

Tender Details		26-09-2024 06:23:04
Tender Code	MMD/T-HTM2-06/0924	
Tender Type	Procurement Tender	
Type Of Bid	Two Bid	
Description	Procurement of Van mounted modular automatic fault location system for low and medium voltage cables.	
Estimated Cost (In Lakhs)	520	
Basis of prices	Firm Price Basis	
Tender Validity	120	
Delivery Requirement (In Months)	4	
Tender on rate contract basis	NO	
Tender Fee (In INR)	10000	
GST In INR (@18% on Tender Fee: SAC No.	1800	
Total Tender Fee Amount including GST in INR.	11800	
Contact	Ramesh Vitthal Dethe , 9773287777 ,cemmcsedcl@gmail.com	
Pre-Qualifying Req	As per tender document	
Budget Type	Capex	
Scheme Code	NA	
Scheme Name	NA	
Department	Material Management Cell	
Office Type	HO	
Location Type	Corporate Office	
Designation	Executive Engineer(Distribution)	
Pre-Bid Meeting Address	meet.google.com/swo-jmbe-evz	
Bid Opening Address	OFFICE OF THE CHIEF ENGINEER(M.M.CELL) MATAERIAL MANAGEMENT CELL,MSEDCL,PRAKASHGAD,BANDRA EAST	
Version No	1	
Call for Deviation	YES	
Is Annexure C1 Applicable	YES	
Is Manufacturer Applicable	YES	
Is Trader Applicable	YES	
Minimum % of Offered Quantity	50	
Is Power Supplier Applicable	NO	
Tender Sale Start Date	26-09-2024 19:30	
Tender Sale End Date	17-10-2024 12:00	
Bid Start Date	26-09-2024 20:00	
Bid End Date	17-10-2024 15:00	
Pre-Bid Meeting Date	04-10-2024 16:00	
Techno-Commercial Bid opening on	17-10-2024 15:30	
Price Bid opening on	Will be declared later	
Annexure C1 Opening Date	Will be declared later	
Winner Selection Date	Will be declared later	
Can Bidder opt for EMD Exemption	YES	
Is Annexure-E [Consent for MSEDCL Standard Technical Specifications and GTP] Applicable ?	YES	



MATERIAL MANAGEMENT DEPARTMENT
 MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
 Tender No. **MMD/T-HTM2-06/0924**

BID NOTICE

The Chief Engineer, Material Management Department (MMD), on behalf of Maharashtra State Electricity Distribution Company Limited (the Purchaser), hereby invites sealed bids from eligible bidders for procurement of Van mounted modular automatic fault location system for low and medium voltage cables. Entire bidding document is available online on <https://e-tender.mahadiscom.in/eatApp/> as per date indicated below. Any changes in the Bid Schedule, corrigendum etc. shall also be notified via MSEDCL's website. Prospective bidders are therefore requested to regularly check the website for any updates.

Tender No: MMD/T-HTM2-06/0924

Estimated Tender Cost: Rs. 5.20 Crs. (with GST)

Tender Fee: Rs. 10,000.00 + 18 % GST

The bidder should submit non-refundable Bid Fee of Rs. 10,000.00 + 18 % GST paid through online payment only, prior to the dead line for submission of bids as per the procedure laid by the MSEDCL.

Earnest Money Deposit: The bid must be accompanied with EMD @ 0.5 % (Half Percent) value of the offered quantity of the tender, in the form of BG as per the Annexure-M enclosed with tender documents having validity of 120 days from opening of tender. Interest shall not be allowed on EMD.

The scanned copy of the online payment receipt / Demand Drafts / BG should be uploaded (in e-tendering) and the Demand Drafts/BGs should be submitted to this office on or before submission date and time.

Calendar of Events Event	Date and Time
Begin Sale of Bid Document	26/09/2024
End Sale of Bid Document	17/10/2024
Date and time of submission of Bids	17/10 /2024 at 15:00 hrs.
Date and time of Bid Opening	17 /10/2024 at 15:30 hrs.
Date and time of Pre bid meeting	04/10/2024 at 16:00 hrs.

Pre bid Meeting Link: meet.google.com/swo-jmbe-evz

THE CHIEF ENGINEER
Maharashtra State Electricity Distribution Co. Ltd.
Material Management Department,
Plot No. G-9, "Prakashgad" First floor, Prof. A. K. Marg,
Bandra(E), Mumbai-400051.
E-mail- cemmcmsedcl@gmail.com

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.

TENDER FOR

**Procurement of Van Mounted Modular Automatic Fault Location
System For Low and Medium Voltage Cables.**

Tender No: **MMD/T-HTM2-06/0924**



**OFFICE OF THE CHIEF ENGINEER,
Maharashtra State Electricity Distribution Co. Ltd.
Material Management Department,
Plot No. G-9, "Prakashgad" First floor, Prof. A. K. Marg,
Bandra (E), Mumbai - 400 051.
E-mail- cemmcmsedcl@gmail.com**

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SECTION-I

INVITATION TO TENDER AND INSTRUCTION TO BIDDERS

TENDER FORM (NOT TRANSFERABLE)

(TO BE SUBMITTED ONLINE DULY FILLED IN AND DIGITALLY SIGNED)

To be submitted online not later than the date mentioned in the tender details. For participating in tender opening, the bidder can login at the specified time and date of opening of the tender, if he desires so.

The bidder is requested to quote his lowest rates F.O.R. destination for the supply of materials. The material is required at various places in the State of Maharashtra. The tender documents duly filled-in and digitally signed, are to be submitted online before due time and date of the submission of tender in prescribed form.

The modifications made to the terms and conditions shall applicable to this tender only.

FOR CHIEF ENGINEER (M.M.DEPARTMENT)

INSTRUCTIONS TO THE BIDDERS

I SCOPE OF WORK:

The scope of work under this tender is for design, engineering (wherever applicable), manufacture, inspection and testing before dispatch, packing and supply of Van mounted modular fault location system for low and medium voltage cables as specified in Annexure-D / Technical Specifications, at various destination sites / stores Centers of the Purchaser in Maharashtra. The quantity for procurement is as below.

