

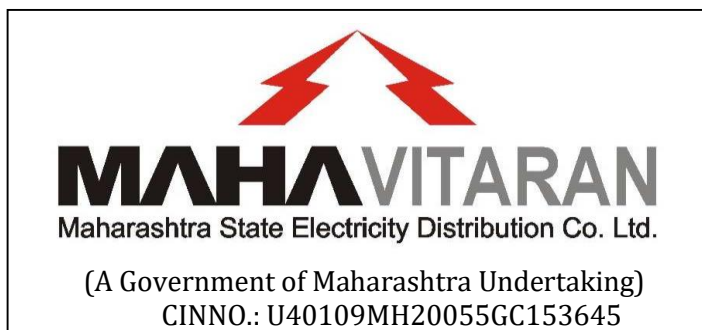
SE/NC/T-01/2024-25

Maharashtra State Electricity Distribution Co. Ltd.

Tender Details		04-06-2024 03:59:15
Tender Code	SE/NC/T-01/2024-25	
Tender Type	Works Tender	
Type Of Bid	Two Bid	
Description	Replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar at Ambad MIDC Area under Nashik U-I Division of Nashik Circle under Maintenance Scheme	
Estimated Cost (In Lakhs)	77.6	
Basis of prices	NA	
Tender Validity	NA	
Delivery Requirement (In Months)	NA	
Tender on rate contract basis	NO	
Tender Fee (In INR)	5000	
GST In INR (@18% on Tender Fee: SAC No.	900	
Total Tender Fee Amount including GST in INR.	5900	
Contact	Shri N T Kale , 7875766020 ,senskurban2019@gmail.com	
Pre-Qualifying Req	As per Tender Document	
Budget Type	Revenue	
Scheme Code	NA	
Scheme Name	NA	
Department	Technical	
Office Type	CIRCLE	
Location Type	Nasik Urban Circle	
Designation	Executive Engineer(Distribution)	
Pre-Bid Meeting Address	Office of the Superintending Engineer, Maharashtra State Electricity Distribution Co. Ltd. (NASHIK Circle) Dist-Nashik, Pin:- 422101	
Bid Opening Address	Online	
Version No	1	
Call for Deviation	NO	
Is Annexure C1 Applicable	NA	
Is Manufacturer Applicable	NO	
Is Trader Applicable	NO	
Minimum % of Offered Quantity	NA	
Is Power Supplier Applicable	NO	
Tender Sale Start Date	05-06-2024 00:00	
Tender Sale End Date	23-06-2024 23:50	
Bid Start Date	05-06-2024 00:05	
Bid End Date	23-06-2024 23:55	
Pre-Bid Meeting Date	07-06-2024 15:00	
Techno-Commercial Bid opening on	24-06-2024 11:00	

Price Bid opening on	Will be declared later
Annexure C1 Opening Date	NA
Winner Selection Date	Will be declared later
Can Bidder Opt EMD Exemption	N

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED



TENDER DOCUMENT

Replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar at Ambad MIDC Area under Nashik U-I Division of Nashik Circle under Maintenance Scheme

(Tender No.:-- SE/NC/T-01/2024-25)

<https://works.mahadiscom.in/eTender/etender>

Office of the Superintending Engineer,
Maharashtra State Electricity Distribution Co. Ltd.
(**NASHIK** Circle)
Dist-Nashik, Pin:- 422101
Email: senskurban2019@gmail.com

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SECTION-I

BID INVITATION

1. Introduction

The Maharashtra State Electricity Distribution Company Ltd. (MSEDCL), represented by the Superintending Engineer,(Nashik Circle) wishes to invite eligible contractors for replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar at Ambad MIDC Area under Nashik U-I Division of Nashik Circle under Maintenance Scheme.

2. Brief description for the Bidding Process:

- a. The Superintending Engineer, (Nashik Circle) on behalf of MSEDCL, invites eligible bidders to submit a bid in accordance with the provisions of this Tender Document. In this Tender Document, the term "Bidder", which expression shall, unless repugnant to the context, include all parties who have submitted bids in response to this Tender Document within the stipulated time frame for submission.
- b. The Bidders shall submit the bids in two parts by following e-tendering process as described in Bid document. First part comprises the technical bid and the second part comprises the Financial/ price bid in accordance with this Tender Document.
- c. Bidder shall not upload Financial/price bid with technical bid documents together. Such bid may be rejected and bidder shall be disqualified from the bidding process.
- d. In terms of the Tender Document, a Bidder will be required to deposit, along with its Bid, a bid security as Earnest Money Deposit (EMD).
- e. MSEDCL will open the technical bids of all bidders and price bids of only technically qualified bidders would be opened.
- f. The Bidder's Names, Bid prices and the presence or absence of the requisite documents and such other details as MSEDCL, at its discretion, may consider appropriate will be announced at the time of opening.

BIDDING INFORMATION

1	Tender Reference No.	SE/NC/T-01/2024-25
2	Sale of Tender Form on weblink	05/06/2024 to 23/06/2024
2	Last date & Time for submission of Bids	23/06/2024, 23:55 Hrs
3	Date of Pre-Bid Meeting	07/06/2024, 15:00 Hrs
4	Date & Time of opening of Technical Bid	24/06/2024, 11:00 Hrs
5	Address for communication and Venue for Tender opening	senskurban2019@gmail.com
6	Tender processing fee	Rs. 5000/- + ----% GST as applicable (Non-refundable & Non Transferable)
7	Earnest Money Deposit (EMD)	Rs. 77,600/- only(can be paid by either DD in favour of MSEDCL or through RTGS in bank account number 120002598909 of Canara bank IFSC Code CNRB0000299 Nashik Road Branch)
8	Performance Bank Guarantee in lieu of Security Deposit	The successful bidder shall furnish the performance Bank guarantee within 14 calendar days from the issue of the award offer letter in the form of an unconditional and irrevocable Bank Guarantee for an amount equal to 10 % of contract value denominated solely in INR payable and claimed at Nashik issued either by a Nationalized or Scheduled Bank located in Maharashtra & acceptable to MSEDCL and valid for the period for 1 year. During contract

		<p>period, at any time the value of PBG should not be less than 10 % of the value of executed works. In case the PBG amount is less than 10% of the value of executed works the contractor will have to submit additional PBG so as to make the total value of PBG at least equal to 5% of value of the executed quantity</p>
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Note:

- The date & time of opening of Price Bid will be informed by an e-mail.**
- The Tender valid for 1 year.**
- Eligible bidders shall upload the Bids through e-tender portal of MSEDCL: <http://works.mahadiscom.in/eTender/etender> details can be obtained from <https://www.mahadiscom.in>.

SECTION-II

INSTRUCTION TO BIDDERS

The **Superintending Engineer (Nashik Circle)**, on behalf of MSEDCL invites bids from eligible bidders for replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar in Ambad MIDC Area under Nashik U-I Division.

Scope of Contract:

The Scope of contract is as below:

- a) To carry out replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar in Ambad MIDC Area under Nashik U-I Division on full turnkey basis.
- b) Material shall be supplied by the contractor at the prevailing cost data of MSEDCL together with price indexing, if applicable.
- c) Detailed execution Plan for timely implementation of work is to be submitted by the contractor immediately after allotment of work.
- d) The selected bidder shall have his Office within the jurisdiction of the works for attending the emergency services.
- e) Bids shall be complete and cover all Works described in the price schedule. Any item of works required for complete usable system shall be deemed to be included in bidder's scope irrespective of whether it is specifically mentioned or not in the price schedules, the same can be brought to notice of Tendering authority during Pre-Bid meeting.
- f) Bidder should note that obtaining permissions from statutory bodies wherever required for execution of works, shall be entirely in bidder's scope. However, MSEDCL will extend its support for obtaining these permissions on best effort basis.
- g) Full bids, or bids which do not cover the entire scope of the works will be treated as incomplete and "not responsive" to the terms and conditions of bidding and are liable to be rejected.

1. Eligibility and qualifying criteria :

The Bidder shall meet following minimum eligibility criteria for participation in the bid.

(a) Technical Qualification:

- (i) The bidder should have at least 3 year experience as a licensed Electrical contractor in construction, erection, testing, commissioning and maintenance of LT/HT/DTC/Mini pillar work.
- (ii) All the components of electrical works mentioned above should be in successful operation for at least one (1) year as on date of submission of bid;
- (iii) Work experiences of the bidder as per above in (ii) shall be considered only if the works have been executed under Govt./semi-Govt./autonomous body of Central/State Govt./Electricity Power Utility/Public works, Distribution franchisee appointed by MSEDCL and under Dedicated Distribution Facility (DDF) scheme work approved by MSEDCL. The work experience under DDF scheme will be considered only if approved by Competent Authority in MSEDCL i.e. concerned Executive Engineer / Superintending Engineer.
- (iv) The Bidder should deploy sufficient man power for carrying out the maintenance work, however the contractor should provide the manpower at least as mentioned in Annexure-A
- (v) The Bidder should have required Tool & Plants for these works, minimum requirement for which is as per Annexure-B.
- (vi) The Bidder should have valid GST/PAN Registration Certificate.
- (vii) The Bidder should have valid PF Registration
- (viii) The Bidder should have taken Group Insurance Cover for his Employees.

(b) Financial Qualification:

- (i) The Bidder should have executed similar works in any sector during the last 5 financial years with minimum
One work order / contract for equivalent to amount of Rs. 10 Lakhs

Or

Two work orders / contracts equivalent to amount of Rs. 5 Lakhs each

Or

Three work orders / contracts equivalent to an amount of Rs. 3 Lakhs each.

- (ii) The bidder should have an average annual financial turnover of Rs.15 Lakhs during last consecutive 3 financial years i.e. 2021-22, 2022-23, 2023-24.
- (iii) The bidder shall have a **positive net worth**.

2. Instructions to bidders:

- (i) (a) All bids must be accompanied by EMD as specified in the Tender Notification (Section-I) and uploaded on or before the prescribed date and time given in Section-I of this document. Bids submitted without EMD will be summarily rejected. Bidder shall upload the required documents through electronic mode only as part of their proposal.
- (b) The Bidder shall also upload copies of
 - (i) Central and State GST registration Certificate
 - (ii) PAN issued by appropriate authority.
 - (iii) Income Tax returns of previous three assessment years.
- (ii) The Bid uploaded by the Bidder and all correspondence and documents in relation to the bid shall be in English Language. For more details refer Clause 6 of this section.
- (iii) Bidders are not allowed to participate in the bid on consortium basis.
- (iv) Bidder should upload only those documents which are asked to be uploaded in the Tender document.
- (v) Technical proposal which are submitted by non-qualified bidder or which are evaluated to be “non-responsive” will be rejected and shall not be considered for detailed technical evaluation.

- (vi) Only bids conforming to minimum eligibility criteria and found to be technically responsive will be taken up for further evaluation. During evaluation of Bids, MSEDCL, may, at its discretion, ask the bidders for clarification of their proposals.
- (vii) The bidder shall quote their rates considering market and site condition and variation in price index etc. The quoted rates by the bidder shall remain the same.
- (viii) MSEDCL will not entertain any claim at any stage from successful bidder on the plea of not having sufficiently acquainted himself as to site condition before submitting price bid etc.
- (ix) Financial bid of the technically qualified bidders to be opened on selected date and the place intimated to technically qualified bidders through e-mail.

3. The Letter of award shall be issued to the L-1 bidder.

- 4. The LoA/work order is not transferable. Subletting is not allowed.
- 5. MSEDCL reserve rights to reject or accept any or all bids wholly or partly without assigning any reason on the ground considered advantageous to MSEDCL.

6. Language of Bid:

The Bid shall be uploaded in English Language. Supporting documents and printed literature which are in another language shall be accompanied by an accurate translation in the English language duly authenticated and certified by the bidder.

7. Documents Comprising the Bid:

The Bid prepared by the Bidder shall be uploaded in 'Two parts viz. Technical Bid and Financial Bid. Bids shall be electronically submitted online in the E-tender platform and the documents shall be scanned and uploaded along with Bid.

Part-I: Technical Bid

Bidder shall submit relevant certificates to demonstrate the financial, technical capabilities & eligibility criteria prescribed under this Tender Document. In this regard the Bidder shall upload following minimum documents/ information for technical and financial evaluation.

