid opening).
Contract Performance Bank Guarantee (CPBG)	10% of the Contract value valid for warranty period + 3 months of claim period.
Last date & time for downloading RFP from website	14/09/2020 (up to 16:00 hours IST).
Last date & time for Online Bid Submission	14/09/2020 (up to 16:00 hours IST).

Pre-bid Meeting Date & time	On 24/08/2020, 11:30 Hours. The pre-bid meeting will be conducted electronically/ telephonically due to COVID19.
Bid Validity Duration	240 days from the date of opening of techno-commercial bid.
Bid Documents in this Tender	Information For Bidders (IFB) Instruction to Bidders General Conditions of Contract (GCC). and Special Conditions of Contract (SCC). Introduction, Scope of Work Eligibility and Qualification Criteria Technical Specifications Forms
Contact Person(s) for Technical Queries.	Ms. Deepali Patil Senior Manager E-mail ID : Deepali.R.Patil@Adani.com
Contact Person(s) for Commercial Queries.	Ms. Arpita Basu Dy. General Manager Email-ID: arpita.a.basu@adani.com Mr. Shekhar Potdar Asst. Vice President (CPG) Email-ID: shekhar.potdar@adani.com
RFP to be addressed to	Mr. Rohit Agrawal Sr. Vice President (CPG) Adani Electricity Mumbai Ltd, Devidas Lane, near telephone exchange, Off SVP road, Borivali West, Mumbai 400103

Note: May please note that all technical queries should be sent in a consolidated manner in one or maximum two emails. All bidders are requested to collate all queries preferably in a single document and not send unnecessary & frequent emails.

- 2.5 All the bids must be accompanied by the Bidding Document Cost and the EMD, as mentioned above. Bids not accompanying the Bidding Document Cost and EMD, or those accompanied by these instruments of inadequate value, shall not be entertained and in such cases, the bids shall not be opened.
- 2.6 The BG shall be from any Indian Nationalized Bank/other scheduled Private banks/International banks, In case of international bidder(s), the BG could be from any such International bank having a branch in India or an Indian Nationalized bank having a branch in the country of origin of the

international bidder(s) mentioned. The International Bidders are also required to enclose with their EMD BG a letter of BG confirmation from a corresponding Indian bank.

- 2.7 The details of the instruments of Bidding Document Cost and the EMD (DD/BG, etc. as applicable) have to be entered online in relevant fields/columns of the module while submitting the E-bid. It must be ensured by the bidder that the original instruments towards Bidding Document Cost and EMD are received by AEML before opening time of the techno-commercial bids for verification of the details of the same as given online by the bidder. Failure to comply with this would render the bid liable for rejection and the bid will not be opened online. AEML will not be responsible for any delay, loss or non-receipt of Bidding/RFP Document Cost or EMD sent by post/courier.
- 2.8 AEML reserves the right to cancel / withdraw the tender without assigning any reason whatsoever and in such a case, no bidder / intending bidder shall have any claim arising out of such action.
- 2.9 The subject procurement will be done through e-tendering. The NIT is available on the website <https://www.adanielectricity.com/en/Tenders> or could be viewed after following the link of 'e-Tendering 'on AEML's website's Home Page, i.e., <http://adanielectricity.com> from where the bidders registered with AEML (registration process is explained at the Home Page) will be able to download the Tender documents and submit their bids online. The Tender submission, Tender closing and opening will be done electronically and online.
- 2.10 Steps for Download and Upload of Tender Documents on AEML's E-Procurement Portal.
- 2.11 Digital Signature Certificate: It is mandatory for all the bidders to have class-III Digital Signature Certificate (DSC) with signing and Encryption certificate (in the name of person who will sign the BID) from any of the licensed Certifying Agency (Bidders can see the list of licensed CAs from the link www.cca.gov.in) to participate in e-tendering of AEML.

3. Eligibility Criteria & Qualification Criteria

- 3.1 Apart from the criteria given below, past performance of bidder(s) with AEML, i.e., related to quality, supply, performance, etc. shall be taken into consideration by AEML during bid evaluation.
- 3.2 AEML reserves the right to independently verify the authenticity of the documents submitted/claims made by the bidder(s) and may also ask for presenting the original copy of the submitted document(s). Further, on such verification, if it is found that the bidder(s) has made false claims, submitted forged documents, etc., the bid shall be liable for outright rejection, notwithstanding other rights available under the tendered Terms and Conditions for taking actions against the bidder(s), as deemed fit by AEML.

3.3 The eligibility criteria are mentioned in table below.

S. N	Eligibility Criteria	Documents to be submitted
1	<p>Bidder(s) to be an individual commercial entity.</p> <p>Bidder(s) can form consortium while submitting its proposal.</p> <p>“Consortium” means firms jointly and severally bound to the AEML for the fulfillment of the provisions of the Contract and such firms shall designate one of such firms to act as a lead bidder with authority to bind the consortium. The composition or constitution of the consortium shall not be altered without the prior consent of the Client.</p> <p>The consortium of bidders should not exceed Four inclusive of the Lead Bidder itself.</p> <p>The qualifying requirements can be met either by lead bidder or the consortium partners in totality.</p> <p>In case of consortium, bidder(s) shall</p> <ul style="list-style-type: none"> i) Provide clarity on the roles and responsibility of each consortium member. ii) Enforce that all the members are part of the contractual arrangement between themselves before submitting the bid iii) Submit jointly signed agreement. <p>Bidder may also use the credentials of consortium members or OEMs (which whom it had partnered to execute this project) to meet the “Technical qualification criteria”</p>	<p>Declaration from the bidder(s), whether quoting as a stand-alone firm, or as part of a Consortium, name(s) and number of partners of the Consortium and details of their authorized executives, offices and manufacturing facility addresses, and other details.</p> <p>Declaration Letter Reference No and Date</p> <p>Consortium Agreement (where applicable) to be submitted, clearly delineating the bifurcation of activities / responsibilities/ sourcing between /among the Lead Partner and the other Subordinate Partner(s).</p> <p>Consortium Letter Reference No and Date</p>

The Qualification criteria for the Bidder are mentioned in table below, however additional qualification criteria for the Bidder are mentioned in respective Annexures.

S. N.	Parameter	Applicable for Indian company	Applicable for International company	Document to be provided
Financial Qualification Criteria				
F1	Annual turnover for each last three financial year sending 31 st March 2019 (for Indian bidder) or 31 st December 2019 (for International bidder, if and as applicable). In case of consortium bids, combined turnover of all the consortium partners shall be considered.	INR 400 Cr	USD 55Mn \$	Audited Balance Sheet and certificate from Chartered Accountant.
Technical Qualification Criteria				
T1	Bidder(s) should be in the business of manufacturing and supplying of electricity meters / other electrical instruments/ communication products along with RF canopy & NIC solution / Metering accessories.	For at least 3 years as on tender date.	For at least 5 years as on tender date.	Documentary evidence of Purchase orders / Framework agreements for this duration
T2	Bidder(s) should be in the business of implementation and integration of Smart meter and RF canopy system with back office.	For at least 3 years as on tender date.	For at least 5 years as on tender date.	Documentary evidence of Purchase orders / Framework agreements for this duration
T3	Bidder(s) should have been successfully deployed a minimum of 0.5 million units for AMI in power distribution utilities in India or overseas during the last 5 years.	For at least 3 years as on tender date.	For at least 5 years as on tender date.	Documentary evidence of Purchase orders / Framework agreements for this duration

Note: If the bidding company does not meet the financial qualification as mentioned above, it may use the financial qualification of a company which meets the above financial criteria and undertake to invest in the project.

Section-II: Instructions to Bidders (ITB)

A: GENERAL

1. Adani Electricity Mumbai Limited (AEML) hereinafter referred to as the Purchaser “are desirous of implementing the various Systems Improvement works at their respective licensed area in Mumbai. The Purchaser has now floated this tender for Implementation of Smart Group Metering by Supplying, Installation, Testing, Commissioning and Training of RF Communication Canopy Network Elements, RF Nodes, Group & Standalone Smart Meters, Group Smart Meter Cabin & FMS, Head End System (HES), Meter Data Management System (MDMS), Customer Portal and its integrations with existing AEML systems along with IT Infrastructure on Cloud and AMC. Bidder should maintain the entire solution for the period of 10 years with no impact on performance and it should be scalable up to 30 lakhs.