Sr. No.	Item Code	Material Description	Quantity Tendered in No.	Amt. in Cr. (with GST)
1	77006661014	Van mounted modular automatic fault location system for low and medium voltage cables.	04	5.20

The Actual Quantity of the Van mounted modular automatic fault location system for low and medium voltage cables that will be procured may vary depending upon the site requirement. The Quantity mentioned as above against various capacities can undergo change. However, the Minimum Assured Quantity for procurement shall be 50 % of the total tendered quantity as mentioned above.

The list of various destination sites / stores centers of the Purchaser is enclosed as Annexure-K.

II Qualifying Requirements:

1. The bidder shall be an original equipment manufacturer / sole authorized dealer/accredited representative of manufacturer of the tendered item. In case of dealers /authorized representative, an authorization letter for quoting in this tender with mentioned tender no. shall be obtained from original manufacturer and shall be submitted along with this bid.
2. In case the bidder is not an original manufacturer, the operating experience of the bidder shall be more than 5 years for supplying and providing after sales support of similar or better equipment to NABL Accredited Laboratories /Govt. Depts. /Power Utilities in India or Aboard.
3. Experience: The bidder should submit minimum 5 Job copies of orders executed and order completion certificate for Van mounted modular automatic fault location system for low and medium voltage cables.
4. The Bidder shall have successfully executed as a prime contractor at least three (3) contracts involving supply, installation, testing and commissioning of Van mounted modular fault location system for low and medium voltage cables within the last five (5) years as of the last date of bid submission.
5. Type test certificate: For all tendered material, valid Type test certificates as per MSEDCL's technical specifications (Annexure-D) which are carried out within 5 years from Laboratories which are accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL) of Govt. of India such as CPRI and ERDA shall be

- uploaded in the bid. Bids without the Type test certificates shall not be considered for further evaluation.
6. Turnover: The Average annual turnover of last three financial years of the bidder shall be 30 % of the offered value. The bidder has to submit the annual turnover certificate of the company of last three financial years (i.e. 2021-22, 2022-23 & 2023-24).
 7. The bidder or their principals / manufacturer shall have the necessary minimum testing facilities for carrying out various acceptance and routine tests. A list of machinery / equipment and testing facility available at their Works shall also be furnished along with the offer.
 8. ISO certification: The bidder shall have ISO certification for quality management system & environmental management system. (ISO 9001 & ISO 14001)
 9. Bidder or their principals shall have fully equipped technical support office / laboratory for facilities of testing, calibration, adjustment, diagnosis and repair of equipment in India itself. Bidder or their principals shall have technical support staff posted in India for technical support after sale.
 10. The Bidder or their principals shall have their own service centers and trained engineers dedicated for trouble shooting and technical support permanently posted in India. The bidder shall enclose necessary proof that the firm / the manufacturer / the principal the bidder is participating for, has necessary facility to adjust and calibrate the offered measuring units within the country. The list of Plant and Machinery, tools and tackles to carry out services shall be submitted along with the offer.
 11. The offers of Indian subsidiary company, whose parent company is located abroad fulfilling the qualifying requirements as above, shall be considered provided the Indian participant subsidiary company fulfills the experience of five years of supply or manufacturing of similar or better equipment to National / International accredited laboratories or power utilities. However, the conditions of turnover and supply of minimum quantity of similar or better equipment to National / International accredited laboratories or power utilities as brought out elsewhere in tender documents can be fulfilled by the parent company located abroad on behalf of their Indian subsidiary company. The parent company shall furnish undertaking for accepting responsibility for supplying quality equipment as per MSEDCL'S specifications and execution of the contract on behalf of its India based subsidiary unit who has participated in the tender in Annexure U-I.
 12. Following Documents should be submitted by the bidder along with the bid.
 - (a) Documentary evidence showing annual turnover of last 3 years, certified by Chartered Accountant for preceding three financial years (i.e. 2021-22, 2022-23 & 2023-24).
 - (b) Copies of orders executed by the bidder, the Certificate from the purchaser with regards to successful execution of the order for preceding three financial years and Format-6 for Experience.
 - (c) List of orders in hand.
 - (d) Documentary evidence (for e.g. MSE/NSIC Certificate /Chartered Accountant/ Chartered Engineer Certificate etc.) for manufacturing capacity to cover the quantity offered by the bidder and considering orders in hand.

- (e) List of in house manufacturing and testing facilities.
- (f) Certificate from Chartered Accountant for not having controlling stake in more than one entity as per clause no VIII (B).
- (g) Type test certificates from NABL accredited lab such as CPRI, ERDA, ERTL, etc. valid for a period of 5 years prior to last date of submission of bid.
- (h) Format-1: Quantity & Delivery Schedule
- (i) Annexure-E: Consent for supplying material as per MSEDCL's standard technical specifications if not filled the online GTP.
- (j) A detailed list of bought out items which got into the manufacture of shall be furnished indicating the name of the firms from whom these items are procured.
- (k) The bidder shall enclose the quality assurance plan invariably along with offer followed by him in respect of the bought out items, items manufactured by him & raw materials in process as well as final inspection, packing & marking.