- i. Firm's Profile at a Glance(Appendix-I(A))
- ii. Financial Status (Appendix-I(B))
- iii. Experience (Appendix-II)
- iv. Form of Earnest Money Deposit / Bid Security (Appendix-IV)

Part-II: Financial bid

- (i) The bidder shall submit the price schedule as furnished in the tender document. Each entry in the price bid form should be filled.
- (ii) Prices shall be quoted in Indian Rupees only.
- (iii) For Technical specifications and Cost Data, Please refer MSEDCL website i.e. <https://www.mahadiscom.in/supplier/#>.
- (iv) Any Financial Bid uploaded with conditions different from the tender specification will be rejected.

8. Earnest Money Deposit (E.M.D.):

- a) The Bidder shall furnish along with the Technical Proposal, an E.M.D. of Rs. 77,600 (Rs. Seventy Seven Thousand Six Hundred Only). Payable either by DD in favour of MSEDCL or in the form of account transfer through RTGS/NEFT in Account No. 120002598909 of Canara bank IFSC Code CNRB0000299 (Nashik Road Branch) or in the form of Bank Guarantee as per Appendix-IV.
- b) Any bid not accompanied by an acceptable E.M.D. shall be rejected by MSEDCL as non-responsive.

- c) The E.M.D. of the successful bidder will be returned when the bidder has signed the Contract Agreement and furnished the required Performance Bank Guarantee.
- d) The E.M.D. of the unsuccessful bidders will be returned as promptly as possible, after finalization of Work Order.
 - (i) If a Bidder withdraws his Bid during the period of Bid validity Specified by the Bidder on the Bid Form its E.M.D. will be forfeited.
 - (ii) If the successful Bidder fails to furnish performance security in accordance with Clause 21 of this Section - II of this Section, its EMD will be forfeited.

9. Period of Validity of Bid:

- a) Bids shall remain valid for 60 days after the date of opening of Technical Bid. A Bid valid for a shorter period shall be rejected by MSEDCL as “non-responsive”.
- b) In some circumstances, MSEDCL may solicit the Bidder’s consent to extend the period of validity. The consent for extension, if any, shall be given in writing. The EMD provided under clause (9) of this Section – II above shall also be suitably extended. A Bidder extending the bid validity will not be permitted and modify its original bid.

10. Amendment to Bid document:

- a) At any time prior to the deadline for submission of bids, MSEDCL may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bid documents by issuing addenda.
- b) Any addendum thus issued shall be treated as part of the Bid documents pursuant to Sub-Clause (a) above and shall be communicated through the website: - <http://works.mahadiscom.in/eTender/etender>

11. Format of Bid

- (i) The bid shall be signed by a person or persons duly authorized to sign on behalf of the bidder. The bidder shall submit declaration to confirm that

he has read and accepted all the contents and conditions contained in entire bid document including financial bid containing price proposal.

- (ii) Bidder must give clear page numbers to each page of his offer and a detail index should be provided indicating the page numbers for each relevant document comprising his offer. Checklists for documents and data to be furnished by the Bidders have been given in the Bid document separately for Technical Proposal and Price Proposal. Bidders must fill in these checklists clearly indicating whether corresponding document is submitted or not and if submitted, the relevant page number. If a document is not found at the corresponding page number given in the index, it will be concluded that the said document is not submitted by the Bidder.

12. Mode of submission of bids:

- (i) The Bids shall be submitted electronically through the e-tender portal only.
- (ii) Bids sent by any other mode like in person, post, e-mail will not be considered & rejected.
- (iii) MSEDCL may at its discretion require any Bidder to submit the hard copy of any of the document submitted on e-tender platform.

13. Submission of Bids:

The bidder shall scan all the documents forming part of the bidder's Technical Proposal and price proposal, and convert the same into PDF format. The size of the Technical Proposal/Price Proposal in PDF format shall not exceed 5 MB. In case the size of the PDF document exceeds 5 MB, the PDF document shall be split up into suitable number of files of size of 5 MB or less each. There after each file shall be numbered as "Tech (Number & Name of Document).pdf". Then these files shall be digitally signed using the software provided by MSEDCL during registration of the bidder. The digitally signed document files shall be uploaded by the bidder on the "e-tendering" web site of MSEDCL.

14. Deadline for Submission of Bids:

- (i) Bids must be uploaded by the bidder through e-tender process not later than the time and date specified in the invitation for Bids.
- (ii) The MSEDCL may, at the discretion, extend this deadline for submission of bids by issuing an addendum.

15. Acceptance or Rejection of Bids:

- (i) MSEDCL reserves the right to accept or reject any bid or all the bids and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability or any obligation to inform the affected bidder or bidders of the grounds for the said action.
- (ii) Incomplete bid or Bid with incomplete information/Documents or bid which is not substantially responsive as determined by MSEDCL is liable for rejection.

16. Preliminary Examination of Price Bid:

Upon examination of bid, Arithmetical errors found if any will be rectified on the following basis.

- (i) 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.
- (ii) If there is a discrepancy between words and figures, the lower of the two will prevail. If the Bidder does not accept the correction of errors, his bid will be rejected.

17. Opening and Evaluation of Proposals:

a) Opening of Pre-Qualification cum Technical Proposals:

- (i) MSEDCL will open the Technical Proposals on the date and time designated in the E-Tender Notice/ Bid Document.
- (ii) The time and date of the opening of the Price Bids will be informed through an email to technically qualified bidders.

b) Examination of Technical Proposals and Determination of Responsiveness:

- (i) A technical/ tender committee shall evaluate the Bids submitted by bidders for a detailed scrutiny. During evaluation of Bids, MSEDCL, may, at its discretion, ask the bidders for clarification of their proposals.
- (ii) Notwithstanding the above, MSEDCL reserves the right to accept minor deviations which do not materially affect the substantial responsiveness of the Bid, whose rectification would not affect unfairly the competitive position of other bidders, and which can be rectified after award of contract without change to the price, scope, quality or performance of the Works.

c) Clarification of Technical Proposals and Contacting MSEDCL:

- (i) MSEDCL can seek any clarification / document required for technical qualification before opening the Price Bid. The bidder to submit the clarification regarding the documents submitted with the Technical Proposal, same shall be uploaded on the portal or to be submitted by e-mail.
- (ii) Any effort by the bidder to influence MSEDCL in evaluation of Technical Proposals, bid comparison or MSEDCL decisions on acceptance or rejection of bids may result in the rejection of the bidder's bid and forfeiture of the bid security in accordance with the provisions.

d) Financial Evaluation:

The "Price bids" of only those bidders shall be opened, who qualifies the **"Prequalification cum Technical Bid"**. The price bids of the eligible bidders will then be evaluated in the manner provided below.

e) Determination of the Lowest quoted price against the scope of work

- (i) The evaluation for lowest offer will be done based on the percentage rates quoted by the Bidders discretion, if found necessary, may negotiate the offer with "L-1 bidder".
- (ii) In case of rate quoted in words and figure are different, the lower of the two which is beneficial to MSEDCL shall be considered.

18. Notification of Award

- (i) Prior to expiration of the period of bid validity prescribed by MSEDCL, MSEDCL will notify the successful bidder, that his bid has been accepted.
- (ii) This notification of award will constitute the formation of the Contract. Further, the name of appointed contractors will be hosted on MSEDCL website.
- (iii) Upon notification of award as above MSEDCL will promptly notify the other bidders that their bids have been unsuccessful.
- (iv) After award, the work orders will be issued separately to the appointed agencies as and when required for carrying out work through portal.

19. Signing of Contract

- (a) Along with notification of award, MSEDCL will send the bidder the Form of Contract, incorporating agreement between the parties.
- (b) Within 14 days of receipt of the Letter of Award, the successful bidder shall sign the Form of Contract on Stamp Paper (non-judicial) borne by the bidder as per the rate specified in Bombay Stamp Act 1958 and submit it to MSEDCL as per the format provided separately.
- (c) The incidental expenses of execution of agreement shall be borne by the successful Bidder(s).

20. Performance Bank Guarantee (PBG) in lieu of Security Deposit:

- a) The successful bidder shall furnish the performance Bank guarantee within 14 calendar days from the issue of the award offer letter in the form of an unconditional and irrevocable Bank Guarantee for an amount of **10 % of Contract Value** denominated solely in INR payable and claimed at Nashik issued either by a Nationalized or Scheduled Bank located in Maharashtra and valid for the period for 1 year from the date of award.
- b) The defect liability period of the works including the material shall be 1 year from the month of commissioning which includes free replacement of defective/ non-working/ faulty/ malfunctioning allied materials within

Contractual period till completion **of guarantee period of 1 year from the date of its commissioning.**

- c) **Prior to making a claim under the Performance Bank Guarantee**, MSEDCL or MSEDCL representative shall, in every case, notify the Contractor stating the nature of the default for which the claim is to be made.

21. Forfeiture of Performance Bank Guarantee

- (a) **The performance Bank Guarantee** submitted in lieu of security deposit specified in the clause 21 will be liable to be forfeited if
- (i) The contractor fails to initiate the works after issuing of work order or
 - (ii) The progress of works lagging behind the desired progress of works as mentioned in work order or
 - (iii) The contract is terminated due to the reasons attributed to the contractor or
 - (iv) The quality of material is not as per standard or if the works is not carried out as per standard method of construction, or not observing the rules and regulations.
- (b) The performance bank Guarantee shall not be forfeited unless reasonable opportunity of being heard has been given to the party.

22. Corrupt or Fraudulent Practices

- a) The Maharashtra State Electricity Distribution Company Ltd requires that the bidders observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, MSEDCL defines for the purposes of this provision, the terms set forth as below:
- (i) **“corrupt practice”** means behaviour 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 MSEDCL, 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 MSEDCL of the benefits of free and open competition.

- b) MSEDCL will reject a proposal for award if it finds out that the bidder recommended for award is engaged in corrupt or fraudulent practices in competing for the contract in question;
- c) MSEDCL will declare a firm ineligible, either indefinitely or for a specific period of time, for award of an MSEDCL contract if at any time if it is found that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, an MSEDCL Assignment.

23. Change in Laws and Regulations

If, after the date seven (07) days prior to the date of Bid Opening, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed in India (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract. However, these adjustments would be restricted to direct transactions between MSEDCL and the Contractor and not on procurement of raw materials, intermediary components etc. by the Contractor for which MSEDCL shall be the sole judge. Notwithstanding the foregoing, such additional or reduced costs shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable to the Contract Agreement.

SECTION – III

GENERAL CONDITIONS OF CONTRACT (GCC)

The following are the General Conditions of Contract.

In this Contract, the following terms shall be interpreted as indicated:

1. Definitions

In the Contract (as defined below) the words and expressions defined below shall have the meanings assigned to them, except where the context requires otherwise:

- i. **"Commencement Date"** means the date of issue of award order by the concern Superintending Engineer.
- ii. **"Commissioning"** means completion of work & putting the facility/ System in the successful operation. The term "Commissioning" is synonymous with the term "Energization", as commonly used in the Industry.
- iii. **"Contract"** means the agreement if any to be entered into by MSEDCL with the contractor and shall include these Conditions of Contract, MSEDCL Requirements, the Tender, the Contractor's Proposal, the Schedules, the Letter of Award and such further documents as may be expressly incorporated in the Letter of Award or Contract Agreement (if completed) and any further conditions which may be specifically agreed to between the parties as forming the part of contract.
- iv. **"Contract Period"** means the period from the Commencement Date to the date of completion of award period.
- v. **"Contract Price"** means the sum stated in the Letter of award as payable to the Contractor for the execution, testing, commissioning of the Works and the remedying of any defects in accordance with the provisions of the Contract, including

guarantee of the Works and plant during the defects liability period.

- vi. **“Contractor/ Agency”** means the entity supplying the goods and services under this contract.
- vii. **“Contractor's Equipment”** means all machinery, apparatus and other things (other than Temporary Works) required for the execution, completion and guarantee of the Works and the remedying of any defects, but does not include Plant and Equipment, Materials, or other things intended to form or forming part of the Permanent Works.
- viii. **“Contractor's Representative”** means the person (if any) named as such in the Contract or other person appointed from time to time by the Contractor.
- ix. **“Defect”** means any part of the Works not completed in accordance with the Specifications and terms and conditions of Contract, including any Works or part thereof which becomes faulty during the Guarantee (Defects Liability) Period.
- x. **“Defect Correction / Liability Period”** means the period for correction of the Defect by the Contractor, beginning from receipt of the Notice of Defect from MSEDCL by the Contractor and extending up to days thereafter.
- xi. **“Defect Notice Period”** means the period after observation of the Defect within which MSEDCL should notify the Contractor about the Defect. Notification of the Defect will normally be made immediately after its observation.
- xii. **“Appointed Contractor”** means the person whose Bid has been accepted by MSEDCL and the legal successors in title to such person, but not (except with the consent of MSEDCL) any assignee of such person.
- xiii. **“Employer's Requirements”** means the description of the scope, standards, design criteria (if any) and program of work, as included in the Contract, and any alterations and modifications thereto in accordance with the Contract. The

Conditions of Contract, Technical Specifications, Drawings, Appendix to tender and all other information contained in the Bid documents form an integral part of MSEDCL Requirements.