2. DISCLAIMER

- 2.1 This Document includes statements, which reflect various assumptions, which may or may not be correct. Each Bidder/Bidding Consortium should conduct its own estimation and analysis and should check the accuracy, reliability and completeness of the information in this Document and obtain independent advice from appropriate sources in their own interest.
- 2.2 Neither Purchaser nor its employees will have any liability whatsoever to any Bidder or any other person under the law or contract, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage whatsoever which may arise from or be incurred or suffered in connection with anything contained in this Document, any matter deemed to form part of this document, provision of services and any other information supplied by or on behalf of Purchaser or its employees, or otherwise arising in any way from the selection process for the supply.
- 2.3 Though adequate care has been taken while issuing the Bid document, the Bidder should satisfy itself that Documents are complete in all respects. Intimation of any discrepancy shall be given to this office immediately.
- 2.4 This Document and the information contained herein are Strictly Confidential and are for the use of only the person(s) to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient’s professional advisors).

3. COST OF BIDDING

The Bidder shall bear all cost associated with the preparation and submission of its Bid and Purchaser will in no case be responsible or liable for those costs.

4. BIDDING DOCUMENTS

4.1 The Scope of Work, Bidding Procedures and Contract Terms are described in the Bidding Documents. In addition to the covering letter accompanying Bidding Documents, the Bidding Documents include:

- a. Section –I : Information for Bidders (IFB)
- b. Section –II : Instruction to Bidders (ITB)
- c. Section –III : Scope of Work
- d. Section –IV : Technical Specifications (TS)
- e. Section –V : Project Management, FMS, Change Management
- f. Section –VI : Project Delivery Schedule
- g. Section –VII : Terms & Conditions of Contract
- h. Section –VIII : Bid Forms

4.2 The Bidder is expected to examine the including all Instructions, Forms, Term and Specifications. Failure to furnish all information required by the Bidding documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect will may result in the rejection of the Bid.

5. AMENDMENT OF BIDDING DOCUMENTS

- 5.1 At any time prior to the deadline for submission of Bids, the Purchaser may for any reasons, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by Amendment.
- 5.2 The Amendment shall be part of the Bidding Documents, pursuant to Clause 5.1, and it will be notified in website www.adanielectricity.com and the same will be binding on them .
- 5.3 In order to afford prospective Bidders reasonable time in which to take the Amendment into account in preparing their Bids, the Purchaser may, at its discretion, extend the deadline for the submission of Bids. The same shall be published as a corrigendum in website www.adanielectricity.com
- 5.4 Purchaser shall reserve the rights to following a) extend due date of submission b) modify tender document in part/whole c) cancel the entire tender.
- 5.5 Bidders are requested to visit website regularly for any modification/clarification/corrigendum/addendum of the bid documents.

B. PREPARATION OF BIDS

6. LANGUAGE OF BID

The Bid prepared by the Bidder, and all correspondence and documents relating to the Bid exchanged by the Bidder and the Purchaser, shall be written in the English Language. Any printed literature furnished by the Bidder may be written in another Language, provided that this literature is accompanied by an English translation, in which case, for purposes of interpretation of the Bid, the English translation shall govern.

7. DOCUMENTS COMPRISING THE BID - The Bid prepared and submitted by the Bidder shall comprise the following components:

- a) Bid Form, Price & other Schedules (STRICTLY AS PER FORMAT) and Technical Data Sheets completed in accordance with Technical Specification;
- b) All the Bids must be accompanied with the required EMD as mentioned in the Section-I against each tender.
- c) Tender documents duly stamped and signed on each page by authorized signatory.

8. BID FORM

8.1 The Bidder shall submit Bid Form and the appropriate Price Schedules and Technical Data Sheets duly filled in as per attached specification as per the Bidding Documents.

8.2 EMD

The bidder shall furnish, as part of its bid, an EMD amounting to as specified in the Section-I. The EMD is required to protect the Purchaser against the risk of Bidder's conduct which would warrant the security's forfeiture.

The EMD shall be denominated in the currency of the bid, and shall be in the following form:

- a) Banker's Cheque / Demand Draft / Pay Order drawn in favor of ADANI ELECTRICITY MUMBAI LTD. payable at MUMBAI.
- b) Bank Guarantee valid for One hundred eighty (180) days after due date of submission drawn in favor of ADANI ELECTRICITY MUMBAI Ltd.

Bank details for submission of EMD

Name of the Bank : YES Bank
Address : 102,103, C.G Center, C.G Road, Panchwati, Ahmedabad, Gujrat - 380009
Current A/C No : 000181400010136

IFSC Code : YESB0000007
MICR : 380532002

The EMD may be forfeited in case of:

- a) The Bidder withdraws its bid during the period of specified bid validity or
- b) The case of a successful Bidder, if the Bidder does not
 - i) accept the Purchase Order, or
 - ii) furnish the required performance security BG.

9. BID PRICES

9.1 Bidders shall quote for the entire Scope of Supply with a break-up of prices for individual items. The total Bid Price shall also cover all the Supplier's obligations mentioned in or reasonably to be inferred from the Bidding Documents in respect of Design, Supply, Transportation to site, testing, commissioning, AMC etc. as applicable all in accordance with the requirement of Bidding Documents The Bidder shall complete the appropriate Price Schedules included herein , stating the Unit Price for each item & total Price.

9.2 The prices offered shall be inclusive of all costs as well as Duties, Taxes and Levies paid or payable during execution of the supply work, breakup of price constituents, should be there.

Prices quoted by the Bidder shall be FIRM "and not subject to any price adjustment during the performance of the Contract. A Bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

10. BID CURRENCIES

Prices shall be quoted in Indian Rupees (INR) / USD/ Euro Only.

11. PERIOD OF VALIDITY OF BIDS

11.1 Bids shall remain valid for 90 days from the due date of submission of the bid.

11.2 Notwithstanding Clause 11.1 above, the Purchaser may solicit the Bidder's consent to an extension of the Period of Bid Validity. The request and the responses thereto shall be made in writing by Fax/e-mail.

12. ALTERNATIVE BIDS

Bidders shall submit Bids, which comply with the Bidding Documents. Alternative Bids will not be considered. Bids which are not substantially responsive to the requirements of the Bidding Documents shall be rejected.

13. FORMAT AND SIGNING OF BID

- 13.1 The Bid documents shall be signed by the Bidder or a person or persons duly authorized to sign on behalf of the Bidder. Such authorization shall be indicated by written Power-of-Attorney accompanying the Bid.
- 13.2 The Bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid.

C. SUBMISSION OF BIDS

The subject procurement will be done through e-tendering. The NIT is available on the website i.e. <http://www.adanielectricity.com> where the bidders registered with AEML.

- i) Bidder will be able to download the Tender documents and submit their bids online.
- ii) The Tender submission, Tender closing and opening shall be done electronically online.
- iii) Steps for Download and Upload of Tender Documents on website

Portal Bidder(s) need to follow following steps for to participate in bidding process online:

I. Get the list of published tenders: Tender details with General Conditions, Pre-Qualification Criteria and Technical Qualification Criteria are listed on the website <http://www.adanielectricity.com>

II. Registration Process:

- a. User Registration on the e-Tendering Portal is required to access / download the tender document and to participate in the bidding process.
- b. To get registered on e-Tendering portal, vendors needs to fill-up the details in the portal by clicking on the "click here" option in download column.

III. Tender / BID Document Download:

On successful registration, a system generated mail will be sent to the user with the following details.

- a. Website link
- b. Login details to login & download the Tender document.

IV. Submit / Upload a bid online: User to upload the filled-in bid documents using the credentials shared via e-mail.

Note: Post due date & time, Bid submission will not be accepted.