III PRICES:

- (i) Prices are acceptable only on F.O.R. destination basis inclusive of Goods and Service Tax (GST for brevity) i.e. Integrated GST (IGST) for outside State / Central GST+ State GST (CGST+SGST) for within State, risk in transit, freight showing the break-up as desired in the Annexure 'B'. It shall be noted that quotations not conforming to F.O.R. destination basis inclusive of IGST/ (CGST+SGST) etc. and to the unit as specified in Annexure 'B', shall be rejected even though the bidder's offer may be lowest. The bidder shall quote Ex-Works Price and element of freight and insurance along with applicable rate of IGST/(CGST+SGST). The F.O.R. destination price i.e. up to site or the Store Centre of the purchaser as the case may be inclusive of IGST/(CGST+SGST), risk in transit and freight will be programmatically calculated. While raising the invoices, however, IGST/ (CGST+SGST) should be shown separately in the invoice raised.
- (ii) For each of the items quoted, bidder shall specify offered quantity. However, the offered quantity shall not be less than 50 % of the advertised quantity (Advertised quantity means the quantity required as indicated in Annexure 'B' / Price Bid) so as to deliver the said quantity within the delivery requirement of the Purchaser as indicated in the tender documents.

IV TAXES:

- (i) The Purchaser shall be registered under Goods and Service Tax Act and should comply with all the statutory compliance requirements of GST Law diligently.
- (ii) It is imperative for the bidder to indicate the amount of IGST/(CGST+SGST) included in their price while giving the break-up of F.O.R. destination price in Annexure 'B', failing which, the offer will be treated as ambiguous and will be rejected as per the provisions of clause-X of tender form.
- (iii) After awarding the contract, the supplier shall not charge any additional amount towards GST; during the currency of contract except statutory variation by Central / State Government in normal (full) rate of integrated GST. In case the GST is decreased than the rate indicated in the price bid, the benefits of the reduction in the GST shall be passed on to the purchaser. The increase in the GST rate due to increase in turnover during the contractual delivery period shall not be charged to the purchaser.

- (iv) Necessary documentary evidence for the GST claimed shall be submitted along with the bills.

V BASIS OF PRICES:

The bidder shall quote the prices on **firm price basis**, as has been specifically brought out in the tender Details. For any deviation in this regard, the offer shall be summarily rejected.

VI PRICE VARIATION: (Not Applicable)**VII DELIVERY:**

- (i) Bidder is requested to quote delivery F.O.R. DESTINATION only & only in the unit of the item specified in Annexure 'B' i.e. if the quantity is in sets or in Metric tones or in numbers or in kilometers or in coils, the rate of delivery shall only be in the same unit.

- (ii) The scheduled delivery period is of 4 months from the letter of award / AT & will be as below:

Commencement Period (CM): Min. 50 % of offered quantity within 2 months from the date of LOA/AT.

Completion Period (CP) : Balance offered quantity in 2 or less months in equated lots.

- (iii) The delivery period to be submitted by the bidder for the offered items & quantity shall be in the equated monthly lots from the date of LOA/AT. The bidder to submit the equated monthly lot schedule in the Format-1 (Quantity & Delivery Schedule)

The bidder is advised to get their type tests & drawing approval immediately after placement of LoA/AT so that the material is received by the purchaser well within the committed delivery period. If there is any delay in delivery of material as per schedule, the undelivered quantity as per schedule can be diverted to other good performing bidder.

- (iv) It is mandatory on the part of the tenderer to quote the delivery on monthly basis. If the offered delivery is indicated on quarterly basis, then the delivery would be counted proportionately in three equal installments per month for liabilities of the contract including payment of price variation and levy of liquidated damages.

- (v) Size mix for the purpose of delivery, when delivery is quoted in assorted items, shall be determined by the Purchaser while issuing the A/T or dispatch instructions and will be binding on the bidder. The Purchaser will also have the liberty of modifying the size mix for the purpose of delivery, even after the A/T is issued.

- (vi) The commencement of the delivery period (CM) shall include the period for the time required for pre dispatch inspection, Type Test tests in accordance with IS.

- (vii) MSEDCL may issue dispatch instructions as per requirement. The quantity demanded per consignee could be less than or equal to monthly lot specified in contract. Wherever as per demand, if the quantity to be supplied to a consignee in a particular month is less than monthly lot quantity, the said quantity will be treated as lot quantity for the purpose of delivery and payment.

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- (viii) MSEDCL may instruct the supplier to withhold entire or part of monthly supply of material for a specified period by giving two months advance instruction.
- (ix) Time being the essence of contract, the supplier shall strictly maintain monthly delivery schedule.

VIII OFFERING THE MATERIAL:

- A. The bidder may offer the material as per MSEDCL standard technical specifications as per Annexure-D. In case the material is being offered as per MSEDCL Standard Technical Specifications, the bidder does not have to fill the entire guaranteed technical particular (GTP). The bidder shall only submit the consent in this regard as given in Annexure-E and submit the type test reports and drawings for approval of MSEDCL. However; the bidders, who do not want to offer the material as per MSEDCL Standard Technical Specifications and have deviations in lieu of Indian Standards, will have to fill the entire GTP.
- B. The person / entity should not have controlling stake in more than one entity applied for the tender / bid. Necessary certificate duly certified by Chartered Accountant to this effect shall be submitted along with the tender documents.
- C. Factory address, from which the bidder intends to supply the material against the tender, shall be as indicated in the latest approved online vendor registration form on e-tendering through which the vendor is submitting the offer.
- D. The bidder shall offer the rates, taxes as applicable for the factory location indicated in his latest approved online vendor registration form on e-tendering through which he is submitting his offer.

IX CONFLICT OF INTEREST

- (i) A bidder may be considered to have a conflict of interest with one or more parties in a bidding process if they:
- (ii) Have controlling shareholders in common; or
- (iii) Receive or have received any director in direct subsidy from any of them; or
- (iv) Have the same legal representative for purposes of a bid; or
- (v) Have a relationship with each other, directly or through common third parties, that puts the bidder in a position to have access to information about or influence on a bid of another bidder, or influence the decisions of the purchaser regarding the bidding process.

Bidders found to be in conflict of interest, shall be disqualified.