- xiv. **"Final Work Completion Certificate"** means the certificate issued by MSEDCL Representative upon satisfactory completion of the Guarantee responsibilities.
- xv. **"Guarantee"** means the supply of all things necessary so as to remedy any defects in workmanship, materials, plant and equipment and guarantee proper operation of the constructed facilities for the period of 1 year after completion of the Works, all in accordance with the conditions of the Contract.
- xvi. **"Guarantee Period"** means the time as stated in the Appendix to Tender for guaranteeing the Plant, Equipment, and Materials against defects in materials, workmanship and manufacturing defects, calculated from the date upon which the entire Works (completion and commissioning of all the useful Sections in all respect) have been completed as certified by MSEDCL Representative. The term "Defects Liability Period" is synonymous with the term "Guarantee Period".
- xvii. **"Inspecting Authority"** shall mean any Engineering person or personnel authorized by MSEDCL to supervise and inspect.
- xviii. **"Letter of Award / award"** means the formal acceptance by MSEDCL of the tender. The term "Letter of Award / award" is synonymous with the term "Notice of Award / Award".
- xix. **"Materials"** means things of all kinds (other than Plant) to be provided and incorporated in the Permanent Works by the Contractor, including the supply-only items (if any) which are to be supplied by the Contractor as specified in the Contract.
- xx. **"MSEDCL" means** Maharashtra State Electricity Distribution Company Limited; a company incorporated under the Company's Act 1956 after the restructuring of the erstwhile Maharashtra State Electricity Board having its registered office at Plot No. G-9, Prakashgad, Bandra (East), Mumbai 400 051.

- xxi. **"MSEDCL Representative"** means the person appointed by MSEDCL to act as Representative for the purposes of the Contract and named as specified, or other person appointed from time to time by MSEDCL and notified as such to the Contractor.
- xxii. **"Rate Contracts"**: The Rate Contract is a contract under which, during the period of its currency, the contractor engages to supply materials on demand, irrespective of quantity, at fixed unit rates or prices, within a given period of the receipt of such demand.
- xxiii. **"Site"** means the places provided by MSEDCL where the Works are to be executed at the locations identified and to which Plant/substation and Materials are to be delivered and any other places as may be designated in the Contract as forming part of the Site.
- xxiv. **"Specifications"** mean and include collectively all the terms and stipulations contained in the bid document including the Conditions of Contract, technical provisions and annexure thereto, addenda and lists of corrections, amendments and clarifications, as well as any variations issued by MSEDCL Representative during the course of the Contract.
- xxv. **"Taking-Over Certificate"** means a certificate issued by the Engineer when the Works, have been completed in accordance with the Contract.
- xxvi. **"Works"** means carrying out maintenance as per the instructions received from tender accepting authority/representative of MSEDCL for said works

2. Contract Agreement

A Contract Agreement shall be provided separately.

3. Priority of Documents

The documents forming the Contract are to be taken as mutually explanatory of one another. If there is an ambiguity or discrepancy in the documents,

MSEDCL shall issue any necessary clarification or instruction to the Contractor, and the priority of the documents shall be as follows:

- i. The Contract Agreement;
- ii. The Letter of Award;
- iii. Work order issued to appointed agencies;
- iv. The Bid (accepted Price Proposal);
- v. The Conditions of Contract, ;
- vi. MSEDCL Requirements (including Specifications and Drawings); and
- vii. The Contractor's Proposal (Technical Proposal, including completed Schedules).

4. Communication with bidder:

- (i) Wherever provision is made for giving or issue of any notice, instruction, consent, approval, certificate or determination by any person, unless otherwise specified such communication shall be in writing and shall not be unreasonably withheld or delayed.
- (ii) Wherever provision is made for a communication to be "written" or "in writing", this means any hand-written, type-written or printed communication.
- (iii) If the Contractor wants to submit any claim, reply to termination notice, any grievance regarding terms & conditions of Contract etc., he should submit the same to the Superintending Engineer only, and not any other officers, by hand delivery and obtain the acknowledgement of the same.
- (iv) In case of works related issues such as outages, materials, ROW, works site clearance, line/equipment out permits etc. the Contractor should hand over the same to the concern Executive Engineer only, and not any other officers, by hand delivery and obtain the acknowledgment of the same.
- (v) If the Contractor does not get any response from the concern officers, he should send his correspondence to the Chief Engineer (Dist.), Mumbai on his mail id cedist.msedcl@gmail.com.
- (vi) All correspondence, notices or written orders to be given to the Contractor by MSEDCL or MSEDCL Representative, shall be sent by air/

mail on the mail address given by the Contractor in the bidding document.

- (vii) Works review coordination meetings between MSEDCL Representative and Contractor shall be conducted on a monthly basis or as and when required by MSEDCL, at locations decided by MSEDCL, to review the Contractor's progress and plans for completing the remaining Works, to deal with matters affecting the progress of the Works, and to decide on responsibility for actions required to be taken. MSEDCL Representative shall prepare the Minutes of Meeting and provide copies for the records of all attendees. Decisions taken and instructions issued during the coordination meetings, as recorded in the Minutes, shall have the same force and effect as if they were written communications

5. Compliance with Statutes, Regulations and Laws

The Contractor shall, in all matters arising in the performance of the Contract, comply with, give all notices under, and pay all fees required by the provisions of any national or state statute, ordinance or other law, or any regulation of any legally constituted public authority having jurisdiction over the Works. The Contractor shall obtain all permits, licenses or approvals required for implementing, testing and commissioning any part of the Works in reasonable time taking account of the times for completion of the Works, and the costs of any such permits, licenses or approvals shall be included in the Contract Price for the relevant Activity. MSEDCL and the Contractor shall comply with the laws of India and the State of Maharashtra.

6. Labour laws

The Contractor shall comply with all the relevant labour laws applying to his employees, and shall duly pay and afford to them all their legal rights. The Contractor shall require all such employees to obey all applicable laws and regulations concerning safety at work. Contractor shall deposit the labour cess as per Building and Other Constructions workers, Welfare Cess Act 1996 to State Government (if applicable) otherwise same shall be deducted from RA (Running Account) bill and shall be deposited to Government Authority.

7. Manner of Execution

Execution of work shall be carried out in the approved manner as outlined in the technical specifications or where not outlined, in accordance with relevant BIS/ Indian Standard Specifications, to the reasonable satisfaction of MSEDCL.

- (i) The Contractor should successfully complete the works within time frame set out by MSEDCL. MSEDCL shall not be responsible for any loss or damage of any material when carrying out work **as per work order**.
- (ii) Undertake necessary activities during the guarantee period as set out in this Contract.

8. Standards

The materials / spares supplied under this contract shall confirm to the Standards mentioned in the Technical specification as per the MSEDCL requirements. The material supplied by the Contractor under the contract shall be fully insured by the Contractor in Indian Rupees against any loss or damage incidental to manufacture or acquisition, transportation, storage till handing over the complete system to the beneficiary and the contract price shall include the same.

9. Transportation on material

- (i) If major materials required for maintenance works is provided by MSEDCL then in such case transportation charges from the Division store to work site and crediting of old/damaged material to Division store are as per estimate.
- (ii) If major materials required for maintenance works is provided by the Agency then in such case transportation charges up to work site and crediting of old/damaged material to Division store are as per estimate.

10. Insurance on material during transit

The insurance is as per estimate.

11. Payment:

Payment will be made to the Contractor as per Section III, clause no. 20.

12. Sub-contracts:

Subcontract is not allowed.

13. Notice to Correct

If the contractor fails to carry out any of the obligations, or if the Contractor is not executing the works in accordance with the Contract, the MSEDCL may give notice to the contractor requiring him to make good such failure and remedy the same within a specified reasonable time.

14. Removing from award for default:

The Appointed Agencies have to execute work as per the Work Order(s) issued by MSEDCL. MSEDCL without prejudice to any other remedy for breach of contract, by written notice of default sent to the Contractor, terminate the contract (award) in whole or part:

(a) In case the contractor defaults on following events on three successive occasions, the contract order is liable for cancellation of award after issue of termination notice.

(i) If Appointed Agencies do not execute the work allotted to them as per the Work Order issued by MSEDCL or his representative within stipulated time.

OR

(ii) If Appointed Agencies delay in the execution of the work allotted to them as per the Work order issued by MSEDCL or his representative AND does not efficiently utilize the power shutdown allotted for maintenance work.

OR

(iii) If the assets serviced by Appointed Agencies under this Contract fails/ breaks down within the guarantee period.

OR

(iv) If the Appointed Agencies do not follow statutory rules & regulations related to Safety/ Construction & Maintenance practices / Labour Laws as issued by MSEDCL & other statutory authorities e.g. CEA/ Electrical Inspectorate, etc.

OR

(v) If the Appointed Agencies deploy less and/or unskilled manpower than specified under this tender document.

- (b) If found executing the works through subcontractor.
- (c) If contractor fails to replace substandard material or to rectify poor quality of works within 2 weeks from notice given to him.
- (d) If the Contractor/ Agency, in the judgment of MSEDCL has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

15. Force Majeure

Notwithstanding the provisions of conditions of contract, the Contractor shall not be liable for Penalty or termination for default, forfeiture of his/ her performance security, if and to the extent that, its delay in performance or other failure to perform its obligations is the result of an event of Force Majeure.

For purposes of this Clause "Force Majeure" means an event beyond the control of the Contractor and not involving the Contractor/ Agencies fault or negligence and not forcible. Such event may include, but are not limited to, acts of MSEDCL either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Contractor shall promptly notify MSEDCL in writing of such conditions and the cause thereof. Unless otherwise directed by MSEDCL in writing, the Contractor shall continue to perform its obligations as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure.

16. Debarring the Agencies from business dealing with MSEDCL

In case of failure on part of successful bidder at any stage of tendering and execution, the bidder/ contractor may be debarred as per MSEDCL debar policy provided on MSEDCL website link. (<https://www.mahadiscom.in/supplier/wp-content/uploads/2018/06/Final-Booklet-Single-Page.pdf>)

17. Settlement of Disputes

- (i) All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the contractor to the Superintending Engineer.
- (ii) Three Member Dispute Resolution Committee shall be constituted with one member representing the bidder & the two members of MSEDCL (including one member from Account Department) by concerned Superintending Engineer.
- (iii) The Committee shall, within 120 days after receipt of the contractor's representation, make and notify decisions of all matters referred to by the contractor in writing. The decision of Committee will be binding on both parties.

18. Contractor Obligations:

- (i) The Contractor is obliged to work closely with MSEDCL staff, act within its own authority and abide by directives issued by MSEDCL and implementation activities.
- (ii) The Contractor will abide by the job safety measures given on MSEDCL web site(<https://www.mahadiscom.in/consumer/wp-content/uploads/2018/03/SurakshaDeepSurakshaPustika.pdf>) as amended time to time and also statutory directions in this regard and will free MSEDCL from all demands or responsibilities arising from accidents or loss of life the cause of which is the Contractor negligence. The Contractor will pay all indemnities arising from such incidents and will not hold MSEDCL responsible or obligated.
- (iii) The Contractor is responsible for managing the activities of its personnel and will hold itself responsible for any misbehaviour.
- (iv) The Contractor will treat all data and information about MSEDCL, obtained in the execution of his responsibilities, as confidential in strict confidence and will not reveal such information to any other party without the prior written approval of MSEDCL.
- (v) MSEDCL, in no case will be responsible for any accident fatal or non-fatal, caused to any workman or outsider in course of transport or

execution of work. All the expenditure including treatment or compensation will be entirely borne by the Contractor. The Contractor shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations.