14. PREPARATION OF BIDS

Procedure for Submission of Bid.

The Bidder shall submit the proposal in three envelopes labeled as Envelope-I, Envelope-II and Envelope-III.

Three Envelopes should contain the details of the offer as follows:

A. *Envelope-I shall contain

- i) Bid document fee / cost of tender documents in form of Banker's Cheque / Demand Draft / Pay order in favor of "Adani Electricity Mumbai Ltd.
- ii) Bid Security fees / Earnest Money Deposit in form of Bank Guarantee in prescribe format.
- iii) Power of attorney to sign the bid. Bidders to use their own format.

*Physical Documents to be submitted before bid submission date and time on address mentioned in RFP.

B. Envelope-II shall contain (To be submitted Online)

Techno commercial Proposal of the bid shall comprise of:

- Technical Literature/ GTP/Type test report etc
- Qualified Manpower available
- Testing Facilities
- Acceptance to Commercial Terms and Conditions (GCC & SCC)
- Deviation statement as per FORM 4
- Documentary evidence regarding bidder's qualifications to perform the contract as required in qualifying Requirement.

C. Envelope-III should contain (To be submitted Online)

Price Bid in the format prescribed in the tender document.

BID shall be addressed to

Head of Department
Central Procurement Group

Adani Electricity Mumbai Ltd. Devidas Lane, Off. SVP Road, Near Devidas MTNL telephone Exchange, Borivali (West), Mumbai 400 103

15. DEADLINE FOR SUBMISSION OF BIDS

- 15.1 The original Bid together with the required copies, must be received by the Purchaser at the address specified no later than the due date specified earlier
- 15.2 The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with Clause 9.0, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

16. ONE BID PER BIDDER

Each Bidder shall submit only one Bid either by itself, or as a partner in a Joint Venture. A Bidder who submits or participates in more than one Bid will cause all those Bids to be rejected.

17. LATE BIDS

Any Bid received by the Purchaser after the deadline for submission of Bids prescribed by the Purchaser, pursuant to Clause 16.0, will be declared "Late" and rejected and returned unopened to the Bidder.

18. MODIFICATIONS AND WITHDRAWAL OF BIDS

The Bidder is not allowed to modify or withdraw its Bid after the Bid 's submission.

D. EVALUATION OF BID

19. PROCESS TO BE CONFIDENTIAL

Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process. Any effort by a Bidder to influence the Purchaser's processing of Bids or award decisions may result in the rejection of the Bidder's Bid.

20. CLARIFICATION OF BIDS

To assist in the examination, evaluation and comparison of Bids, the Purchaser may, at its discretion, ask the bidder for a clarification of its Bid. All responses to requests for clarification shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted.

21. PRELIMINARY EXAMINATION OF BIDS / RESPONSIVENESS

- 21.1 Purchaser will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order. Purchaser may ask for submission of original documents in order to verify the documents submitted in support of qualification criteria.
- 21.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will be corrected. If there is a discrepancy between the total amount and the sum of the total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.
- 21.3 Prior to the detailed evaluation, Purchaser will determine the substantial responsiveness of each Bid to the Bidding Documents including production capability and acceptable quality of the Goods offered. A substantially responsive Bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviation.
- 21.4 Bid determined as not substantially responsive will be rejected by the Purchaser and/or the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

22. EVALUATION AND COMPARISON OF BIDS

- 22.1 The evaluation of Bids shall be done based on the delivered cost competitiveness basis.
- 22.2 The evaluation of the Bids shall be a stage-wise procedure. The following stages are identified for evaluation purposes: In the first stage, the Bids would be subjected to a responsiveness check. The Technical Proposals and the Conditional ties of the Bidders would be evaluated.
- Subsequently, the Financial Proposals along with Supplementary Financial Proposals, if any, of Bidders with Techno-commercially Acceptable Bids shall be considered for final evaluation.
- 22.3 The Purchaser's evaluation of a Bid will take into account, in addition to the Bid price, the following factors, in the manner and to the extent indicated in this Clause:
- a. Delivery Schedule
 - b. Conformance of Qualifying Criteria
 - c. Deviations from Bidding Documents

Bidders shall base their Bid price on the terms and conditions specified in the Bidding Documents.

The cost of all quantifiable deviations and omissions from the specification, terms and conditions specified in Bidding Documents shall be evaluated. The Purchaser will make its own assessment of the cost of any deviation for the purpose of ensuring fair comparison of Bids.

- 22.4 Any adjustments in price, which result from the above procedures, shall be added for the purposes of comparative evaluation only to arrive at an "Evaluated Bid Price". Bid Prices quoted by Bidders shall remain unaltered.

E. AWARD OF CONTRACT

23. CONTACTING THE PURCHASER

- 23.1 If any Bidder wishes to contact the Purchaser on any matter related to the Bid, from the time of Bid opening to the time of contract award, the same shall be done in writing only.
- 23.2 Any effort by a Bidder to influence the Purchaser and/or in the Purchaser 's decisions in respect of Bid evaluation, Bid comparison or Contract Award, will result in the rejection of the Bidder's Bid.

24. THE PURCHASER 'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

The Purchaser reserves the right to accept or reject any Bid and to annul the Bidding process and reject all Bids at anytime prior toward of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

25. AWARD OF CONTRACT

- 25.1 The purchaser reserves all the rights to award the contract to one or more bidders so as to meet the delivery requirement or nullify the award decision without any reason.
- 25.2 In the event of your bid being selected by purchaser (and / or its affiliates) and your subsequent DEFAULT on your bid; you will be required to pay purchaser (and / or its affiliates) an amount equal to the difference in your bid and the next lowest bid on the quantity declared in RFQ.
- 25.3 In case any supplier is found unsatisfactory during the delivery process, the award will be cancelled and ADANI ELECTRICITY MUMBAI LTD reserves the right to award other suppliers who are found fit.
- 25.4 AEML reserves the right to distribute the total requirement on one or more than one of the eligible Bidders.
- 25.5 Repeat Order: AEML reserves the right to place repeat order at the same rates & terms and conditions as per this tender against additional requirement subject to mutual agreement between AEML& supplier.

26. THE PURCHASER 'S RIGHT TO VARY QUANTITIES

The Purchaser reserves the right to vary the quantity by 20% i.e. increase or decrease the numbers/quantities without any change in terms and conditions during the execution of the Order.

27. LETTER OF INTENT/ NOTIFICATION OF AWARD

The letter of intent/ Notification of Award shall be issued to the successful Bidder whose bids have been considered responsive, techno-commercially acceptable and evaluated to be the lowest (L1). The successful Bidder shall be required to furnish a letter of acceptance within 7 days of issue of the letter of intent /Notification of Award by Purchaser.

28. CORRUPT OR FRADULENT PRACTICES

28.1 The Purchaser requires that the Bidders observe the highest standard of ethics during the procurement and execution of the Project. In pursuance of this policy, the Purchaser:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
 - i) "Corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/or those close to them, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; and
 - ii) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition.
- b. Will reject a proposal forward if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- c. Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a Contract if it at any time determines that the firm has engaged in corrupt or fraudulent Practices in competing for, or in executing, a contract.

28.2 Furthermore, Bidders shall be aware of the provision stated in the General Conditions of Contract.

29. MARKET INTEGRITY

We have a fair and competitive marketplace. The rules for bidders are outlined in the Terms & Conditions. Bidders must agree to these rules prior to participating. In addition to other remedies available, we reserves the right to exclude a bidder from participating in future markets due to the bidder's violation of any of the rules or obligations contained in the Terms & Condition. Bidders who violate the marketplace rules or engage in behavior that disrupts the fair execution of the marketplace restricts a bidder to length of time, depending upon the seriousness of the violation. Examples of violations include, but are not limited to:

- a) Failure to honor prices submitted to the marketplace.
- b) Breach of the terms of the published in Request for Quotation/NIT.

30. SUPPLIER CONFIDENTIALITY

All information contained in this RFQ shall not be disclosed, published or advertised in any manner without written authorization from AEML. This includes all bidding information submitted. All RFQ documents remain the property of AEML.