X QUOTATION:

- (i) Bidder shall quote his rate per unit specified in Annexure - 'B' / Price Bid in figures.
- (ii) Bidder's printed terms and conditions will not be considered as forming part of the tender.
- (iii) For each of the items quoted, bidder shall specify offered quantity. However, the offered quantity shall not be less than 50 % of the advertised quantity (Advertised quantity means the quantity required as indicated in Annexure 'B' / Price Bid) so as to deliver the said quantity within the delivery requirement of the Purchaser as indicated in the tender documents failing which the offer shall not be acceptable.

XI AMBIGUITY IN QUOTATION:

The bidder is requested to please make a note that incase of ambiguous terms in respect of offered quantity in Annexure- B and schedule- 'C', F.O.R. condition, GST, basis of price (i.e. firm / variable) or if the blanks are left out in the offer, the item / tender shall be rejected.

XII FILLING IN OF ANNEXURE:

The bidder is requested to ensure that the comments against each and every item/clause of Annexure shall be clearly filled in and answered. Any item/clause shall not be left blank or unanswered. If any item /clause are not applicable, the "Not Applicable (N.A.)" check box shall be selected.

XIII ADDITIONS/ALTERATIONS PROHIBITED:

The bidder shall not make any additions, alterations or changes in the Tender Form and the Conditions of Tender and Supply (Annexure- 'A') including the description of material mentioned in Annexure- 'B'. They should quote rate for the material described or click the check box 'Not quoted' against each of the item in Annexure- 'B' / Price Bid.

XIV B.I.S. LICENCE AND BEE CERTIFICATE : (If APPLICABLE)

A scanned copy of valid BIS License (full Copy) and BEE certifications for offered items ratings duly sealed and signed must be uploaded and submitted along with offer, failing which, the offer shall be rejected.

In case the validity of the BIS license is expiring before date of submission of tender, necessary documentary proof of having applied for renewal of validity of the BIS license must be uploaded while submitting the bid. The renewed copy of the BIS License shall be submitted before commencement of supply.

However, valid BIS license scan copy of offered material must be submitted by the qualifying bidders before commencement of supply, failing which their order will be cancelled with financial liability on supplier.

XV MANDATORY REQUIREMENT OF SUBMISSION OF OFFER:

The offer shall be submitted online duly filled in; attaching all the required documents, completed in all respects and should be digitally signed.

XVI SUBMISSION OF DRAWING and BILL OF MATERIAL:(If Applicable)

The bidder shall submit the drawings and bill of material conforming to the tender specification wherever applicable. In such cases, the offer without the drawings and bill of material shall not be evaluated and considered. The drawings and bill of material submitted along with the bid shall not be considered for evaluation of the offer but the drawings and bill of material of the successful bidder shall be scrutinized when the Purchaser decides to accept such bid. It may, however, be noted that Purchaser's action of evaluation of the tendered bid would not mean approval of the drawings and bill of material submitted along with the tender bid.

The bidder shall depute his authorized representative for discussion on the drawings, either immediately on hearing from the Purchaser or after receipt of Letter of Award. The formalities like submission of drawings, bill of material etc. and getting the same approved by the Purchaser shall be completed by the successful bidder within TEN DAYS from the date of Letter of Award of the contract. The approval to drawings complete in all respects mentioned in technical specifications (Annexure-D) will be accorded within SEVEN working

days thereafter. Any delay in this regard shall lead to cancellation of the Letter of Award at the risk and cost of the bidder. The supplies against the contract shall conform to the approved detailed drawings / bill of material and the detailed technical specifications.

XVII NAME OF AUTHORIZED REPRESENTATIVE:

The digital certificate shall be in the name of person authorized by the firm. In case, the digital certificate is compromised or the person holding the digital certificate is no longer authorized to digitally sign the tender, it is the responsibility of the bidder to revoke this certificate and obtain the fresh certificate. While submitting the bids online only valid digital certificate shall be used. The vendors are requested to check the validity of digital signature and prior to the expiry date and they are requested to get their Digital signature key validated before expiry of the same. MSEDCL shall not be responsible for Non-submission of any of the Bids (Techno Commercial Bid, Deviation Bid, Price Bid, and Annexure - C-1) by vendors due to expired/Invalid Digital signature.

The bidder is responsible for all the contractual liabilities and responsibilities thereof.

In case the bidder authorizes the representative to deal on behalf of the bidder, the name and address of such person should be informed to the purchaser. The bidder shall submit the power of Attorney in favour of representative duly executed before the Notary. In the absence of the Power of Attorney, the purchaser shall not deal with the representative.

XVIII (A) OFFER OF MICRO and SMALL ENTERPRISES AND OTHER UNITS:

The bidder registered with Directorate of Industries of Government of Maharashtra for manufacturing the items tendered/offered and those who have attached valid certificate at the time of vendor registration shall be considered for concessions applicable and procurement of reserved items as per GoM G. R. dtd. 30-10-2015 amended up to date. These benefits shall be available only to those items approved during the registration process and subsequent updates in registration up to the submission of this tender.

Based on concession of Central Government's Micro and Small Enterprises office order dtd. 23-03-2012, 241 items are being kept reserved. As per above reservation of items 100 % reserved items to be purchased from Micro and Small Enterprises out of which 20 % reserved items to be purchased from S.C./S.T. enterprises. Reservation is applicable for a limited period unless and until re-examined. If Micro and Small Enterprises participated in the tender and the tendered item is not reserved, then 20 % order with L-1 rate to be given to Micro and Small Enterprises and out of this 20 %, 4 % to be given to S.C. /S.T. enterprises.

If there are any specific Government Directives such as reservation of items for units in Maharashtra, non-eligibility of preference to SSI units etc. for particular items, price and purchase preference etc. the same would be applicable irrespective of the fact that it has not been specifically incorporated in the tender notice and/or tender documents.

(B) PREFERENCE TO INDUSTRIAL UNITS LOCATED IN MAHARASHTRA AND OFFERS BY MATCHING RATES WITH LOWEST ACCEPTABLE BIDDER

The lowest acceptable rate will be the unit rate worked out without considering IGST/(CGST+SGST) as applicable and the same rate will be considered as applicable to the respective bidder who has agreed to accept order at lowest acceptable rate.