- (vi) The Contractor should provide its employees photo identity cards to be properly displayed during duty hours. No extra payments shall be claimed by the contractor or its deployed staff for such item.
- (vii) The Contractor should carry out **work** strictly in accordance with the Terms & Conditions of the contract and without any defects.
 - a. The work relating to maintenance schedule should be executed without any delay as per the implementation schedule mentioned in the work order.
 - b. MSEDCL reserve the right to depute engineer officers from his/ her office for the supervision and inspection at the time of implementation of the contract. The bidder should submit report to the concerned engineer officer regarding the implementation of the contract.
 - c. If any defect is noticed within guarantee period of 1 year after supply, same will have to be replaced by the Contractor at his own expenses. If contractor does not replace or correct it, MSEDCL will get that equipment replaced or corrected from any other contractor/ agency at the cost of the contractor under whose guarantee period equipments are.
 - d. The successful bidder should indicate the name and address of their nearest centre that can take up immediate action on complaint.

19. Implementation schedule and process :

The work should be implemented by the Contractor as per the following implementation schedule: -

- (i) The work as per schedule given in work order under the award order shall be carried out by Agency and will enter on MSEDCL web portal with photographs of works attended. The Contractor shall complete the work

as per the schedule of works given in the work order and within the outage period .

- (ii) MSEDCL will approve the works attended by agency after due verification & same will be intimated through system for further payment.
- (iii) If Contractor fails to perform the activities within time period from intimation, the Notice to Correct Work shall be issued along with extended time to complete the work and penalty will be levied as per Tender condition.
- (iv) In spite of notice to correct works, if Contractor fails to perform/ improve the progress of the activities, the notice of termination of the work shall be issued.
- (v) In spite of notice to correct work, work does not get attended in extended time period; MSEDCL will get the work done by some other appointed agency or any other contractor.
- (vi) The Contractor should take photographs of works carried out along with the contractor representative & MSEDCL local representative and same are to be uploaded in the system.

20. Payment and Penalty

(i) Billing Procedure

- a) The works as per work order shall be carried out by Agency and will be entered on MSEDCL web portal with photographs of works carried out. The contractor should submit online request for JM to concerned Executive engineer, O & M division under intimation to Section Engineer.
- b) The concerned Section Engineer should carry out the JM and point out defects if any, to the Contractor preferably within 3 days from the date of request of JM by contractor.
- c) After rectifying defects if any, the contractor will submit Invoice document to the concerned Executive Engineer under intimation to Section Engineer for JMC of rectified work and will upload the same on web portal.

- d) The Sub Divisional officer (O&M) after due scrutiny will clear the JMC and forward to the Executive Engineer within 2 days from the receipt of the JMC.
- e) The Executive Engineer, O&M Division will submit technically scrutinized & audited Invoices to WM Section of Head Office and WM Section will transfer money to the contractor's account within 7 days from the receipt of such invoices from Executive Engineer (O&M).

(ii) Payment procedure:

The payment will be disbursed against the Bills submitted by the Agency as specified under:

- (a) **100%** of the order value for labour component against material supplied by MSEDCL for carrying out **work** as per the rates applicable in the yearly rate contract, along with taxes, within 30 days of submission of necessary documents as per check list in duplicate.
- (b) **90%** of the order value of material as supplied by agency/contractor for Supply, Erection, Testing & Commissioning of Line / Cable materials/Substation equipments, within 30 working days, upon submission of necessary documents as per check list in duplicate, after the on-site verification, inspection, by Concerned Sectional Officer/ any authority representative of MSEDCL, for which the claim is received. The balance 10% of payment against supply, installation and commissioning of Line / Cable materials excluding Taxes shall be released on completion of guarantee period.
- (c) The details of all the maintenance works carried out should be fed through mobile-app/ IT system developed by MSEDCL.

(iii) Penalty for Delay:

- a. The Contractor is required to complete the work within the stipulated time as mentioned in Work Order as given by the concern Officer-in-charge. In case the work is not completed within time then the penalty @ 0.5 % per week of delayed part up to maximum of 10% of Contract value will be imposed.
- b. If the contractor fails to provide necessary Spares and Consumables, Tools & Plants and is found working in violation of Safety and other

statutory Regulations, penalty of Rs 1,000/- (Rupees One thousand only) per such instance shall be levied, separately.

- c. The Penalty for the delay applicable to activities will not be attributed to the contractor subject to the condition specified in the Section-III, GCC. "Force Majeure" and the mutually agreed genuine causes brought on the records thereof by the contractor.
- d. The delay attributable to MSEDCL will not attract any penalty.

(iv)

Penalty for non-executed work:

In case the contractor does not execute allotted work as per the hours specified in penalty clause No. 20 (iii) and read with clause No.14 then Work Order may be cancelled and MSEDCL will reserve the right to execute the work from the another contractor at the RISK & COST of the defaulter contractor.

SECTION - IV

FORM AND APPENDIX OF TECHNICAL AND PRICE PROPOSAL

Form of Technical Proposal

(On Bidder's Letterhead)

To,

Maharashtra State Electricity Distribution Company Ltd.

Represented by the:

Superintending Engineer,

Maharashtra State Electricity Distribution Co. Ltd.,

Nashik Circle, Dist .Nashik, Pin 422101

Name of Contract: Replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar at Ambad MIDC Area under Nashik U-I Division of Nashik Circle under Maintenance Scheme.

Sir,

We have understood and checked these documents and have not found any errors in them. We accordingly offer to attend ***Replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar at Ambad MIDC Area under Nashik U-I Division of Nashik Circle under Maintenance Scheme*** with guarantee period of 1 Year, (hereinafter referred to as the contract of works) and as described in the Bid document "Full Turnkey Contracts" as well as remedy any defects and guarantee the entire completed facilities against any defects in materials, workmanship and equipment for period specified in Bid Documents, after completion, fit for its purpose in conformity with these documents and the enclosed Proposal.

We hereby declare that we accept all the terms, conditions, specifications and all other matters set forth in sections and agree that these will form a part of the Contract if we are selected for award of award.

We have submitted price bids for Tender No. SE/NC/T-01/2024-25. We have submitted complete details of our technical and financial capabilities for establishing our eligibility to undertake works on all these tenders. However we hereby confirm that we accept that the MSEDCL decision on our eligibility to undertake the works in accordance with the requirements set out in the Invitation for Bids will be final and binding on us, and that we will not raise any objection

should MSEDCL decide to reject our Bid for this tender on the grounds that we do not satisfactorily meet the minimum qualifying criteria.

This Bid and your written acceptance shall be the basis for Contract Agreement. We understand that you are not bound to accept the lowest or any bid you receive or assign any reason thereof for the rejection.

We agree to keep this bid open for acceptance for a period of 60 days from the date of opening thereof and also agree not to make any modification in the terms and conditions on our own accord. We further agree to sign an Agreement to abide by the Conditions of Contract and carry out all works according to specific clauses and work order.

We accept that Dispute Resolution procedures, General Conditions of Contract, will be used for settling any disputes that cannot be mutually agreed with MSEDCL.

Yours faithfully,

Signature & Seal of company,

in the capacity of duly authorized to sign bids for and on behalf of

Address:

CHECK LIST OF DOCUMENTS ENCLOSED

Sr. No.	Name of Documents Attached	Remark <i>(Tick Yes if enclosed or Tick No if not enclosed)</i>	
		Yes	No
1.	Firm's Profile at a Glance Appendix-I(A)	Yes	No
2.	Financial Status Appendix-I(B)	Yes	No
3.	Self-Certification of No Bar/ non-failure/ blacklisted	Yes	No
4.	Experience for maintenance, supply and commissioning Appendix-II	Yes	No
5.	Form of Earnest Money Deposit / Bid Security Appendix-IV	Yes	No
6.	Power of attorney in the name of the person authorized to sign Bid document	Yes	No
7.	Receipt of Payment made by the bidder against the Bid Fees	Yes	No
8.	Tender Document signed by bidder on each page along with Price Schedule Format.	Yes	No
9.	Form of Technical Proposal	Yes	No

Bidder's Signature:
(Seal)

Form of Price Proposal and Appendix to Price Proposal (to be submitted along with Price Schedule)

FORM OF PRICE PROPOSAL
(On Bidder's Letter head)

To,

Maharashtra State Electricity Distribution Company Ltd.

Represented by the:

Superintending Engineer,

Maharashtra State Electricity Distribution Co. Ltd.,

Nashik Circle, Dist. Nashik, Pin 422101

Name of Contract: Award of Agencies for ***Replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar at Ambad MIDC Area under Nashik U-I Division of Nashik Circle under Maintenance Scheme.***

Sir,

We have understood and checked these documents and have not found any errors in them. We accordingly offer to execute and complete and guarantee the said Works and remedy any defects, fit for its purpose in conformity with these documents and work order to be issued when we get appointed and the enclosed proposal, for the rate as per Price Schedule exclusive of all the GST in accordance with the terms and conditions of the Contract. The above amounts are in accordance with the Price Schedules herewith enclosed which form a part of this bid.

We agree to abide by this Bid for the period of 60 days after the date of opening of the Technical Proposal, and it shall remain binding upon us and may be accepted at any time before that date. We acknowledge that the Appendix to Price Proposal and Appendix to Technical Proposal form part of our Bid.

If our Bid is accepted, we will provide the specified Security Deposit / PBG. We will commence the Works as soon as possible after receiving the Work Order after our award, and complete the Works in accordance with the above document and Work Order within time.

Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

Yours faithfully

Signature

Seal in the capacity duly authorized to sign bids for and on behalf of

APPENDIX TO PRICE PROPOSAL

Description	Tender No.SE/NC/T-01/2024-25
Employer's Name and Address	Maharashtra State Electricity Distribution Co. Ltd. Represented by the: Superintending Engineer, Nashik Circle Maharashtra State Electricity Distribution Co. Ltd.
Contractor's Name and Address	
Name and Address of the MSEDCL Representative	The Executive Engineer (Adm.), Nashik Circle.

CHECK LIST OF DOCUMENTS ENCLOSED

Sr. No.	Name of Documents Attached	Remark	
1.	Form of Price Proposal & Appendix to Price Proposal	Yes	No
2.	Price Schedule	Yes	No

Signature of Bidder:

.....:

APPENDIX- I (A)

FIRM PROFILE AT A GLANCE

Sr. No.	Particulars	Details
1	Name & Mailing Address of firm	
2	Contact Person Name, Designation & Contact No.	
3	E-mail Address for correspondence	
4	Firm Website Address	
5	Firm Status (Private/ Proprietor)	
6	PAN/ TAN No.	
7	Bidder's UIN No. (Unique Identification Number)	
8	Firm Registration No	
9	Bidder's registration certificates for GST	
10	<i>Bidder's registration certificates under the applicable PF and labour laws.</i>	
Attached are copies of the necessary original documents.		
1. 2. 3. 4. 5.		

It is certified that the information provided above is true to the best of my knowledge and belief. If any information found to be concealed, suppressed or found incorrect at later date, our tender shall be liable to be rejected and our company may be debarred from executing any business with MSEDCL as per MSEDCL debar policy.

Signature of Bidder

Name

Designation

Date:

APPENDIX- I (B)

FINANCIAL STATUS

Each Bidder must fill in this form including private/ public limited company.

Sr. No.	Particulars	Financial Data for Previous 3 Years [Rs. in Lacs]		
		2021-22	2022-23	2023-24
1	Total Assets			
2	Current Assets			
3	Total Liabilities			
4	Long Term Loans			
5	Current Liabilities			
6	Profits Before Taxes			
7	Profits After Taxes			
8	Net Worth			
9	Available Working Capital			
10	Annual Turnover			
	Attached are copies of the audited balance sheets, including all related notes, and income statements for the any three years of FY 2021-22, 2022-23, 2023-24			

Applicant's Auditor

APPENDIX- II

EXPERIENCE

Sr. No.	Nature of Work	Year wise order amount of works in Lakhs			Experience certificate attached at page No. ...
		2021-22	2022-23	2023-24	

Signature of Bidder

Name

Designation

Company

Date

APPENDIX- IV

FORM OF EARNEST MONEY DEPOSIT/ BID SECURITY

(BANK GUARANTEE)

WHEREAS, _____ [Name of Bidder] (hereinafter called “the Bidder”) has submitted his bid dated _____, for Award of Contractors for ***Replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar at Ambad MIDC Area under Nashik U-I Division of Nashik Circle under Maintenance Scheme*** with guarantee period of 1 Year for materials from the date of its commissioning and as described in the Bidding Data in MSEDCL under “Full Turnkey Contracts” basis under bid package number Bid No: SE/NC/T-01/2024-25 (hereinafter called “the Bid”) for works of *Replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar at Ambad MIDC Area under Nashik U-I Division of Nashik Circle under Maintenance Scheme*.