Suppliers who do not honor these confidentiality provisions will be excluded from participating in future bidding events

Section-III: Scope of Work

1. Introduction

AEML has been in the field of power distribution since many years with a network that spans over 400 Sq.kms area catering to the electricity needs of over 3.1 million customers. The area in Suburban Mumbai served by AEML is from Bandra to Bhayander on the western side, and Sion to Mankhurd on the eastern Side.

This area covers with Multi story buildings where meter location is either in the ground floor or in the basement inside meter cabin. 90% meters are on the ground floor area and rests are in the basement. Each meter cabin is assigned with connection object ID in the GIS system.

AEML distribution network comprises of approx. 92 nos. of receiving stations, 6670 distribution transformers (substations) which is growing every year to meet the ever-expanding consumer base.

2. Background:

Consumers in East division are predominately residing in Slum clusters where group of electric meters are installed in Meter Cabin. Electric meters are generally installed on wall provided by the customer. Board wiring is done on wooden board with MCBs and wires. In slum cases, meters are installed in FRP meter cabins or customized wooden meter boxes supplied by customers. In Building cases, Meters are installed in enclosed civil structure on Ground floor or Basement provided by Consumers. Refer figure 1 for Meters Installed in Groups in buildings & Slums

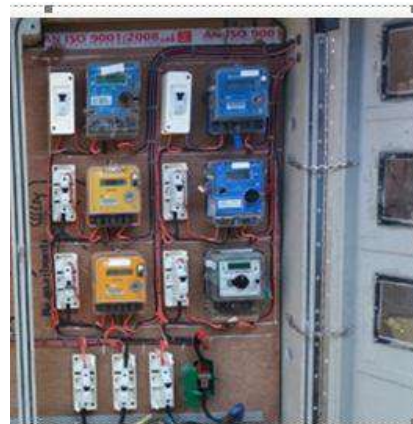


Figure 1 Meters installed in Buildings Meters installed in Slums

It is proposed to invite techno commercial proposal from Vendor to Supply, installation, Testing & Commissioning RF Canopy Network & its elements, Group Smart Meter Cabins along with Group smart meters and Meter Cabins along with Standalone Smart Meters. Selection of Type of Meter Cabin & Smart Meter shall depend upon No. of Meters to be replaced with Smart meters at a given location (Consumer end Point) and availability of space on site.

3. Solution Requirement:

The Group Smart Metering solution comprises of integrating multiple Compact Smart meters (Single & Three Phase) mounted in a distribution board outside the consumer premises & connected to a local Data Concentrated Unit (DCU) for communication purpose.

The envisaged layout of Group smart metering shall be as below.

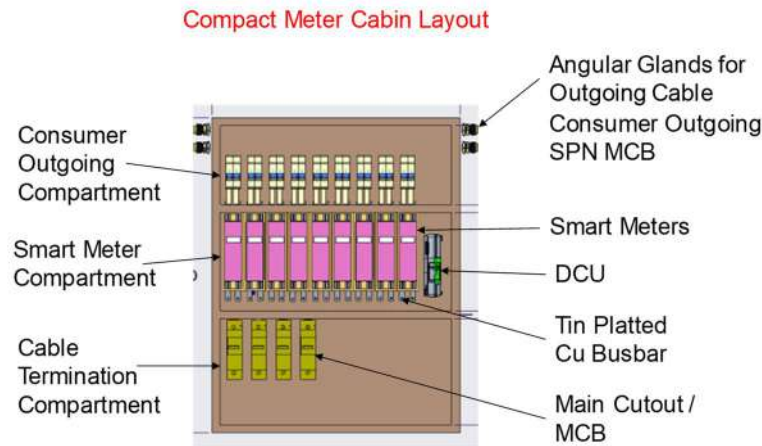
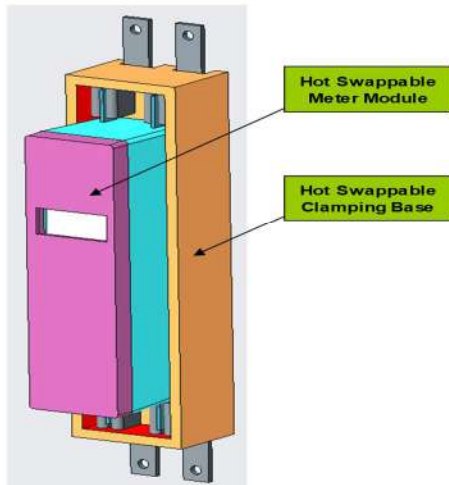


Figure 2

Meter Module Assembled View



Meter Module Opened View

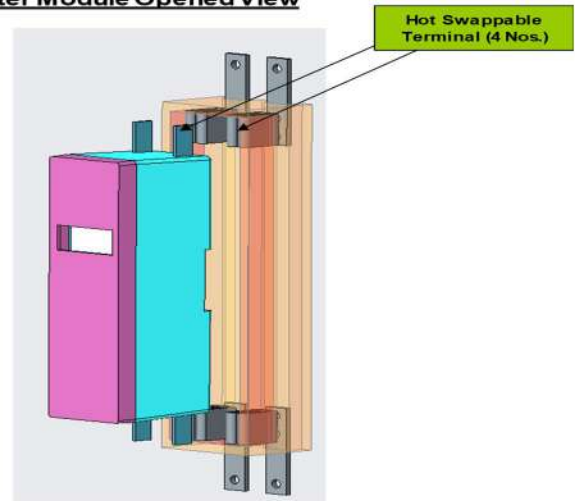


Figure 3

AEML ("Adani Electricity Mumbai Ltd) envisages for implementing Smart Group Metering by setting up RF communication canopy network across its distribution area spanning over 99 Sq. kms areas in East Division, catering to over 7 lakhs metering points. Scope of Work

The broad scope of the bidder(s) together with partners / OEMs shall include designing, engineering, manufacturing, testing, inspection, packing, supply, transportation & insurance (till delivery at site) , delivery to warehouse (locations shall be intimated later), unloading, handling and Site installation. Given the size, the selected winning bidder along with partners & OEMs may need to work together for deliverables.

Supply of Material & Systems

- I. Network elements of proposed RF communication canopy
- II. RF NIC & RF Nodes & Mini DCUs
- III. Meter Cabin & Standalone Smart Meters
- IV. Group Smart Meter cabin & group Smart Meters
- V. Head end system (HES) along with on cloud IT Infra
- VI. Meter Data Management System (MDMS) along with on cloud IT Infra
- VII. Customer Portal and Mobile App (Subscription based)

Installation, Testing, Commissioning & Implementation

- I. Network elements of proposed RF communication canopy
 - II. RF NIC & RF Nodes & Mini DCUs
 - III. Meter Cabin & Standalone Smart Meters
 - IV. Group Smart Meter cabin & group Smart Meters
 - V. Head end system (HES) along with on cloud IT Infra
 - VI. Meter Data Management System (MDMS) along with on cloud IT Infra
 - VII. Customer Portal -

Refer Annexure VII & VIII for field deployment works related to RF Communication canopy network element, Group Smart Meter Cabin & Smart Meters

Integration

- I. Integration of Smart Meters, RF Nodes with HES and vice-versa.
- II. Integration of existing Meter Protocols in AEML distribution system
- III. Integration with future upcoming DLMS Meters with rate card
- IV. Integration of HES with MDMS
- V. Integration between MDMS, HES, SAP, GIS, OMS, Customer Portal & other AEML systems.
- VI. End-to-end integration of AMI workflows.
- VII. Integrations required to enable Prepaid metering.
- VIII. Integration of existing & future meter protocols available in AEML

Warranty and Support for 10 Years

- I. FMS (Field Maintenance Services) for RF Communication Canopy Network
- II. Software (HES , MDM and Consumer Portal) support
- III. Maintain IT Infrastructure on cloud

Training

- I. Successful Bidder along with respective partner / OEM should provide support and training to AEML officials on:
 - a. Installation, Testing, Commissioning, Troubleshooting, Maintenance and Operations of smart meters, Canopy Network elements, RF Nodes.
 - b. RF Network Management, troubleshooting, maintenance and operations
 - c. Head-end System - Installation, Testing, Management, Troubleshooting, processes, configurations etc.
 - d. Integration - Management, Troubleshooting, processes, configuration etc.
 - e. Meter Data Management System (MDMS) - Installation, Testing, Management, Troubleshooting, processes, configuration etc.
 - f. Customer Portal - Installation, Testing, Management, Troubleshooting, processes, configuration, customer on-boarding etc.
 - g. Integration - Management, Troubleshooting, processes, configuration etc.
 - h. IT Infrastructure - Installation, Testing, Management, Troubleshooting, processes, configuration on cloud hosting.