(C) Matching of Rates

The confirmation for acceptance of the order at the lowest acceptable rate shall be given in the format as per Annexure -'C-1' of the tender documents by the bidder other than L-1. The same should be submitted online on or before the due time and date of submission of Annexure- 'C-1'. The confirmation shall be opened online on due time and date of opening of Annexure-'C-1'. Schedule for submission and opening of Annexure-'C-1' shall be communicated separately by e-mail and on the website. Though confirmation in Annexure-'C-1' as above is called from all the qualified bidders, the bidders, who quoted rates within the range of 5 % in comparison with the lowest acceptable rates, shall only be considered and their Annexure `C-1' will be opened on the date and time intimated subsequently in the presence of bidders who chose to be present. Provided, however, that the Annexure `C-1' of the bidders, who have quoted above the range of 5 % in comparison with the lowest acceptable rates, shall also be considered in case the aforesaid bidders within the range of 5 % are unable to fulfill the quantity requirement. In that case also, the date of opening of Annexure- `C-1' will be intimated to the bidders

In the above confirmation, if the bidder indicates any rate, then the confirmation given by the bidder will not be considered as valid.

Above confirmation for the quantity less than as indicated in Clause X (iii) (offered quantity shall not be less than 50 %) of Instructions to the bidder shall not be acceptable.

The prices indicated in the original offer shall not be considered as valid once offer for acceptance of order by matching rates is given. In the event of withdrawal of offer by matching rates within the validity period, the entire offer against the tender shall become invalid and shall be summarily rejected and the earnest money paid by the bidder shall be forfeited.

The lowest acceptable tenderer would be considered for awarding order for quantity subject to his capacity and capability as under.

(D) Quantity Allocation:

- 1) If L-1 bidder is within Maharashtra State and if total tender quantity for quoted item is offered by L-1 then 100 % quantity will be awarded to L-1 bidder for quoted item.
- 2) If L-1 bidder is within Maharashtra State and offered quantity is less than the tender quantity for quoted item then,
 - a) Quantity allotted to L-1 bidder will be equal to quantity offered by him.
 - b) Balance quantity after allotment as (a) above, will be distributed among Maharashtra State bidders as per their price ranking (if ready to match with L-1 rate) subject to maximum 50 % of total tender quantity for quoted item to Maharashtra State bidders including L-1 bidder.
 - c) Any balance quantity after allotment as (a) & (b) above, will be distributed as per their price ranking (if ready to match with L-1 rate) irrespective of bidder is Maharashtra or out of Maharashtra state bidder including partial allotment if any to Maharashtra bidder in (b) above.
- 3) If L-1 bidder is outside Maharashtra State then,

- a) If the L-1 bidder offered more than 50 % of tendered quantity for quoted item then maximum of 50 % of tender quantity for quoted item will be allotted to L-1 bidder.
- b) If the L-1 bidder offered less than 50 % of tendered quantity for quoted item then quantity equal to offered quantity for quoted item will be allotted to L-1 bidder.
- c) Balance quantity after allotment as (a) or (b) above, will be distributed among Maharashtra State bidders as per their price ranking for maximum 50 % of required quantity. (If ready to match with L-1 rate).
- d) Any balance quantity after allotment as (a) ,(b) & (c) above, will be distributed as per their price ranking (if ready to match with L-1 rate) irrespective of bidder is Maharashtra or out of Maharashtra state bidder including partial allotment if any.
- e) If all bidders including L-1 bidder are from outside Maharashtra state then if offered quantity of L-1 bidder is 100 % then entire quantity will be allotted to L-1 bidder and if quantity offered by L-1 bidder is less than 100 %, then balance quantity will be allocated to remaining bidder who matched the L-1 rates as per price ranking & quantity quoted.
- f) In spite of above the quantity allocation will be at the sole discretion of MSEDCL.

XIX EARNEST MONEY DEPOSIT (EMD):

The bidder should pay the Earnest Money @ 0.5 % (Half Percent) of the offered quantity of tender in the form of Demand Draft/BG as per as per the Annexure- M enclosed with tender documents having validity of 120 days from opening of tender. Reference to the tender no. should be given in case the EMD is paid by demand draft before the due date of the tender and the relevant deposit amount mentioned in the tender. Interest shall not be allowed on EMD. Earnest money deposit shall be forfeited (i) in case the bidder withdraws the tender / offer during the validity period (ii) in case the bidder fails to pay the performance deposit if the contract is awarded.

However, bidders from the following categories are exempted from payment of earnest money deposit.

- 1) All Government and semi Government institutions under Govt. of Maharashtra and Zilla Parishad in Maharashtra and fully owned undertaking of any State Govt. and Govt. of India only for the items manufactured by such institutions.
- 2) Micro and Small Enterprises registered under Micro, Small and Medium Enterprises Development Act-2006 only for the items mentioned in their permanent registration certificate at the time of vendor registration.
- 3) The bidder registered with N.S.I.C. and those who have attached valid N.S.I.C. Registration Certificate for the items mentioned in their permanent registration certificate at the time of vendor registration.

The benefits mentioned in (1) to (3) above shall be available only to those items approved during the registration process and subsequent updates in registration up to the date of submission of this tender.

Exempted bidders should upload a latest valid certificate issued by any approved body of 'Ministry of Small and Medium Enterprises' (MSME) such as 'National Small Industries Corporation' (NSIC) or 'District Industries Centre' (DIC) for EMD exemption.

XX SIGNING OF THE TENDER DOCUMENTS:

Offer shall be submitted along with the tender documents and duly filled in with all Sections / Annexures / Appendixes / Schedules etc. The offer shall be signed with valid digital signature.

XXI SUBMISSION / SUPERSCRIBING OF THE TENDER DOCUMENTS:

The offer is to be submitted as follows.