Know all people by these presents that We _____ [Name of Bank] of having our registered office at _____ (hereinafter called “the Bank”) are bound unto the Maharashtra State Electricity Distribution Company Limited in the sum of Rs. _____ (Rupees _____ only) for which payment well and truly to be made to the MSEDCL. The Bank binds himself, its successors and assigns by these presents. This guarantee will be payable at our branch office at _____ [Address of branch office], sealed with the Common Seal of the said Bank this _____ day of _____.

The conditions of this obligation are:

- 1) If the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid; or
- 2) If the Bidder refuses to accept the correction of errors in his Bid; or
- 3) If the Bidder is determined at any time prior to award of contract to have engaged in corrupt or fraudulent practices in competing for the contract; or
- 4) If the Bidder, having been notified of the acceptance of his Bid by MSEDCL during the period of Bid validity:

- a. fails or refuses to execute the Form of Contract Agreement in accordance with the Instructions to Bidders, if required; or
- b. fails or refuses to furnish the Security deposit, in accordance with the Instructions to Bidders;

We undertake to pay to MSEDCL the above amount upon receipt of its first written demand, without MSEDCL having to substantiate his demand, provided that in its demand MSEDCL will note that the amount claimed by him is due to him owing to the occurrence of one or all of the above conditions.

This Guarantee will remain in force up to **60 days** after the date of opening of Technical Bid as such deadline is stated in the Instructions to Bidders or as it may be extended by MSEDCL, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

Date

Signature of Bank's authorized officer

Seal

Signature of Bank's Second authorized officer

Seal

ANNEXURE- A**LIST OF MANPOWER ESSENTIAL FOR TECHNICAL QUALIFICATION**

Sr.no	Designation	Manpower	Work	Education Qualification and experienced
1	Supervisor	1 Nos.	Supervision & Coordination with MSEDCL Engineer-in-charge.	Degree/Diploma in Electrical Engineering with 05 years practical experience in substation work
2	Electrician/ Technician	2 Nos.	Carrying out Preventive & Breakdown Maintenance work	ITI Trade in Electrical with 05 years practical experience in Operation & Maintenance of substation equipment(s)
3	Helper	4 Nos.	Assistance to Technicians/ Electrician/ Cable Jointer for Carrying out Preventive & Breakdown Maintenance work	10th Class Pass with 03 years' experience and basic Knowledge of Electrical Equipments and wiring.
4	Unskilled Labour	2 Nos.	Assistance substation work	Having experience in substation work .

ANNEXURE-B**LIST OF TOOLS AND PLANTS (T&P) ESSENTIAL FOR TECHNICAL QUALIFICATION**

Sr. No.	Name of Tools and Plants	No.(s)
1	Insulation Tester. (Megger) (500-5000 V)	01
2	Earth Insulation Tester with suitable probes.	01
3	Multi-meter (digital)	01
4	Portable AC current injection set - Low voltage (0 to 40V, 0-100 amp)	01
5	Set of flexible wires of suitable current rating and connector clips	01
6	Clamp On meter (Tong Tester)	01
7	Oil BDV Tester set	01
8	Screw Driver set- 6"-12", Transparent Insulated Green Head, Non sparking type with insulated blades.	02
9	Hammer- Cross/Ball Pin with wooden handle, 200gm/500gm/800gm	03
10	Pliers- Combination pliers 150/160/170mm	03
11	Nose Pliers	02
12	Hacksaw	02
13	spanner set	02
14	Ratchet Set	01
15	Chain Pulleys	01
16	Fibre Ladders of suitable sizes	01
17	Crimping Tools	01
18	Air Blower	01
19	Vacuum Cleaner	01
20	Tap kit with handles	01

21	Vehicle for transportation-LMV	01
22	Discharge Rod (Earthing Rod) HT & LT	02 (Each)
23	Hand Gloves	2 Pairs
24	Safety Shoes	2 Pairs
25	Safety Zoola	02
26	Safety Helmet	05

ANNEXURE-C

Sr.No	Particulars	Qty	Material Cost
Part-I	HT Pole Replacement	51 Nos	1612063.31
Part-II	100 kVA Distribution Box Replacement	10 Nos	184221.00
Part-III	200 kVA Distribution Box Replacement	70 Nos	2119635.00
Part-IV	6 way feeder pillar with ACB	02 Nos	154782.60
Part-V	L.T. Mini Feeder Pillar Replacement	100 Nos	1638260.00
(A)	Total Cost of Material		5708961.91
1	Erection cost on material	15.00%	856344.29
2	Contractor supervision charges on material	5.00%	285448.10
	Sub-Total-1		6850754.29
3	Contractor's Profit	5.00%	342537.71
	Sub-Total-2		7193292.01
4	Transportation on material	4.00%	228358.48
5	T&P on material cost	1.00%	57089.62
6	Contingencies on material	2.00%	114179.24
	Sub-Total-3		7592919.34
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	15185.84
	Sub-Total-4		7608105.18
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	76081.05
9	Insurance	1.00%	76081.05
	Total-5 (Tender Cost)(excluding GST)		7760267.28
10	Price escalation on net material cost	0%	0.00
	Sub-Total-6		7760267.28
11	GST	18%	1396848.11
	Sub-Total-7 (Tender Cost)(Including GST)		9157115.39
12	Interest During Construction on sub total 7	0.00%	0.00
13	H.O. supervision charges On Sub Total 7	15.0%	1373567.31
14	Labour Charges for Dismantling as per enclosed sheet		20640.00
14	RI Charges HT line (5308.40/-)	0 RMT	0.00
15	RI Charges LT line (5994/-)	0 RMT	0.00
	Grant Total(DPR Cost)		10551322.70
16	25 % salvage value on old material to be dismantled		0.00

Replacement of rusted HT Pole ,LT Distribution Box,LT Mini Pillar

Part I	HT Pole Replacement		Cost Data 2022-23 (18.11.2022)		
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 11 m long	No.	51	24630.75	1256168.25
2	RSJ 116x100, 10 m long	No.	2	13882.05	27764.10
3	M.S.Channel 75x40x6 mm	Kg.	50	69.93	3496.50
4	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
5	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.76
6	11 kV Pin Insulators with G.I. Pins	No	120	109.00	13080.00
7	11 KV V cross arm with clamp	No	41	862.65	35368.65
8	Disc Insulator 11 KV 70 KN	No.	60	310.01	18600.60
9	Suspension Hardware for Dog0.1 or Equ.AAAC.	No.	60	369.91	22194.60
10	11KV A.B. Switch, 400 A	Set	0	11088.00	0.00
11	AAAC 100 mm ²	Rmt	100	66.69	6669.00
12	Sleeve Joints	No.	3	132.25	396.75
13	H.T.Stay Set	Set	50	807.30	40365.00
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	400	71.81	28724.00
15	Earthing Sets H.T	Set	51	461.70	23546.70
16	G.I.Barbed Wire 'A' type.	Kg.	71	80.34	5704.14
17	Danger Board in yard.	No.	51	57.50	2932.50
18	Concreting ration 1:3:6	Cmt.	18	3935.10	70831.80
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
3	11 kv guarding channel MS 75x40	Kg.	300	69.93	20979.00
21	11 KV Top fitting with clamp	No	41	122.55	5024.55
22	Black Bituminous Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	10	97.75	977.50
24	Aluminium Paint for 1 coat	Ltr.	7	129.95	909.65
25	G.I.Nut Bolts	Kg.	90	111.92	10072.80
26	Sundries	LS	1	885.50	885.50
	Wedge connectors		0		
	Ant To Ant or equivalent AAAC	No	0	131.23	0.00
	Cost of Material Part I				1612063.31

Part**II**

100 kVA Distribution Box Replacement

Cost Data**2022-23****(18.11.2022)**

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T.Dist.Boxes 100 KVA with MCCB	No	10	15386.40	153864.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	50	71.75	3587.50
3	Earthing with GI Pipe	No	10	392.85	3928.50
4	MS angle 50x50x6 mm	Kg.	200	69.93	13986.00
5	Sundries	LS	10	885.50	8855.00
	Cost of Material II				184221.00

Part**III**

200 kVA Distribution Box Replacement

Cost Data**2022-23****(18.11.2022)**

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T.Dist.Boxes 200 KVA with MCCB	No	70	27244.80	1907136.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	350	71.75	25112.50
3	Earthing with GI Pipe	No	70	392.85	27499.50
4	MS angle 50x50x6 mm	Kg.	1400	69.93	97902.00
5	Sundries	LS	70	885.50	61985.00
	Cost of Material III				2119635.00

Part**IV**

6 way feeder pillar with ACB

Cost Data**2022-23****(18.11.2022)**

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	6 way feeder pillar with ACB	No.	2	74355.60	148711.20
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	10	71.75	717.50
3	Earthing with GI Pipe	No	2	392.85	785.70
4	MS angle 50x50x6 mm	Kg.	40	69.93	2797.20
5	Sundries	LS	2	885.50	1771.00
	Cost of Material IV				154782.60

Cost Data**2022-23****(18.11.2022)****Part V** L.T. Mini Feedar Pillar Replacement

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. Mini Feedar Pillar	No	100	10596.00	1059600.00
2	GI Strips (25X3 mm)	KG	200	90.15	18030.00
3	Earthing with GI Pipe	No	200	392.85	78570.00
4	Concreting ration 1:3:6	Cmt.	100	3935.10	393510.00
5	Sundries	LS	100	885.50	88550.00
	Cost of Material V				1638260.00



OFFICE OF THE SUPERINTENDING ENGINEER

MSEDCL, NASHIK CIRCLE,

DIST. NASHIK, Pin Code -422101.

TENDER NO. SE/NC/T-01/2024-25

(PRICE BID)

**Award of Contractors for Replacement of rusted HT Pole, LT Distribution Box,
LT Mini Pillar at Ambad MIDC Area under Nashik U-I Division of Nashik Circle
under Maintenance Scheme**

E.M.D. Rs. 1,05,514/- (Rs-One Lakh Five Thousand Five Hundred Fourteen Only)

UNDERTAKING

I / we hereby undertake to abide by the following condition of the Tender: That the EMD deposited against the above mentioned tender shall be liable for forfeiture in full, if either:-

- 1) I / we withdraw my / our tender before the company finalized the decision of acceptance the tender.
- 2) In case my / our tender is accepted by the company and I / we fail to pay the P.B.G. / Security Deposit as per Tender conditions against this tender within stipulated period.

Place :

Signature of Tenderer

Date:

LETTER TO THE SUPERINTENDING ENGINEER

To,
Superintending Engineer,
Maharashtra State Electricity Distribution Co. Ltd.,
Nashik Circle, Dist .Nashik, Pin 422101

Dear Sir,

I/We agree for the rates tendered by me/us subject to the condition of the tender and for which I/We have carefully read and which I/We have thoroughly understood and to which I/We hereby agree.

I/We hereby agree to keep this offer open for 60 days after the returnable date of the Tenders and shall be bound by communication of acceptance dispatched within the prescribed time.

Yours faithfully,

DATE:

Name & Address of the Tenderer.

Seal and Signature of the Tenderer.

Price Bid

Description	% Rate
Charges including consumables item for Replacement of rusted HT Pole, LT Distribution Box, LT Mini Pillar at Ambad MIDC Area under Nashik U-I Division of Nashik Circle under Maintenance Scheme	

1. While quoting the rates the bidder should refer Annexure C for total estimated quantity.
2. The work can go up beyond estimated quantity.
3. The rates quoted should be inclusive of consumable items.
4. The material will be supplied by the contractor @ rate of prevailing cost data of MSEDCL together with price indexing if applicable. These materials are listed at Annexure-C.
5. If the Cost of any material /equipment is not available in the Cost Data, the same shall be taken from the work executed in the adjoining Division/Circle.
6. The cost of transportation of material will be reimbursed by MSEDCL on the cost of major material, as per Annexure-C, as per prevailing cost data, at a rate of 4% on material supplied by contractor and at a rate of 1% for material supplied by MSEDCL and towards crediting of old material to store.
7. Old / Damaged cables / materials removed from site shall be credited to Divisional Stores by the Agency.
8. Applicable rate of G.S.T. _____%(as per notification published).

Seal and Signature of the Tenderer.