The detailed scope of work of each item has been mentioned in the subsequent sections of the respective requirement documents.

The detailed BOQ (Bill of Quantity) has been mentioned in the subsequent sections of this document.

Any bidder making a proposal to AEML must demonstrate compliance to the Indian Standards with latest amendments.

The desired functional and technical specifications of material have been mentioned in the subsequent sections of this document. However, the intent is not to specify and capture all the aspects of design and installation associated with communication canopy network, smart meters, software mentioned herein. It shall be the obligation of bidder(s) that all the systems, sub-systems and equipment's/devices shall conform in all respect to high standards of engineering, design and workmanship, and shall be capable of performing continuous commercial operation as per best industry standards.

4. Bill of Quantity (BOQ)

Sr. No	Particular	Quantity	UOM
1	Canopy / Communication Infra		
1.1	RF Canopy Gateways	To be proposed	Nos
1.2	ITC of RF Canopy Gateways	To be proposed	Nos
2	Retrofit Nodes		
2.1	Retrofit Nodes for HT CT meters (11 KV Receiving Stations)	622	Nos
2.2	ITC of Retrofit Nodes for HT CT meters (11 KV Receiving Stations)	622	Nos
3	Standalone Smart Meter		
3.1	Standalone Smart LT CT Meters (Excl.NIC Card) (LTP2, DT & STLT)	4,346	Nos
3.2	RF NIC for Standalone Smart LT CT Meters (LTP2, DT & STLT)	4,346	Nos
3.3	ITC of Standalone Smart LT CT Meters (LTP2, DT & STLT)	4,346	Nos
4	Group Smart meters		
4.1	Group Smart Meter Cabin for 3 Single Phase Meters (400 x 800 x 250) (3 Meter Cabin - SMC) (Excl.NIC Card)	36,728	Nos
4.2	Group Smart Meter Cabin for 3 Single Phase Meters (400 x 800 x 250) (3 Meter Cabin - Polycarbonate) (Excl.NIC Card)	36,728	Nos
4.3	Group Smart Meter Cabin for 6 Single Phase Meters (450 x 800 x 250) (6 Meter Cabin - SMC) (Excl.NIC Card)	38,085 [#]	Nos
4.4	Group Smart Meter Cabin for 6 Single Phase Meters (450 x 800 x 250) (6 Meter Cabin - Polycarbonate) (Excl.NIC Card)	38,085 [#]	Nos
4.5	Group Smart Meter Cabin for 9 Single Phase Meters (600 x 800 x 250) (9 Meter Cabin - SMC) (Excl.NIC Card)	27900	Nos
4.6	Group Smart Meter Cabin for 18 Single Phase Meters (600 x 1250 x 250) (18 Meter Cabin - SMC) (Excl.NIC Card)	22,040	Nos
4.7	Group Smart Meter: 1 Ph whole (10-60 A) Current Meter	6,17,727 [#]	Nos
4.8	Group Smart Meter: 3 Ph (10-60A) Whole Current Meter	76,462 ^{**}	Nos
4.9	Blanking Plate	1,34,789 ^{**}	Nos

4.10	RF NIC of Group Smart Meter Cabin	1,24,753*	Nos
4.11	ITC of Group Smart Meter Cabin for 3 Single Phase Meters (400 x 800 x 250) ^{uu}	36,728	Nos
4.12	ITC of Group Smart Meter Cabin for 6 Single Phase Meters (450 x 800 x 250) ^{uu}	38,085 [#]	Nos
4.13	ITC of Group Smart Meter Cabin for 9 Single Phase Meters (600 x 800 x 250) ^{uu}	27,900	Nos
4.14	ITC of Group Smart Meter Cabin for 18 Single Phase Meters (600 x 1250 x 250) ^{uu}	22,040	Nos
4.15	ITC of Group Smart Meter: 1 Ph whole (10-60 A) Current Meter ^{uu}	6,17,727 [#]	Nos
4.16	ITC of Group Smart Meter: 3 Ph (10-60A) Whole Current Meter ^{uu}	76,462 ^{**}	Nos
5	Additional items during ITC of Meter Cabin		
5.1	Removal / Installation of Switch Fuse Unit (SFU) ^{uu}	10,700	Nos
5.2	ITC of Mini Pillar post SFU ^{uu}	2,000	Nos
5.3	Raising of Service Cable ^{uu}		
5.3.1	2C/4C, 25 sq.mm. cable / 4C, 50 sq.mm. cable	11,000	Nos
5.3.2	3.5C, 150 sq.mm. cable/ 3.5C,300 sq.mm. cable	500	Nos
6.	Head End System (HES)		
6.1	Head end System (HES) software with perpetual licenses	6,99,157	Nos
6.2	HES Support for 10 Yrs (AMC + Maintain IT Infra on Cloud) (Support to be quoted for 10 years)	10	Years
7.	Field Management System		
7.1	FMS (Field Maintenance Services) for RF Communication Canopy Network (FMS to be quoted for 10 years)	10	Years
8.	Meter Data Management & Consumer Portal		
8.1	Meter Data Management System (MDMS) Software with perpetual licenses	7,50,000	Nos
8.2	Subscription based Customer Portal (Cost to be quoted for 10 years)	1,00,000	Nos
8.3	MDMS Support for 10 Yrs (AMC + Maintain IT Infra on Cloud) (Support to be quoted for 10 years)	10	Years
9.	Installation & Integration		
9.1	HES, MDM Installation	1	Lumpsum
9.2	HES, MDMS & Consumer Portal Integrations with existing system	1	Lumpsum
9.3	Rate card for Integration of Smart Meter to MiniDCU in Future (During support period)	1	Nos
10.	Communication Infrastructure		

10.1	MPLS backhaul (Minimum 2 Service Providers with 100% Redundancy)	1	Lumpsum
------	--	---	---------

Note:

- * Prices quoted by bidder shall be valid for minimum 50% of BOQ
- # Prices quoted by bidder shall be valid for minimum 75% of BOQ
- ** Prices quoted by bidder shall be valid for minimum 90% of BOQ
- üü Refer annexure IX for detailed BOQ
- * Quantity of the RF canopy network elements shall be proposed by the Bidder as per their proposed solution.

Rate card for Integration of Smart Meter to Mini DCU / Gateway in Future (During support period) shall be given separately.

Section-IV: Technical Specifications

1. RF Communication Canopy Network

Refer Annexure I - RF Communication Canopy Network Requirement Document

This annexure includes the scope of work, additional qualification criteria and technical specifications of RF communication canopy network, RF Gateways / Access Points, DCUs, RF Nodes, RF Network Interface Card (NIC), Head-end system (HES), SLA.

2. Smart Meters

Refer

Annexure II - Single Phase (10-60 A) Group Smart Meter Document

Annexure IIIIV - Three Phase (10-60 A) Group Smart Meter Document

These annexures include the scope of work, additional qualification criteria, technical specifications of Group Smart meter and standalone Smart Meter, Functional & Acceptance Testing.

3. Group Smart Meter Cabin

Refer Annexure IV - Group Smart Meter Cabin Document

This annexure includes the scope of work, additional qualification criteria and technical specifications of Group Smart Meter Cabin & Accessories.

4. MCB Specification

Refer Annexure V - MCB Specification Document for Meter Cabin Incoming & Outgoing MCBs.