(a) Online Submission:

- (i) Techno-Commercial Bid (Part-I): This part shall contain all technical and commercial aspects of the bid and documents supporting the same except the Price Bid.

The bidder is requested to please make a note that in case of the Price Bid (Part-II) is submitted instead of Techno-Commercial Bid in Part-I or submitted Price Bid (Part-II) along with Techno-Commercial Bid in Part-I, the offer shall be rejected.

- (ii) Price Bid (Part-II)

This part shall contain only the Price Bid strictly in the prescribed format, i.e. Annexure -'B'.

(b) Off line Submission:

Physical submission of documents (Part-III) – Not mandatory.

Envelope for this part shall contain documents like Type Test Reports, Drawings, Bill of Material, Catalogues etc. wherever applicable as per technical specification and they shall be scanned and these scanned documents to be taken into PDF format on Pen Drive (2 sets) and are to be submitted to EE (HTM-2) in the office of Chief Engineer, Material Management Department in sealed envelope on or before due date and time of submission.

METHOD OF SUBMISSION OF PART-III AND THEIR OPENING:

This envelope shall be individually sealed and shall be superscribed with the name and address of bidders and the following information before posting or delivering the same:

- i. Tender No.
- ii. Due date and time of submission.
- iii. Due date and time of opening.

Envelope as above shall be submitted on or before the prescribed due date and time of submission and shall be opened on due date and time of opening as prescribed.

In case of bidders whose techno-commercial bid is acceptable, their Price Bids will be opened at a later date. This date shall be intimated to such bidders separately.

XXII TIMELY SUBMISSION OF OFFER:

- (i) The bid is to be submitted online on or before due date and time of submission to the Purchaser at website.

- (ii) It is advisable to submit the digitally signed offer sufficiently in advance of due date and time so as to avoid last minute congestion of network / server.
- (iii) Offer received after the due date and time of submission shall not be accepted.
- (iv) In case, the due date of opening of tender happens to be holiday, the offer shall be opened on the next working day at the same time.

XXIII PURCHASERS RIGHT:

The Purchaser reserves the right to reject any offer without assigning any reason whatsoever.

The Purchaser reserves the right to make any changes in terms & condition at any stage of the process without assigning any reason whatsoever.

If any type of legal litigation against MSEDCL is pending in any court/Forum against/by the bidder or its sister concern/Director/Partner/Proprietor, then purchaser reserves the right to reject partly or fully their bid without assigning any reasons thereof.

Bidder has to submit the declaration as per Annexure-F regarding no any type of legal litigation against MSEDCL is pending in any court/Forum against/by the bidder or its sister concern/Director/Partner/Proprietor.

XXIV DISREGARD OF TENDER CONDITIONS:

Tender containing any deviations / additions / alterations / changes in the conditions of the tender and supply as stated in Annexure- 'A', 'B', 'C-I', 'D', 'E', 'G' and schedule- 'C' shall not be acceptable.

The bidder having digitally signed all the tender documents indicates any deviations / additions / alterations / changes in the covering letter, unrelated annexure and schedules of the offer or elsewhere, the same shall be ignored and the offer shall be treated as meeting with all specified tender conditions.

XXV PROHIBITION FOR POST TENDER CORRESPONDENCE:

The Bidder should also note that no correspondence shall be entertained or considered after the placement of LoA/AT unless otherwise sought by the Purchaser.

XXVI RIGHT TO ORDER OUT QUANTITY IN VARIANCE TO OFFERED QUANTITY:

The Purchaser reserves the right to order out / procure any quantity in excess of the offered quantity with change in delivery period with mutual consent. The quantity specified may be for dispatch to one destination or several places.

XXVII ACCEPTANCE OF TENDER:

The Purchaser does not bind itself to accept the lowest or any tender; neither will any reasons be assigned for the rejection of any tender or part of tender. It is also not binding on the Purchaser to disclose any analysis report on tender/samples. The bidder on his part binds himself to supply any item or items selected from his offer in part or whole at the option of the Purchaser.

XXVIII NOTIFICATION OF AWARD:

Notification of Award of contract will be made by a letter of Award, to be sent by registered post or given by hand or by E-mail to the successful bidder by the Purchaser. It could also be made by e-mail or by Fax to be confirmed in writing by registered post to the successful

bidder by the Purchaser. Acceptance of the same to be conveyed within 3 working days by the supplier.

XXIX EARNEST MONEY OF UNSUCCESSFUL BIDDER:

Earnest money deposit will be returned to the unsuccessful bidder by RTGS within 7 (seven) working days after the tender has been decided and on submission of receipt of E.M.D. payment to the G.M. (F & A-SB), MSEDCL, Prakashgad, Prof. A.K. Marg, Bandra (East), Mumbai-400051. Earnest money deposit in the form of BG will be returned to the unsuccessful bidder within seven (7) working days by Chief Engineer, Material Management Department after the tender has been decided.

XXX VALIDITY OF OFFERS:

The bidder shall keep the offer valid for acceptance up to and including last date of calendar month, covering the date of completion of 120 days (one hundred and Twenty days) from the date of opening of the tender and shall also agree to extend the period of validity required by the Purchaser. The bidder shall not be allowed to modify or change the conditions of the tender while extending the period of validity.

XXXI DECLARATION FROM BIDDER:

In order to ensure participation of reliable and honest bidders / contractors / vendors, etc. the bidder shall submit the declaration along with the bid in Annexure-I.

XXXII CORRUPT OR FRAUDULENT PRACTICES:

The Maharashtra State Electricity Distribution Company Ltd. and the State require that bidders / suppliers / contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, MSEDCL:

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

XXXIII INFLUENCE:

Any efforts by the bidders to influence the owner during evaluation process before order placement will be rejected. Similarly deviation in the term of payments, penalty, performance deposit, delivery period will be treated as non-responsive quotation/offer and will not be considered for evaluation/order placement.