MATERIAL SPECIFICATIONS CELL

TECHNICAL SPECIFICATION

6/8 WAY LT FEEDER PILLER WITH PROVISION OF
ENERGY METER,AIR CIRCUIT BREAKER, MS/SMC BOX

**TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT
BREAKER, MS/SMC BOX**

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TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX

1.00 SCOPE

This specification covers design, manufacture, testing, inspection at manufacturer's works, packing and supply of LT Feeder Pillars made out of either complete enclosure of Mild Steel or complete enclosure of thermosetting plastic i.e. glass reinforced polyester sheet molding compound confirming to IS: 13410/1992. The system shall be A.C.

3 phase, 4 wire, 433 V, 50 Hz with effectively grounded neutral. L.T. feeder pillars shall be 6Way/8Way with ACB along with provision for Energy meter and Resin cast CT arrangement at various stores/sites in Maharashtra state.

It is not the intent to specify herein complete details of design and construction. The equipment offered shall conform to relevant standard and high quality and workmanship capable to perform continuous and satisfactory operations in the actual service conditions at site. Bidder shall have proven experience of 3 years of manufacturing of similar products and supplying to electrical utilities.

2.00 SERVICE CONDITIONS:

The feeder pillar to be supplied against this specification shall be suitable for satisfactory continuous operation under the following environmental conditions:

- | | |
|--|-----------------------|
| a) Maximum ambient temperature | 55°C |
| b) Maximum ambient temperature in shade | 45°C |
| c) Minimum temperature of air in shade | 35°C |
| d) Maximum daily average temperature | 40°C |
| e) Maximum yearly weighted average temperature | 32°C |
| f) Relative Humidity | 10 to 95 % |
| g) Maximum Annual rainfall | 1450 mm |
| h) Maximum wind pressure | 150 kg/m ² |
| i) Maximum altitude above mean sea level | 1000 meter |
| j) Isoceraunic level | 50 days/year |
| k) Seismic level (Horizontal acceleration) | 0.3 g |
| l) Climate: Moderately hot and humid tropical climate conducive to rust and fungus growth. | |

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX
3.00 STANDARDS (to which feeder pillar shall comply):

IS: 5039/1983	Distribution pillars for voltage not exceeding 1000 V
IS:14772/2000	General Requirements for Enclosures for Accessories for Household and Similar Fixed Electrical Installations - Specification
IS :13947/ 1993(Part 1) & (Part 2)	Specification for Low-voltage Switchgear and Controlgear – Part 1 : General Rules& Annex ‘C’ for Degrees of Protection provided by enclosures of electrical Equipments
	Part 2 : Circuit Breakers
IS: 13410/1992	Glass reinforced polyester sheet molding compounds (SMC)
IS: 13411/1992	Glass reinforced polyester dough molding compounds (DMC)
IS: 13703/1993	Low voltage Fuses (part 1,Part 2 sec1, Part 2 sec 2 & Part 4)
IS/IEC 127-2 : 1989	Miniature Fuses - Part 2 : Cartridge Fuse Links – Specification
IS/IEC 127-6 :1994	Miniature Fuses - Part 6 : Fuse Holders for Miniature Cartridge Fuse Links - Specification
IS:8623/1993 (Part 1,2 &3)	Specification for Low-Voltage Switchgear and Controlgear Assemblies for general requirement of L.T. Switchgears
IS: 4237/1982	General arrangement for switch gear and control Gear for voltage not exceeding 1000 V with enclosure Box
IS: 732/1989	Code of Practice for Electrical Wiring Installations
IS: 5082/1998	Wrought aluminum and aluminum alloy bars, rods, tubes and sections for electrical purposes
IS: 6005/1998	Code of practice for phosphating iron and steel
IS: 5/2004	Colour for ready mixed paints and enamel
IS: 8588(Part- 1/ 1977	Thermostatic bimetals: General requirements and methods of tests

4.00 PRINCIPLE TECHNICAL PARAMETERS:

Rated Supply Voltage : 3 phase, 440 V, 50Hz
 Rated Current : 800A, 1000A,1250 A (as per
 requirement) Insulation level: 1100V AC 50 Hz Continuous
 : 2.5 kV for 1 Min
 : 2000 V DC

Rated short circuit
 Current :80KA
 Temperature rise : Shall not exceed delivery operating
 temperature of components conforming to
 relevant standards limited to 30° C above
 ambient.

5.00 GENERAL TECHNICAL PARAMETERS:

5.1) CUBICLE

5.1.1 The cubicle of LT feeder pillars shall be made out of either 10 SWG (3.25 mm thick) cold rolled M.S sheet steel, plates and shaped sections or thermosetting plastic i.e. glass reinforced polyester sheet molding compound (SMC) conforming IS: 13410- 1992 as per the requirements specified. All panel edges and door edges shall be reinforced against distortion by rolling, bending etc. The complete cubical shall be rigid self supporting and free standing. The enclosure shall comply with the requirement of IP- 43 type as per the IS – 13947 or the latest version thereof. The enclosure shall be anti corrosive, dust proof, rust proof, vermin and water proof, ultra violet stabilized and flame retardant property.

5.1.2 The LT feeder pillars shall have front and rear compartments. Front compartment shall be suitable for HRC fuses and the rear for cable terminations. Asbestos sheet of at least 6 mm thick shall be provided for separation between front & rear compartments; between ACB & Meter compartment; between R-Y-B HRC fuse compartments. L.T. Feeder pillar shall have Air Circuit Breaker of rating 800/1000/1250 Amp on incoming circuit as per the actual requirement and HRC fuse base with links of 630/400A on outgoing circuits as per the requirement with necessary interconnecting Bus Bars/ Links etc.

5.1.3 The cubicles shall have center lift up type slanting roof rain hood made up of 10 SWG MS sheets or minimum 10 SWG SMC sheets conforming to IS: 13410-1992. The depth and width of the rain hood shall be at least 120% of the depth and width of the pillars. The doors shall not be detachable after fixing the rain hood.

5.1.4 The base and doors of cubicle shall be individually in one piece except for fixing of the accessories like hinges, clamps, mounting clamps, bolts etc. The Average minimum thickness of the MS/SMC sheet for cubicle and door shall be 4mm for SMC and 10 SWG for MS sheet for 6way/8way Pillar. The details of SMC material shall be as per the annexure 'I' attached. Base and doors shall have flange / collars as shown in drawing. Collar of Base and doors shall overlap by 10mm.

5.1.5 Standard General Arrangement of Air Circuit Breaker, HRC fuse base with links, Link Disconnecter, Bus Bars, connecting links, Cable termination arrangement etc. inside the L.T. pillars shall be as per the drawings attached with the specification for various types of L. T. Feeder

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX

pillars. The clearances & creepage distances shall be in accordance with IS: 13947(Part 1) / 1993. Air Circuit breaker's operating handle shall be accessible only after opening of the doors.

5.1.6 The general overall dimensions of L.T. feeder pillars shall be as in the table below. The enclosure shall have doors from front & back side. The complete cubical shall be rigid self supporting and freestanding.

The dimensions mentioned below are overall dimensions without rain hood. However, Compact size with adequate clearances as per I. E. Rules 1956/IS: 13947 (Part 1) / 1993 is also acceptable.

Width	1400 mm for 6 Way and 1930 mm for 8 way
Depth	650 mm
Height	1850 mm

The supplier shall submit their own drawing for approval of the competent authority before manufacturing. Proto shall be inspected by the representative of the C.E. (Testing) before bulk manufacturing.

5.1.7 Suitable no. of hinges as mentioned below shall be fitted from inside of the box to fix the doors. Hinges shall be 50 mm in length and made from 2mm thick M. S. sheet. Hinge pin diameter shall be minimum 4mm. Doors shall be fixed with three screws in each hinge. The hinges shall not be visible from outside. On closing of doors, right door shall rest on the left door. Hinges shall be of such construction that the doors shall be swung open by not less than 150°. The details of doors & hinges to be provided shall be as mentioned below:

Front Door-3 no., Back Door-3 no., Hinges/door-3

5.1.8 The doors shall be centrally closed with "Godrej" type triple position locking arrangement and shall be operational with a common handle from outside the door. Movement of handle will lock the doors at center, top & bottom. A Nylon washer shall be provided between the handle and door to avoid penetration of water. One central lock with brass levers shall be provided inside the door. Key way with suitable cover shall be provided on the door for operating the lock from outside. Two keys shall be supplied for each pillar. In addition cleat arrangement shall be provided for putting two nos. of padlocks for each size of doors.

5.1.9 Four Louvers (two on each side) shall be provided to L.T. feeder

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX

pillars. Louvers with stainless steel wire mesh with shall be provided on both sides of the feeder pillars and at the top and bottom of both sides of L.T. pillars. Mounting of components inside the enclosure shall allow free air circulation keeping the clearances as per specification.

5.1.10 The cubicles shall be provided with pedestal arrangement having suitable no. of bottom holes for grouting bolts at all four corners & at the middle as per requirement.. The pedestal shall be covered from all sides with 10 SWG M.S./ SMC sheets.

5.1.11 Suitable no. of detachable gland plates made up of 10 SWG MS sheets/SMC material shall be provided in the cubicle at the bottom. Gland plate shall be provided with suitable size cable gland & with four screws for fixing the plate from inside. Size & no. of the glands to be provided will be intimated to the successful tenderer along with approval of drawings.

Fuse base shall be mounted on MS / SMC base channel of size 60 x 20 x 3.15 mm thick. All Nuts & Bolts in electrical circuit shall be of non-magnetic stainless steel.

5.1.12 A bayonet lamp holder complying with IS: 1258/1987 with a tumbler switch complying with IS: 3854/1988, a three pin plug & socket complying with IS: 1293/1988 with necessary fuses & wiring shall be provided inside the pillar on the front bottom portion of the shade near the neutral bus bar.

5.1.13 Rigid stand shall be made from M.S. angle or FRP Pultruded sections as per IS: 6146. Horizontal and vertical members of the cubicle shall be of size 50 x 50 x 6 mm.

5.1.14 Two galvanized earthing Bolts of M12 X 50 mm size shall be welded from inside and projecting outside of the box. Two Nuts with washers shall be provided on each bolt.

5.1.15 Enameled name plate of the supplier, type of pillar and M.S.E.D.C.L. Tender Number & date shall be displayed on front door.

5.1.16 Enameled Danger Board with “DANGER 440 VOLTS” mark shall be displayed on the left hand side of front and back doors as per IS 2551.

5.1.17 Toughened glass window with rubber gasket of 175 mm X 90 mm size should be provided on main door of cubicle in such a way to see meter readings.

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX
5.2) AIR CIRCUIT BREAKERS

5.2.1 Air Circuit Breakers of the following rating & technical specifications shall be provided for the Incomer of L.T. Feeder pillars with ACB, with split Bus bar type & with split with ACB as per the actual requirement.

5.2.2 ACB shall be of 440V, 50 HZ, 800/1000/1250 A (as per actual requirement) with short time current rating of 50KA for 1 sec. Air Circuit Breaker shall conform to IS: 13947 part - 2 of 1993 with latest amendments. Other technical details shall be as below:

Sr. No.	Particulars	Requirements
1	Rated operational voltage (V) at 50 Hz	440V
2	Rated frequency (Hz)	50
3	Current rating Amps (rms)	800/1000/1250 A
4	Rated insulation voltage (V) at 50 Hz	1000
5	Number of poles	3
6	Mounting arrangement	Fixed type front mounting
7	Rated impulse withstand voltage(kV)	12 KV
8	Rated Ultimate Short circuit breaking capacity at 415 V, 50 Hz (kA rms) Icu	50
9	Rated Service Short circuit breaking capacity at 415 V,50 Hz (kA rms), Ics	50
10	Rated short circuit making capacity at 50Hz (kA peak), expressed as multiples of Icu	2.1
11	Rated short time withstand current for 1 sec at 50 Hz (kA rms), Icw, expressed as percentage of Icu	50 KA
12	Line-load reversibility	Required
13	Category of utilization	B
14	Shutters on 'Trip' & 'Close' push button with sealing facility	Required
15	Accessory mounting	Accessories shall be front accessible plug in type. Accessories namely motor shunt trip & closing coil, UVT

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX

		etc. should be common for the entire range & shall be suitable for both AC & DC voltages.
16	Operating mechanism	Spring charging stored energy type, Manual & Automatic.
17	Mechanical life (Operating cycles)	20000
18	Electrical life (Operating cycles) per set of arcing contacts	5000
19	Indications	Breaker shall have following mechanical indications: 1. ON, 2. OFF, 3. TRIP 4. SPRING CHARGE STATUS
20	Sensing	True RMS based
21	Type	Microprocessor based
22	Control Terminal	Control Terminal should be front accessible & minimum 25 pairs of contacts shall be available. Minimum ten Auxiliary NO / NC contacts shall be provided for electrical interlocking between ACBs.
23	Working temperature	Suitable for operation at 50°C
24	Protection required	Following protections with selective ranges required.
24a	Overload	Pick – up: 0.4 to 1.0 Time delay : 0.2 to 40 sec.
24b	Short Circuit	Pick – up: 2 to 10 Time delay: 20 to 400 msec
24c	Instantaneous over current	Pick – up: 4 to 16 & OFF
24d	Earth fault	Pick – up: 0.2 to 0.6 & OFF Time delay: 100 to 400 msec
25	Metering Required	Provision for following measurement functions shall be made on the ACB i) 3 phase current

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX

		ii) 3 phase voltage iii) KWH iv) KVAH v) Power Factor vi) Max. demand(KVA) vii) Fault History of Minimum 50events
26	Indication	Release shall give individual indication for each type of fault.
27	Power	Release shall be self powered & independent of incoming supply.
28	Safety	Local controls shall be secured by padlocking arrangement

For Air Circuit Breakers used for Bus coupler /split bus bar purpose, metering is not required to be provided as per requirement at sr. no. 25 of the above table.