5. ITC of Group Smart Meter Cabin & Standalone meter reboardwiring -

Refer Annexure VI - Scope Document for ITC of Group Smart Meter Cabin & Standalone meter re-board wiring

This annexure includes the scope of work, additional qualification criteria and technical specifications for Installation, testing & Commissioning of Group Smart Meter Cabin, Smart Meters and re-board wiring of Standalone meter.-

6. RF Canopy-Field Installation Work Requirement

Refer Annexure VII - RF Canopy-Field Installation Work Requirement Document

This annexure includes the scope of work, additional qualification criteria and technical specifications for Installation, testing & Commissioning of RF Canopy Gateways, Mini DCU, RF NIC Cards & RF Retrofit Nodes.

7. Field Management System (FMS)

Refer Annexure VIII - Field Management System (FMS) requirement Document

8. IT Infrastructure & maintenance

Refer Annexure IX – IT Infrastructure and maintenance requirement Document. This annexure includes scope of work, additional qualification, Performance criteria and technical & functional specifications.

9. Meter Data Management System (MDMS)

Refer Annexure – Annexure A - Meter Data Management System (MDMS) Requirement Document. This annexure includes the scope of work, additional qualification criteria and technical & functional specifications of Meter Data Management System (MDMS), integration requirements and SLA

10. Customer Portal

Refer Annexure – Annexure B - Customer Portal Requirement Document

This annexure includes the scope of work, additional qualification criteria and technical & functional specifications of Customer Portal, integration requirements and SLA.

11. AMI SLA performance

Refer Annexure – Annexure C – SLA Performance

This annexure includes the performance, SLA and Penalty criteria

Section-V: Project Management, FMS, IT Maintenance, Change Management

1. Project Management

The successful bidder shall ensure that the Project is successfully completed in the timelines given by AEML. The bidder shall submit an overall Project plan along with the bid keeping in mind the timelines.

- a. The bidder shall prepare a Project tracker listing down all the activities in detail
- b. The bidder shall be responsible for deployment of network elements, & Group Smart meters, DCU, Group Smart Meter Cabins & RF nodes at the locations given by AEML. AEML will provide the co-ordinates and location details of the sites / meters where the Canopy and nodes are to be deployed.
- c. The bidder shall be responsible for deployment of head-end system and network management tools.
- d. The bidder shall submit implementation guidelines for the RF Canopy network.
- e. Bidder will share its field execution team details. AEML will issue a permission letter to the designated manpower of bidder for the deployment.
- f. Bidder execution team will coordinate with AEML representative for activities viz arrangement of keys for its substations, permission for installation at customer premises etc. The bidder may seek support of Project Manager in this regard and keep him informed of all the communications.
- g. The bidder may follow the escalation matrix in case of any support required.
- h. The bidder shall provide all the construction equipments, tools and tackles, testing kits and equipments required for assembling, installing, testing and commissioning of the terminals and system.
- i. The bidder shall ensure that its team adheres to all the local rules for safety and security and as advised by AEML Project Manager and on site in-charge. The successful bidder shall indemnify AEML against any action like prosecution, fire, show cause notice etc. for any breach by the successful bidder or its employees, alleged or otherwise of any of the provisions of the law of the government / judicial authorities.
- j. The bidder shall work as per the project schedule and shall not be relieved until the project is successfully completed and handed over.

Progress Report

- a. The bidder shall submit a project progress report / tracker on weekly basis (every Monday / Saturday). The report shall include all the activities completed, on-going and scheduled from the beginning till the completion of the project. Format shall be agreed on mutually. The report may list down all the issues, classify them as per severity and also give the timelines for its resolution.
- b. The bidder shall publish daily status of the installations of equipment and systems carried out in the format agreed.
- c. Apart from the installation and progress report, the bidder shall submit daily, weekly and monthly reports on the network status, data availability reports, failure reports, issue trackers, data center uptime, bandwidth utilization reports, server utilization reports, system security reports, in the format agreed and / or other reports as required by the buyer.
- d. The bidder shall ensure sign off for each and every installation in the format agreed. The sign off has to be taken the very next day of installations / weekly.

Review Meetings

- a. AEML may hold a Project progress review meetings at least weekly with the Project Management team of the successful bidder.
- b. AEML may hold a monthly review meeting with the Senior Management team of the successful bidder.
- c. In case of any major deviation from the plan and / or any anomalies, AEML may call for a meeting with the bidder team depending on the severity and impact. The bidder shall make themselves available for the meetings as and when required.
- d. During these Project progress review meetings, the progress report and the written correspondence exchanged during the last meeting, along with the open action items will be reviewed
- e. The bidder shall also ensure that its competent technical team is available for meetings as and when required. These technical meetings shall be conducted as extensions to the Project progress review meetings.

2. FMS (Facility Management Services)

- a. The Successful Bidder shall be required to provide Facility Maintenance Services to manage implemented canopy network including hardware, software etc in order to meet the desired Service Level Agreement as mentioned in the RFP. The successful bidder shall provide detailed description for the service delivery management for the complete project. The seller shall submit

a comprehensive FMS process, plan and deliverables for the entire system including the field activities along with the proposal to the buyer for approval.

- b. It shall be the responsibility of the successful bidder to maintain the network uptime and provide the data availability as mentioned in SLA section of the RFP. buyer expects the successful bidder to maintain a helpdesk for FMS.
- c. To maintain the desired Service Levels, the Bidder may need to interact, coordinate and collaborate with the other Service Providers and it's partners as required. The Bidder shall act as the Single Point of Contact for all the issues relating to the Service Levels.
- d. FMS services shall immediately start after the systems are installed, commissioned and handed over to the buyer post Operational acceptance. Operational acceptance will be given by the buyer post successful completion of User Acceptance Test (UAT).
- e. The maintenance of this complete Canopy and system under the FMS period shall be comprehensive, as set forth herein, in nature and would broadly include but shall not be limited to diagnosis, troubleshooting and rectification of hardware, software and other system failures in the scope of the seller.
- f. The successful bidder shall perform periodic health checkups and troubleshooting of all the hardware, software and systems and implement proactive rectification measures as required.
- g. The successful bidder shall provide daily, weekly and monthly reports during the FMS period. The buyer shall submit the report details and format along with the proposal for approval of the buyer.
- h. **FMS Team:** Successful bidder shall appoint FMS manager immediately after transition of project in the FMS phase. FMS manager will be single-point-of-contact for responding to all the queries from buyer or accepting its problem management requests. The bidder shall deploy sufficient and qualified, skilled manpower to carry out the FMS services. It is imperative for the FMS staff to know the RFP and be able to deal with all the queries related to hardware, software, infrastructure, and network. The successful bidder shall ensure replacement in not more than 7 days of the FMS staff whose performance is not found satisfactory by the buyer.
- i. **Hardware/Software Maintenance and Monitoring:** This would include problem identification, troubleshooting, configuration issues of all hardware, software and other systems. The bidder shall report all the issues to the buyer along with the resolution. All such issues would need to be recorded and rectified by the successful Bidder in stipulated time as per SLA mentioned in the RFP. The successful bidder shall provide asset tracking services during the FMS period.
- j. **24x7 Network Monitoring and reporting:** The successful Bidder shall monitor the network on a continuous 24x7 basis to ensure network uptime as mentioned in SLA section of the RFP. The Bidder should take appropriate action on network failure and ensure to resolve the issue by

taking necessary action within specified duration. Bidder should publish weekly report on network status containing downtime and network failure analysis to AEML.

- k. **Engagement with Network Service Provider:** In the event of network failure due to the service provider / partner, the Bidder shall immediately take up with network service provider and shall also notify the buyer for communication failures.

3. IT Infra maintenance

- a. The Successful Bidder shall be required to provide IT infra maintenance for the period of 10 years for the said AMI system with no impact on performance.
- b. It shall be the responsibility of the successful bidder to maintain the network uptime and provide the data availability 24 x 7 x 365.