Bidder shall submit the undertaking certifying that they have not approached any one for undue influence (Format-2).

XXXIV TENDER FEES EXEMPTION:

Tender fee to be paid at the time of uploading / online submission of the tender. Bidders from the following categories are exempted from payment of Tender fees:

- 1) All Government and semi Government institutions under Govt. of Maharashtra and Zilla Parishad in Maharashtra and fully owned undertaking of any State Govt. and Govt. of India only for the items manufactured by such institutions.
- 2) Micro and Small Enterprises registered under Micro, Small and Medium Enterprises Development Act-2006 only for the items mentioned in their permanent registration certificate at the time of vendor registration.
- 3) The bidder registered with N.S.I.C. and those who have attached valid N.S.I.C. Registration Certificate at the time of vendor registration.

The benefits mentioned in (1) to (3) above shall be available only to those items approved during the registration process and subsequent updates in registration up to the date of submission of this tender.

The tender fee paid against the particular tender shall not be refunded / transferred /adjusted at all.

XXXV PRE-BID MEETING:

- 1) The bidder or its official representative is invited to attend pre-bid meeting (s) which will take place at the place, date and time designated in the Bidding Data.
- 2) The purpose of the pre-bid meeting(s) will be to present the salient features of the bidding documents to the bidders, including the bid submittal requirements, the Conditions of Contract (including payment terms and conditions), the technical features of the project, and to clarify issues and to answer questions on any matter that may be raised by the bidders.
- 3) The bidder is advised to visit the Site and study the bid document thoroughly, and is requested to submit any questions in writing or by E-mail (as per Format-8), to reach the Employer not later than one day after the pre-bid meeting.

Minutes of the meetings, including the text of the questions raised and the responses given will be transmitted without delay to all the prospective bidders through the website <https://etender.mahadiscom.in/eatApp/>. Any modification of the bidding documents listed which may become necessary as a result of the pre-bid meetings shall be made by the Purchaser exclusively through the issue of an Addendum pursuant to Clause and not through the minutes of the pre-bid meetings.

- 4) Nonattendance at the pre-bid meeting will not be a cause for disqualification of a bidder. Nevertheless, senior representatives of the bidders are strongly encouraged to participate in the pre-bid meeting to help ensure that they fully understand the key concerns of the Employer and the Employer's requirements.

XXXVI CLARIFICATION ON DEVIATIONS:

The purchaser, if necessary, shall obtain clarifications on deviations within 1 or 2 working days by requesting for such information from any or all the bidders in writing, as may be necessary.

The same should be submitted online on or before the due time and date of submission of Deviation Bid. The clarification shall be opened online on due time and date of opening of Deviation Bid.

The Schedule for submission and opening of Deviation Bid shall be communicated by auto generated e-mail of the e-tender website.(Format-5)

CERTIFICATE:

I / We agree to supply the materials at the rates herein tendered by me / us subject to the conditions of tender and supply in Annexure- 'A' of this tender which I / We have carefully read and which I / we have thoroughly understood and to which I / we agree. I / we hereby agree to keep this offer open up to the date mentioned in tender details and shall be bound by communication of acceptance dispatched within the validity period.

Seal and Signature of bidder

(SECTION II)**ANNEXURE 'A'****CONDITIONS OF TENDER AND SUPPLY****1) EFFECT OF CONTRACT:**

The contract shall be considered as having come in to force and shall be in operation for a period of 4 months from the date of Notification of Award. The bidder whose offer is accepted is hereinafter called "the supplier".

2) QUALITY OF SUPPLIES:

All materials supplied shall be strictly as per specification laid down by MSEDCL and in accordance with the approved standard Guaranteed Technical Particulars (GTP), drawings and type test reports.

3) MATERIAL AND COMPONENTS:

The material and components not specifically stated in this specification but which are necessary for satisfactory operation of the equipment / items specified, shall be deemed to be included unless specifically excluded and shall be supplied without any extra cost.

4) (A) ACCEPTANCE OF SUPPLIES / INSPECTION:

- i) The supplier shall normally offer at a time, the entire quantity required to be delivered every month as per the delivery schedule indicated at Annexure- 'B' of A/T for the purpose of inspection by the Purchaser.

Time being the essence of contract; the supplier shall strictly maintain the monthly delivery schedule.

- ii) Materials shall be inspected by the Purchaser's Executive Engineer / or the representative authorized by the Purchaser before dispatch. An intimation in the prescribed Proforma about the date on which materials shall be ready for inspection, indicating quantity, shall have to be given to the Executive Engineer / or the representative authorized by the Purchaser before dispatch so as to reach him 10 working days in advance, failing which, the supplier shall be responsible for delay in delivery on account of inspection.

The intimation in the prescribed proforma (Inspection call) shall be forwarded on MSEDCL Material Inspection Portal i.e. <https://mip.mahadiscom.in/InspectionPortal/>. Inspection calls sent via any other media will not be entertained and the supplier will be responsible for delay in delivery on account of inspection.

On receipt of such intimation, the materials shall be inspected within 10 working days. The materials shall be dispatched only after inspection and approval of same by the Inspector. The inspection approval letter shall be valid for a period of 30 days from the date of issue of letter to enable the supplier pack the material and arrange transportation thereof so that material should be reached at the respective consignee within scheduled delivery period. The validity of 30 days mentioned in inspection approval letter shall stand for validity of material approval only and not for due date of delivery.

After this period of 30 days, the validity of this inspection approval letter will lapse. If the material is not reached within scheduled delivery period to respective consignees, the

approval of purchaser is to be sought by the supplier for revalidation of inspection approval letter at the sole discretion of MSEDCL.

For quantity supplied beyond contractual delivery period, negative price variation and statutory variations shall be applicable. However, the positive price variation and statutory variations for quantity supplied beyond contractual delivery period shall not be allowed unless the delayed delivery is attributed to MSEDCL.