5.3) BUS BARS:

5.3.1 The bus bars shall be made up of electrolytic grade aluminum confirming to grade 63401 WP of IS:5082.

5.3.2 The bus bars shall be with PVC sleeves of Colour Red, Yellow ,Blue and black for top ,middle and Bottom and below bottom(neutral) busbar respectively Or painted with non deteriorating type Epoxy paint for full length as below:

Red colour for top busbar.

Yellow colour for middle bus bar,

Blue colour for bottom bus bar,

Black colour for neutral bus bar below bottom bus bar

5.3.3 Size of the bus bar For R,Y&B phase shall be 60 x 10 mm and for Neutral it shall be 50 x 6 mm.

5.3.4 Electrolytic grade aluminum twin flat cable terminals (Z Patti) shall be provided in staggered formation for connecting cable cores for each phase from rear side in all. L. T. pillars (except mini pillar). The arrangement shall be suitable for taking Load current reading with clip on type of meter. Insulated horizontal Bakelite bar of at least 50 x 12 mm shall be provided to support and take care of weight of cables, jointing etc.

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX

5.3.5 Neutral bus bar shall have one terminal for each circuit way and shall be provided with two nickel plated, nuts, bolts, spring washers and plain washers at each end for earthing. Cross sectional area of neutral bus bar shall be at least 50% of cross sectional area of phase bus bar.

5.3.6 Suitable insulated phase barriers of at least 6 mm thick asbestos cement sheet shall be provided between front and rear compartment, between adjacent set of phase and neutral bus bars and between doors and bus bars with firm fixing arrangements.

5.3.7 The current rating – current carrying parts shall not generally exceed the limits those given in Clause No.5.4.7 Higher current rating adopted if any in special cases shall be subject to successful temperature rise tests carried out in reputed laboratories.

5.3.8 Minimum clearances, wherever shown, shall be as per General Arrangement Indicative Drawing enclosed with this specification. Other clearances shall be as per requirement of IS: 4237/1982 amended up to date.

5.3.9 There should be provision to insert Ring type CTs of required ratio into the bus bars. Ratios are 200/5, 300/5A, 500/5A, 1000/5A for 100/200/315/630 kVA distribution transformer respectively. The feeder pillar manufacturers shall provide ring CTs of appropriate capacities only. It shall be part of the feeder pillar. Ring CTs have to be procured from MSEDCL's approved vendor. Feeder pillar manufacturers should provide the required wires for CT connections of standard size & colour.

5.4) FUSE BASE ASSEMBLY:

5.4.1 The Fuse bases shall be suitable for HRC fuse links and strips. All fuse bases shall be identical and interchangeable irrespective of whether they are provided in incoming or outgoing circuits and shall be capable to carry rated normal current without exceeding safe temperature as per relevant standard duly tested at Lab like CPRI, ERDA etc.

5.4.2 The base of the HRC Fuse shall be of non-tracking, heat resistant insulating porcelain material of superior electrical and mechanical properties equivalent to Dough Molding Compound (DMC). The Fuse Base shall be sturdy in construction. The insulation shall not get affected due to dust, moisture etc, at wide fluctuation in temperature. The holes for fasteners shall be plugged by insulating filling compound which shall not drain at operating temperature in service.

5.4.3 The contacts shall be made up of electrolytic grade copper alloy with corrugated terminal pad and spring action to yield high contact pressure. G. I. spring ring shall be made out of at least 6 mm dia. spring

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX

steel round. The spring action shall not get affected by operations and variations in operating temperatures in service.

5.4.4 Thermostatic bimetal device shall be provided between terminal pad and bus bars and between terminal pad and cable terminals (Z Patti) to prevent bimetallic deterioration.

5.4.5 HRC Fuse Base should withstand the breaking capacity of the fuse link of 80kA.

5.4.6 The complete assembly shall be so fixed and secured that there shall be no turn, fall out displacement and vibration of any part during inserting and removal of fuses/Links. Load current reading, cable end connection etc

5.4.7 The current rating adopted shall generally not exceed the following limits. Higher current density adopted if any in special corrugated and other shapes shall be subject to successful temperature rise tests carried out in reputed laboratory.

Size of section mm x mm	Maximum current in Amps	
	Single Section	Double Section
30 x 3	205	385
30 x 5	270	500
40 x 3	280	500
40 x 5	350	650
40 x 10	515	975
50 x 5	425	780
50 x 10	625	1150
60 x 5	500	900
60 x 10	730	1330
80 x 5	680	1170
80 x 10	940	1700

5.5) FUSE LINKS:

The HRC Fuse Links shall be sturdy in construction of “Din Type”. Corrugated fuse links shall be made out of electrolytic grade copper flat of at least 4 mm thick and shall be capable of carrying the rated current of the fuse base and shall be suitable for inserting and pulling out by insulated fuse pulling handle. Breaking capacity shall be 80 kA. For fault indication red pop up indicator should come out instantly on fusing. Manufacturer’s name, current rating, breaking capacity and type shall be marked on HRC fuse link.

The successful bidder shall submit the complete type test reports as per specification for approval of CE (Testing & QC) before commencement of supply.

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX

5.6) PAINTING:

5.6.1 The M.S. cubicles shall be provided with anti corrosive high quality post office red colour paint conforming to shade No 538 of IS:5 from inside and outside to withstand the corrosive and humid atmosphere. The colour of SMC cubicle shall be red conforming to shade No 538 of IS:5

5.6.2 For M.S. Cubicle, all interiors and exteriors of the cubicle shall be degreased in 5% solution at 75°C for 15 minutes. They shall then be washed in hot water bath at 65°C to remove all rust, scale corrosion, grease and other adhering foreign matter and shall be rinsed in cold running water.

5.6.3 M.S. cubicles shall then be pickled in 25% hot sulphuric acid at 65°C for 5 minutes. Care shall be taken to avoid over pickling by addition of adequate quantities of inhibitor and avoid loss of tensile strength. The cubicle shall then be rinsed in cold running water and put in alkaline solution at 65°C for 1 to 2 minutes. The cubicle shall then be immersed in cold water (still agitated) to remove all traces of alkali and untreated salt. The cubicle shall then be dipped in deoxidize chamber to ensure complete removal of moisture.

5.6.4 Corrokill rust converter conforming to IS 13515 shall be preferably applied as primer. The cubicle stoved at 150°C for 10 to 12 minutes. It shall then be cooled, filled with putty to get smooth and flawless surface. Enameled paint shall then be sprayed and towed at 150°C for about 12 minutes.

6.00 TESTS:**6.1) TYPE TESTS:**

6.1.1 Type test reports as per cl.no.8.1.1 of IS: 5039/1983 shall be submitted along with the offer for the type and rating of circuit breakers offered, Type test reports shall be from any NABL approved laboratory such as M/s CPRI, ERDA. Type tests carried out prior to five years of the date of opening of the tender are not valid.

Following Type Test Reports shall be submitted for approval.

(a) ON COMPLETE L. T. PILLER:

Type tests as per IS:5039/1983 shall be carried out on complete L.T. feeder pillars .

1. Verification of temperature rise limits (As per Cl.8.2)

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- 2.Verification of Dielectric Properties (As per Cl.8.3)
- 3.Verification of short circuit strength (As per Cl.8.4)
- 4.Verification of clearance & creepage distances (As per Cl.8.5)
- 5.Verification of Degree of protection for IP- 43 (As per Cl.8.6)

(b) ON AIR CIRCUIT BREAKER:

All type tests as per IS: 13947/1993 (Part II amended up to date) shall be carried out on Air Circuit Breakers

(c) ON HRC FUSES BASE AND HRC FUSE LINKS:

All type tests on HRC fuses and HRC fuse links shall be carried out as per IS:13703/of 1993 (Part I & II amended up to date) for HRC Fuse Base and HRC fuse link.

6.2) ROUTINE TESTS:

It should be carried out on all boxes on complete L.T. Feeder Pillar. In case of bought out items, routine and acceptance tests as per relevant IS and this specification shall be carried out at the original manufacturers' works.

1. Overall Dimensions Checking.
2. Insulation Resistance Tests.
3. High Voltage Test at 2500 V, 50 Hz AC for one minute.
4. Operation Test HRC fuse base and fuse links.

7.00 TEST CERTIFICATES:

The L.T. Pillar enclosure, Air Circuit Breakers, HRC fuse, HRC Fuse Link etc. offered shall be fully type tested as per relevant IS and this specification. The successful Bidder shall furnish detailed type test reports before commencement of supply. The detailed Type Test Reports shall be furnished with relevant oscillogram and certified Drawings of the equipment tested. The purchaser reserves the right to demand repetition of some or all the Type Tests in presence of purchaser's representative at purchaser's cost.

All the type tests shall be carried out from laboratories which are accredited by the National Board of Testing and Calibration Laboratories (NABL) of Government of India such as CPRI Bangalore/Bhopal, ERDA Baroda to prove that the complete L.T. Pillar, meet the requirements of the specification.

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Following test certificates and documents shall be furnished at the time of inspection.

- a) Chemical analysis certificate and documents showing genuine source of procurement of electrolytic grade conductivity Aluminum Sections.
- b) Chemical analysis certificate and Document for having genuine & standard SMC body material of L.T. feeder pillar as per specification & IS: 13410. Source of procurement of the same shall be furnished.
- c) Document showing genuine source of procurement of steel sheet and sections.
- d) Certificate of temperature rise test.
- e) Certificate of painting with degreasing, pickling phosphate, and painting and oven treatment by seven tank oven process in respect of M.S. Cubicles.

The supplier shall conduct voltage withstand test and operations tests at the time of inspection.

8.00 PROTOTYPE SAMPLE:

The successful bidders should manufacture 3 Nos. of prototype L.T. feeder pillars as per the specification and keep ready at their works for the purpose of sample inspection and testing. The MSEDCL at their option may send a team of Engineers to the works. Prior intimation of this inspection may not be given to the Bidder.

9.00 INSPECTION:

9.1 The supplier shall prepare a prototype and offer the same for inspection and approval before taking up mass production.

9.2 All routine & acceptance tests and inspection of material shall be carried out at the place of manufacturer. The manufacturer shall offer the Inspector (representing the purchaser) all reasonable facilities, free of charge at the time of Inspection

9.3 The supplier shall offer inspection of the material at his works before dispatch. If required the supplier shall also offer inspection of manufacturing painting and assembly processes and quality control system. If any material is not found in line with relevant specification the supplier shall carry out the modification and offer for re-inspection.

9.4 Inspection and acceptance shall not absolve the supplier of his responsibility to supply the material in accordance with the specifications. The purchaser reserves the right to reject the material not confirming the relevant specifications.

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10.00 DRAWINGS AND DOCUMENTATION:

10.1 The successful bidder shall submit set of all drawings of the L.T. Pillar and its components in triplicate to CE (Testing & QC) office and get the same approved before commencement of supply.

10.2 Following indicative drawings are enclosed herewith.

Outdoor Type 6/8 way L.T. feeder Pillar with ACB with Energy Meter-
Drawing No.MSEDCL/MS I/feeder Piller/08

10.3 The tenderer shall furnish all details and clarifications required if any for scrutiny and evaluation of the offer.

10.4 Manufacture of material to be supplied shall be done strictly as per approved drawing.

10.5 Approval of drawing shall not absolve the supplier of his liability for ensuring correctness according to applicable standards & regulations.