4. Change Management

- a. During the performance of the Contract, the buyer shall have the right to propose and subsequently require any modification, addition or deletion to, in or from the facilities (now called as 'change')
- b. The successful bidder may time to time during the execution of the contract propose to the buyer any Change that the bidder envisages important and necessary to improve the quality, performance, efficiency of the facilities. The buyer may at its discretion approve or reject any Change proposed by the successful bidder.
- c. Changes made due to default of the successful bidder in the execution and performance of its obligations under the contract shall not be deemed to be a change. The buyer shall not consider such change as any adjustment in the timely completion of the contract or price adjustment.
- d. The successful bidder, in the event of any Change proposed, shall submit a written "Request for Change Proposal" detailing the below reasons
- Description of Change proposed
 - Effect on the timelines of contract Completion
 - Proposed cost of Change
 - Whether any functional guarantees
 - Effect if any on any other provisions of the contract.
- e. The bidder may not be entitled to recover the costs of preparing the 'Request for Change Proposal'.

Changes proposed by the Buyer / Change Orders

- a. The buyer may at any time order the seller through written notice to make changes within the general scope of the contract which may be (not limited to) any one of the following
 - Specifications of hardware.
 - Specifications of software.
 - Specifications of related services.
 - Method of packing and shipment.
 - Place of delivery.
 - Other services
- b. If any changes result in an increase or decrease in the cost or of the time required for the successful bidders performance of any of the provision of the contract, an equitable adjustment shall be considered in the contract price, or in the delivery and completion schedule, or both and the buyer may consider to amend the contract accordingly. The successful bidder shall assert the claim within 2 weeks from the receipt of buyers change order.

5. Inspection and Testing

- a. The Buyer reserves the right to inspect the goods / service at any place including at the manufacturing premises of the sub-contractors / sub seller. The seller shall give an inspection notice a week prior to inspection.
- b. All the reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the buyer.

Section-VI: Project Delivery Schedule

This project is of utmost importance to AEML. The delivery and implementation timeline would be a key yardstick in the selection criteria of suitable partner / bidder.

- I. All Schedules will be calculated from the Zero Date i.e. Date of issue of Purchase Order or LOI whichever is issued earlier.
- II. Delivery of the requirement shall be made within 1 weeks from the date of PO or LOI whichever is issued earlier.
- III. Part delivery will not be considered.
- IV. Delivery as per the purchase order must be made before submitting the invoice for payment. Part payment of the equipment will not be made other than payment terms.
- V. Vendor to provide complete bill of materials with part numbers which will be required to identify proper delivery.
- VI. Testing, commissioning & integration of the total system / solution and final acceptance by AEML should be completed within 2 weeks from the date of delivery.
- VII. Delay in project execution wrt the schedule provided below shall attract penalty @0.1% per day of the delayed quantity thereof, maximum up to 10% of the total contract order value, shall be deducted at the time of making payment.

Activity	Jan'21- Mar'21	Apr'21- Jun'21	Jul'21- Sept'21	Oct'21- Dec'21	Jan'22- Mar'22	Apr'22- Jun'22	Jul'22- Sept'22	Oct'22- Dec'22
Supply of material as per BoQ, installation, testing & Commissioning	15%	15%	15%	15%	10%	10%	10%	10%
Implementation phase:	1. For each Quarter, the material required should be ready by the end of the previous Quarter 2. In first quarter FY 21(Jan21-Mar-21), 15% of Supply, ITC & Integration shall include 100% HT CT and LTCT meters deployment							

The indicative milestones and project timelines are given below:

S.No.	Milestone	Time schedule as specified
1	Issue of Purchase/Work Order to the selected bidder (LOI/LOA)	T0
2	Date of acceptance of Purchase/Work Order by the bidder	T0 + 1 Week
3	Setup of Cloud Environment and Handover the Cloud Environment to AEML	As per Project commissioning schedule above
4	Training and Joint Acceptance Testing of setup	T0+2 Week

The bidder shall be strictly adhere to above mentioned timelines

After receipt of PO, vendor to submit sample within 30 days.

Delivery of material and implementation process shall commence post 60 days from receipt of order

Section-VII: Terms & Conditions of Contract

Kindly refer to GCCs & SCC separately attached here with

Section-VIII: Service Level Agreement (Mandatory & Non-negotiable)

Kindly refer to Annexure C separately attached here with

Section-IX: BID FORMS

1. Bid form

To

Head of Department
Central Procurement Group
Adani Electricity Mumbai Ltd
Devidas Lane, Off. SVP Road,
Near Devidas MTNL telephone Exchange,
Borivali (West), Mumbai 400 103

Sir,

We understand that Adani Electricity Mumbai Ltd. is desirous of procuring of in it's licensed distribution network area in MUMBAI 2 Having examined the Bidding Documents for the above named works, we the undersigned, offer to deliver the goods in full conformity with the Terms and Conditions and technical specifications may be determined in accordance with the terms and conditions of the contract .The above Amounts are in accordance with the Price Schedules attached herewith and are made part of this bid. 3 If our Bid is accepted, we undertake to deliver the entire goods as) as per delivery schedule mentioned in Section IV from the date of award of purchase order/letter of intent.4 If our Bid is accepted, we will furnish a performance bank guarantee for an amount of10% (Ten) percent of the total contract value for due performance of the Contract in accordance with the Terms and Conditions. 5 We agree to abide by this Bid for a period of days from the due date of bid submission and it shall remain binding upon us and may be accepted at any time before the expiration of that period. 6 We declare that we have studied the provision of Indian Laws for supply of equipments/materials and the prices have been quoted accordingly. 7 Unless and until Letter of Intent is issued, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us. 8 We understand that you are not bound to accept the lowest, or any bid you may receive. 9 There is provision for Resolution of Disputes under this Contract, in accordance with the Laws and Jurisdiction of Contract.

Dated this..... day of..... 20

Signature..... In the capacity of

.....duly authorized to sign for and on behalf of

(IN BLOCK CAPITALS).....

2. FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

(To be signed & stamped by the bidder along-with bid)

ADANI ELECTRICITY MUMBAI LTD intends to use reverse auction through SAP-SRM tool as an integral part of entire tendering process. All bidders who are techno-commercially qualified on the basis of tender requirements shall participate in the reverse auction. The following terms and conditions are deemed as accepted by the bidder on participation in the bid:

1. In case of bidding through Internet medium, bidders are advised to ensure availability of all associated infrastructure as required to participate in the reverse auction event. Inability to bid due to telephone glitch, internet response issues, software & hardware hangs/failures, power failures or any other reason shall not be the responsibility of AEML
2. In case bidder fails to participate in the reverse auction event due to any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer and the initial bid submitted by them as a part of tender shall be considered as bidder's Final No Regret offer. Any off-line price bids received from a bidder in lieu of non-participation in the reverse auction event shall be rejected by AEML
3. The bidder is advised to understand the auto bid process to safeguard themselves against any possibility of non-participation in the reverse auction event.
4. The bidder shall be prepared with competitive price quotes during the day of reverse auction event.
5. The prices quoted by bidder in reverse auction event shall be on FOR Landed cost AEML Store/site basis inclusive of all relevant taxes, duties, levies, transportation charges etc.
6. The prices submitted by the bidder during reverse auction event shall be binding on the bidder.
7. The bidder agrees to non-disclosure of trade information regarding bid details e.g. purchase, identity, bid process/technology, bid documentation etc.
8. AEML will make every effort to make the bid process transparent. However, award decision of AEML will be final and binding on the bidder.
9. The prices submitted during reverse auction event shall be binding on the bidder.
10. No request for Time extension of the reverse auction event shall be considered by AEML

3. FORM FOR EMD BANK GUARANTEE

(To be issued in a Non Judicial Stamp Paper of Rs.100/- purchased in the name of the bank)

Whereas [name of the Bidder](hereinafter called the Bidder“) has submitted its bid dated [date of submission of bid] for the supply of [name and/or description of the goods] (hereafter called “the Bid”).