10.6 The Bidder/Supplier shall fill-in the following schedules which form part of the specification if any schedule is not filled or incompletely filled the offer is liable to be treated as incomplete and rejected.

Schedule-A: Guaranteed technical particulars

Schedule-B: Deviations from specifications

Schedule-C: Bidder's/Supplier's Experience

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX
ANNEXURE – I

Specifications for Fiberglass Reinforced Plastic Sheet moulding compound used for Pillar Body and doors

1. SMC Sheet Molding Compound shall conform to IS:13410-1992
2. The Surface appearance of the door must be smooth, non porous, and homogeneous, free of ripples, defects, and marks. No filler or fiber shall be visible at anyplace.
3. Other properties of SMC material shall be as follows & shall pass the test mentioned against the same.

Sr. No.	Characteristic	Requirement	Type of test	Method of test Ref. to
1	Material.	Thermosetting Plastic		
2	Grade of material	SMC Electrical grade S3		IS:13410-1992
3	Grade of material for frame	FRP Pultruded sections		As per IS :6746
Material requirement for Sheet Molding Compound				
4	Glass content, percent by mass (Min.)	20	Type	Annexure A of S:13411-1992
5	Mould shrinkage, linear % Max	0.25	Acceptance	Annexure B of IS:13411-1992
6	Flow, mm, Minimum	170	Acceptance	Annexure C of IS:13411-1992
Requirement for Molded Sheet Molding Compound				
7	Water Absorption, % Max	0.20	Type	Annexure D of IS:13411-1992
8	Izod impact strength (Notched), KJ/m ²	55	Type	Annexure E of IS:13411-1992
9	Flexible Strength ,MPa , Min	170	Type	Annexure F of IS:13411-1992
10	Power Arc Resistance Sec.Min.	180	Type	Annexure G of IS:13411-1992
11	Modulus of Elasticity, 103 ,MPa	12 to 15	Type	IS: 8543 Part-4 (Sec-1)/ 1984
12	Tracking Resistance CTI,Min	1000	Type	IS: 2824/1975
13	Dielectric Strength at 90oC in Oil KV/mm	11	Type	IS:6262/1971
14	Dissipation factor (4 days at 80 % RH & 1 KHz)	0.01	Type	IS: 4486/1967
15	Heat Distortion Temperature, °C ,Min	150	Type	Annexure H of IS:13411-1992

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16	Oxygen Index,% Min	24	Type	IS: 13360 art-6 (Sec-6)/1992
17	Post shrinkage, % Max	0.01	Acceptance	Annexure B of IS:13411-1992
18	Tensile Strength ,MPa , Min	70	Acceptance	IS: 8543 Part-4 (Sec-1)/1984
19	Density of Moulding, g/ml	1.8 to 2.1	Routine	IS: 8543 Part-I /Sec 2/1979
20	Surface resistivity (24 H in water), Ohm,Min	1×10^{13}	Routine	IS: 3396/1979
21	Volume resistivity, Ohm-cm, Min	1×10^{14}	Routine	IS: 3396/1979
22	Exposure to flame	Self-Extinguishing		IS:4249
23	Melting Point	test up to 400°C		IS:13360 Part 6 : Sec 10 : 1992
24	Cross Breaking Strength	1723 Kg/sq.cm		As per ASTM D790
25	Shear Strength	879 Kg/sq.cm		As per ASTM D732
26	Flammability (V2)	UL 94 or IS : 11731 (Pt.II)		IS : 11731 (Part-II)
27	Water absorption			IS : 14772
28	Mechanical Strength			IS : 14772
29	Marking, Dimensions and construction			IS : 14772

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX

SCHEDULE – A

GUARANTEED TECHNICAL PARTICULARS (GTP) OF L. T. FEEDER PILLER WITH ACB

Sr. No.	Parameter Name	Parameter type
1	Name or Trademark of Manufacturer.	Text
2	Type of L.T. Pillar	Text
3	Rated normal voltage	Text
4	Material of construction of L. T. Pillar enclosure & doors	Text
5	Thickness of SMC sheet / M.S.sheet for enclosure	Text
6	Thickness of SMC/MS sheet for doors	Text
7	Colour of the L. T. Pillar enclosure	Text
8	Dimensions of cubicle without rain hood – Width x Depth x Height (in mm)	Text
9	Dimensions of rain hood – Width x Depth x Height of center lift (in mm)	Text
10	Fiberglass Reinforced Plastic Sheet Molding Compound	
10(a)	Material (Thermosetting Plastic)	Text
10(b)	Grade of material (SMC as per IS:13410-1992)	Text
10(c)	Grade of material for frame (FRP Pultruded sections as per IS 6746)	Text
10(d)	Heat deflection Temperature (As per IS:13411) (min 150°C)	Text
10(e)	Exposure to flame (Ref. Std. IS:4249) (Self-Extinguishing)	Text
10 (f)	Melting Point (Ref. Std. IS:13360) (Does not melt)	Text
10(g)	Fiberglass reinforcement (Minimum 25%)	Text
10(h)	Density of Fiberglass materials (450 gms. Per sq. mt.)	Text
10 (i)	Maximum permissible Temperature($\geq 90^{\circ}$ C)	Text
10 (j)	Door material (U.V. resistant & resistant to salty & humid atmosphere)	Text
10(k)	Insulation Resistance (As per ASTM D257)	Text
10 (l)	Specific Gravity as per IS:10192 of SMC material (1.8)	Text
10 m	Dielectric Strength as per IS:1998 (12kV / mm)	Text
10(n)	Tensile Strength as per IS:867-1963 (1058 Kg/sq.cm)	Text
10(o)	Cross Breaking Strength as per ASTM D790 (1723 Kg/sq.cm)	Text
10(p)	Shear Strength as per ASTM D732 (879 Kg/sq.cm)	Text
10(q)	Ball Pressure Test as per IS:335	Text
10 (r)	Water Absorption as per IS:14772	Text
10(s)	Mechanical Strength as per IS:14772	Text
11	Hinges	
11(a)	Hinges : Type	Text
11(b)	Hinges : Length (50mm)	Text
11(c)	Hinges : Thickness of material	Text
11(d)	Hinges : pin Diameter	Text

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11(e)	Number of hinges per door	Text
12	Type of locking arrangements	Text
13	Number of padlocking arrangements	Text
14	Number and size of ventilating louvers with wire mesh	Text
15	Details of painting	Text
16	Dimensions and details of asbestos sheets	Text
17	Dimensions and details of bakelite sheets	Text
18	Dimensions and details of gland plates	Text
19	Bus Bar, Fuse Base & Fuse Link	
19(a)	Size of bus bar	Text
19(b)	Size of neutral bus bar	Text
19(c)	Grade and specification of material of Bus bars	Text
19(d)	Rated normal current of Bus bars	Text
19(e)	Rated safe temperature of Bus bars	Text
19(f)	Make & Type of Fuse base assembly	Text
19(g)	Grade and specification of material of Fuse base contacts	Text
19(h)	Thickness and dimensions of contacts of fuse base	Text
19(i)	Rated normal current of Fuse base	Text
19 (j)	Rated safe temperature of Fuse base	Text
19(k)	Grade and specification of material of Fuse links	Text
19(l)	Make & Type of Fuse link	Text
19m	Rated normal current of Fuse link	Text
19(n)	Rated safe temperature of Fuse link	Text
19(o)	Grade and specification of material of spring steel round	Text
19(p)	Dimensions of spring steel round	Text
20.	Make & Type of bimetallic lugs	Text
21.	One Minute P. F. withstand voltage	Text
22	Rated short time current	Text
23	Rated temperature rise	Text
24	Size & Thickness of Bakelite sheets provided	Text
25	Air Circuit Breaker	
25(a)	Make & Type	Text
25(b)	Rated Voltage (440V)	Text
25(c)	Rated Current (800/1000/1200 Amps as per requirement)	Text
25(d)	Rated Frequency (Hz)	Numeric
25(e)	Whether facilities as per table in cl.no.5.6 are included in ACB offered	Boolean
25(f)	Whether Type test reports for ACB & other components are submitted separately	Text
26	List of test conducted on similar equipment's	Text
27	List of copies of test certificate enclosed	Text
28	Any other details	Text

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SCHEDULE – B
DEVIATIONS FROM SPECIFICATION

All deviations from this specification shall be set out by the tenderer clause by clause in this schedule. Unless mentioned in this schedule the tender shall be deemed to confirm to the specification.

Sr.No.	Clause Number	Details of deviations	Justification

NAME OF FIRM_____

NAME & SIGNATURE OF TENDERER_____

DESIGNATION_____

DATE_____

**TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT
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SCHEDULE – C

SCHEDULE OF TENDERERS' EXPERIENCE

The Bidder/Supplier shall furnish a list of similar orders executed under execution by him and name of persons to whom reference may be made by the purchaser in care such a reference is considered necessary.

Sr.No.	Name and Description of work executed	Month and year of commissioning	Client	Name of person

NAME OF FIRM_____

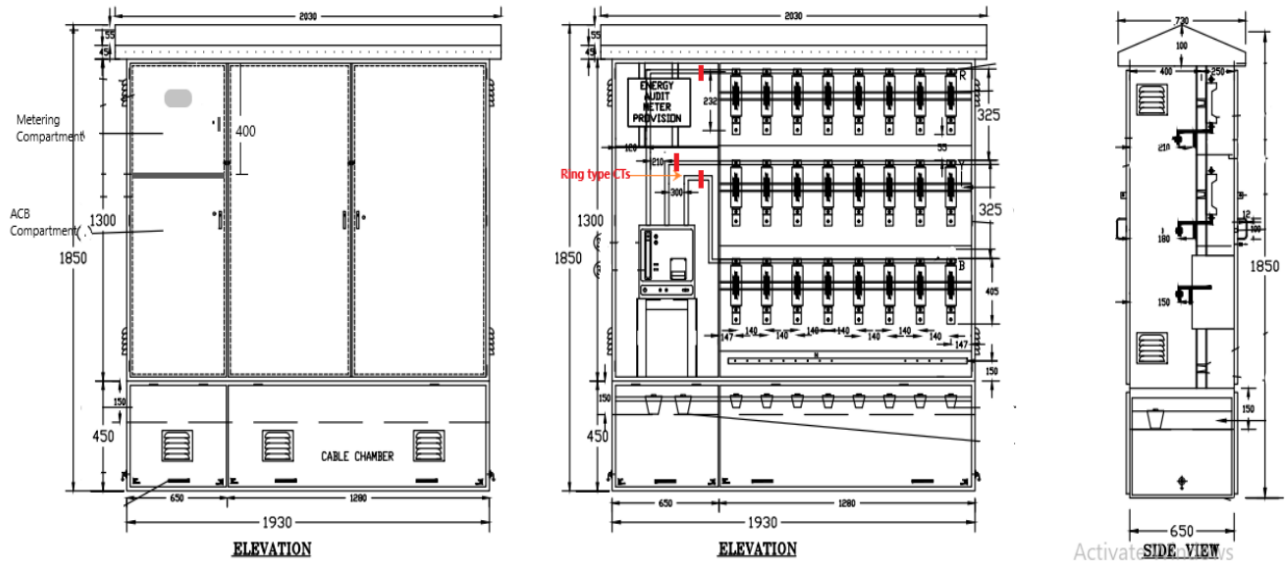
NAME & SIGNATURE OF TENDERER_____

DESIGNATION_____

DATE_____

TECHNICAL SPECIFICATION OF 6/8 WAY LT FEEDER PILLER WITH METER, AIR CIRCUIT BREAKER, MS/SMC BOX
INDICATIVE DRAWING

Drawing for 8 way LT Feeder Piller with provision of meter & ACB



LIST OF SERVICES

SR. NO.	SERVICE NAME	ACTIVITY NUMBER	UOM	SAC CODE	REQ. QTY	VERSION	MATERIAL TYPE
1	11/22/33 KV HT Line Preventive Service	PM.PREV.HT LINE	Activity unit	9954	1		null

Required Documents (To be uploaded online)
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Sr. No.	NAME	SECTION	ITEM	DESCRIPTION
1	Price Bid	Price Section	11/22/33 KV HT Line Preventive	Rates
2	Experience & Other Documents	Technical Section	11/22/33 KV HT Line Preventive	Experience & Other Documents
3	Financial Documents	Commercial Section		Financial Documents