KNOW ALL PEOPLE by these presents that WE [name of bank]at[Branch Name and address],having our registered office at[address of the registered office of the bank](herein after called —the Bank“),are bound unto ADANI ELECTRICITY MUMBAI LTD. with it’s Corporate Office at Devidas Lane, Mumbai ,(herein after called —the Purchaser“)in the sum of Rs. _____ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20_____.

THE CONDITIONS of this obligation are:

If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or

If the Bidder, having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity:

(a) fails or refuses to execute the Contract Form, if required; or

(b) fails or refuses to furnish the performance security, In accordance with the Instructions to Bidders/GENERAL CONDITIONS.;

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that is its demand the purchaser will note that amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or condition s.

This guarantee will remain in force up to and including thirty (30) days after the period of bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the bank)

Signature of the witness

4. BID FORM : BIDDER'S COMMUNICATION DETAILS

General Information	
Name of the Company	
Postal Address	

For Technical Query		
Contact Person & Designation	Name	Designation
E-Mail	Mobile No.	Telephone No.

For Commercial Query		
Contact Person & Designation	Name	Designation
E-Mail	Mobile No.	Telephone No.

FORM 4: SCHEDULE OF DEVIATION FROM TECHNICAL SPECIFICATIONS

Bidders shall mention in this Schedule all Departures from the various clauses of the Specifications. In the absence of any mention in this schedule, the clauses of these Specifications shall be binding on the tenderers. If the departure specified herein, is found to be in contradiction to the AEML requirements/specifications then such offers will be treated as non-responsive.

(Must be filled by the Tenderers separately, if there is departure against the Pre-qualification criteria).

Sr No	Ref. to Section No. of Specifications No.	Deviations	Justification/Reasons

We have carefully gone through the specifications and we undertake to meet clauses in the specifications in all respects, except for the deviations mentioned above.

Authorized Signatory

Sign and Seal of the Company

FORM 5: SCHEDULE OF DEVIATION FROM COMMERCIAL TERMS & CONDITIONS

Tenderers shall mention in this Schedule all Departures from the various clauses of the GCC & SCC.

In the absence of any mention in this schedule, these clauses shall be binding on the tenderers.

If the departure specified herein, is found to be in contradiction to the AEML requirements then such offers will be treated as non-responsive.

Sr. No.	Ref. to Section No./ Clause No. of GCC/SCC	Deviations	Justification/Reasons

We have carefully gone through the GCC & SCC and we undertake to meet clauses in the in all respects, except for the deviations mentioned above.

Authorized Signatory
Sign and Seal of the Company

FORM 6 – PRICE BID FORMAT

(Bidder may revise format as required)

S.No.	Item Name	Qty	UOM	Unit Rate (Basic)	Import Duty if Applicable	F&I	GST @	Unit Rate (Landed)	Total Amount
A.CAPEX									
1	Canopy / Communication Infra								
1.1	RF Canopy Gateways								
1.2	ITC of RF Canopy Gateways								
2	Retrofit Nodes								
2.1	Retrofit Nodes for HT CT meters (11 KV Receiving Stations)								
2.2	ITC of Retrofit Nodes for HT CT meters (11 KV Receiving Stations)								
3	Standalone Smart Meter								
3.1	Standalone Smart LT CT Meters (Excl.NIC Card) (LTP2, DT & STLT)								
3.2	RF NIC for Standalone Smart LT CT Meters (LTP2, DT & STLT)								
3.3	ITC of Standalone Smart LT CT Meters (LTP2, DT & STLT)								
4	Group Smart meters								
4.1	Group Smart Meter Cabin for 3 Single Phase Meters (400 x 800 x 250) (3 Meter Cabin - SMC) (Excl.NIC Card)								
4.2	Group Smart Meter Cabin for 3 Single Phase Meters (400 x 800 x 250) (3 Meter Cabin - Polycarbonate) (Excl.NIC Card)								

4.3	Group Smart Meter Cabin for 6 Single Phase Meters (450 x 800 x 250) (6 Meter Cabin - SMC) (Excl.NIC Card)								
4.4	Group Smart Meter Cabin for 6 Single Phase Meters (450 x 800 x 250) (6 Meter Cabin - Polycarbonate) (Excl.NIC Card)								
4.5	Group Smart Meter Cabin for 9 Single Phase Meters (600 x 800 x 250) (9 Meter Cabin - SMC) (Excl.NIC Card)								
4.6	Group Smart Meter Cabin for 18 Single Phase Meters (600 x 1250 x 250) (18 Meter Cabin - SMC) (Excl.NIC Card)								
4.7	Group Smart Meter: 1 Ph whole (10-60 A) Current Meter								
4.8	Group Smart Meter: 3 Ph (10-60A) Whole Current Meter								
4.9	Blanking Plate								
4.10	RF NIC of Group Smart Meter Cabin								
4.11	ITC of Group Smart Meter Cabin for 3 Single Phase Meters (400 x 800 x 250) ^{uu}								
4.12	ITC of Group Smart Meter Cabin for 6 Single Phase Meters (450 x 800 x 250) ^{uu}								
4.13	ITC of Group Smart Meter Cabin for 9 Single Phase Meters (600 x 800 x 250) ^{uu}								
4.14	ITC of Group Smart Meter Cabin for 18 Single Phase Meters (600 x 1250 x 250) ^{uu}								

4.15	ITC of Group Smart Meter: 1 Ph whole (10-60 A) Current Meter ^{uu}								
4.16	ITC of Group Smart Meter: 3 Ph (10-60A) Whole Current Meter ^{uu}								
5	Additional items during ITC of Meter Cabin								
5.1	Removal / Installation of Switch Fuse Unit (SFU) ^{uu}								
5.2	ITC of Mini Pillar post SFU ^{uu}								
5.3	Raising of Service Cable ^{uu}								
5.3.1	2C/4C, 25 sq.mm. cable / 4C, 50 sq.mm. cable								
5.3.2	3.5C, 150 sq.mm. cable/ 3.5C,300 sq.mm. cable								
6	Head End System (HES)								
6.1	Head end System (HES) software with perpetual licenses								
6.2	HES Support for 10 Yrs (AMC + Maintain IT Infra on Cloud) (Support to be for 10 years)								
7	Field Management System								
7.1	FMS (Field Maintenance Services) for RF Communication Canopy Network (FMS to be quoted for 10 years)								
8	Meter Data Management & Consumer Portal								
8.1	Meter Data Management System (MDMS) Software with perpetual licenses								

8.2	Subscription based Customer Portal (Cost to be quoted for 10 years)								
8.3	MDMS Support for 10 Yrs (AMC + Maintain IT Infra on Cloud) (Support to be quoted for 10 years)								
9	Installation & Integration								
9.1	HES and MDM Installation								
9.2	HES, MDMS & Consumer Portal Integrations with other existing system								
10	Communication Infrastructure								
10.1	MPLS backhaul (Minimum 2 Service Providers with 100% Redundancy)								
TOTAL									

Note: For penalty calculations the lumpsum amount quoted above for 10 years towards, AMC, FMS for RF, MDMS support, Customer Portal, HES support and Cloud services shall be uniformly divided on each month.

ANNEXURES

- Annexure I - RF Communication Canopy Network Requirement Document
- Annexure II - Single Phase (10-60 A) Group Smart Meter Document
- Annexure III - Three Phase (10-60 A) Group Smart Meter Document
- Annexure IV - LTCT (10-60 A) Group Smart Meter Document
- Annexure VII - Meter Cabin for standalone meter Document
- Annexure V - MCB Specification Document
- Annexure VI - Specs for compact Smart Meter Cabin
- Annexure VIII - Scope Document for ITC of Group Smart Meter Cabin & Standalone meter re-board wiring
- Annexure VIII - RF Canopy-Field Installation Work Requirement Document
- Annexure IX - Field Management System (FMS) requirement Document
- Annexure X - IT Infrastructure with Warranty and Support
- Annexure A - Meter Data Management System (MDMS) Requirement Document
- Annexure B - Customer Portal Requirement Document
- Annexure C - AMI SLA Performance Document