- iii) The supplier shall notify the names of the consignees as per DI, to whom the inspected lot would be dispatched. The supplier shall get the copies of inspection approval letter together with witness certificate duly signed by the concerned Inspecting Officer and also mention reference or inspection approval letter on the challan / invoice, failing which any delay occurred in getting the S.R. Notes from the consignees, would be solely to supplier's account. The inspection report shall be filled in online on the same day by the Inspector from the site on MSEDCL web portal after the inspection.
- iv) Factory address, from which the bidder has to supply the material, shall be as indicated in the latest approved on line vendor registration form on e-tendering through which the bidder has submitted the offer.
- v) The supplier shall offer inspection call intimation of readiness of material as per the monthly schedule only. In the event, during the inspection by the Purchaser's Inspecting Officer, if it is observed that the quantity actually offered for inspection is less than the quantity indicated for inspection in the inspection call, the Purchaser shall be entitled to recover from the supplier, the actual expenses incurred for arranging the inspection, and the supplier shall not dispute the amount to be recovered.
- vi) The supplier shall submit the test certificates / reports from any NABL approved laboratory or the laboratory of his own for the respective quantity of material, before dispatch. The material shall not be dispatched unless and until the test certificates are approved by the Purchaser.
- vii) All the necessary help shall be extended by the supplier to the authorized representative of the Purchaser to carry out testing of equipment / materials. Testing equipment's shall be arranged by the supplier.
- viii) MSEDCL may issue the dispatch instructions (DI) to deliver the ordered quantity to the bidders in Maharashtra within same districts of factory location of the supplier. However, it will not be binding on the MSEDCL; supplier has to deliver the material in other districts as per MSEDCL requirement. Further outside Maharashtra bidders have to deliver the material as per MSEDCL requirement to the designated consignee.
- ix) MSEDCL on its sole discretion may get material inspected and tested by third party NABL lab.

(B) Random Sample Testing Verification of material supplied to Stores after inspection:

(Not applicable)

5) RIGHT TO CARRY OUT INSPECTION DURING MANUFACTURING:

The Purchaser at its option, will inspect the material ordered during its process of manufacturing including the inspection of raw materials and will request the supplier to carry out such tests as may be necessary to ensure proper quality of the material. The

samples of components of the material shall be subject to quality check by the inspecting officer during manufacturing.

6) RIGHT TO REVISE DESPATCH INSTRUCTIONS, DELIVERY SCHEDULE AND TO DEFER SUPPLIES:

- i) The Purchaser reserves its right to revise the dispatch instructions issued along with the order, at the time of giving final clearance for dispatch after inspection of the material. If such change in destination is not intimated at the time of inspection approval or waiver of inspection, the supplier shall dispatch the material as per the dispatch instruction in accordance with A/T. indicated by him in the inspection call letter.
- ii) The Purchaser reserves its right to change the delivery schedule of the contract either by reducing the monthly lot up to 60 % of the agreed lot or by increasing the same up to 120 % of the agreed lot with prior two months' notice and the Purchaser shall not be liable to pay any compensation/damages on account of such change in delivery schedule.
- iii) The Purchaser reserves its right to defer the balance supply to be received against the order by giving two months' notice for a maximum period of 6 months. In such an event, the delivery period for the deferred material shall be deemed to be extended proportionate to the period of deferment and the Purchaser shall not be liable to pay any compensation/damages on account of such deferment of deliveries.

7) WAGON LOADS / TRUCK LOADS:

Quantity to be dispatched to consignee may not necessarily be in full wagon load / truck load and may be part load as per the Purchaser's requirement.

8) ROAD TRANSPORT:

In case the supplier prefers to dispatch the materials by road transport at his risk and cost and without any extra cost to the Purchaser, the materials shall be accepted only during office hours on working days. The supplier should ensure that the goods reach the stores in first half so as to arrange their unloading during office hours, failing which, the Purchaser shall not be liable for delay in unloading and for inconvenience caused to the transport contractor in the form of detention etc. Unloading at stores will be arranged by the consignee.

9) DESPATCH INTIMATION:

The supplier shall inform by e-mail to the consignee details of dispatch along with e-way bill receipt in hard and soft format giving RR / LR No., Wagon / Truck No., Type of wagon, craneable consignment or otherwise, total value of consignment, etc. to facilitate the consignee to arrange for clearance of goods on cemmcmsedcl@gmail.com.

10) BILL OF MATERIALS:

The supplier shall furnish bill of materials for each type of equipment / material offered which should be consistent with the drawing, specification and guaranteed technical particulars. The copies of the bill of materials should always be enclosed along with the bill submitted by the supplier for payment wherein he should specifically mention the materials / components dispatched out of the bill of materials, if the equipment is not sent in totality. Where the equipment / material to be supplied consist of more than one component, the supplier claiming payment for equipment / materials shall certify that all components of the equipment / material have been supplied in full for the quantity indicated in the invoice. Part payment shall not be allowed.

11) PACKING LIST:

Each package shall contain, in waterproof cover, the detailed list indicating the order reference, date, list of content and reference to the approved bill of materials. Each item contained in the package shall be described sufficiently to enable identification of the quantity, weight etc. There should not be any alteration in the packing list incorporated in the order, soft copy of the packing list should be sent to all the consignees and hard copy to G.M. (F and A-SB) should be enclosed with the bills along with other documents.

12) REPLACEMENT OF GOODS LOST, BROKEN OR DAMAGED:

Notwithstanding anything herein contained, the supplier undertakes to be responsible for the safe arrival of the materials in good condition and without any loss or damage at the final destination and until the same be actually delivered to and received by the Purchaser at its stores or other place of final destination and for this purpose, materials carried by railways or other carrier shall be deemed to be so carried at the risk of the supplier. In case of transit damage / shortages, the payment shall be made only for the quantity received in good and working condition and the consignee shall lodge claims with carriers and transfer the same to the supplier with all necessary documents for settlement of the same with carriers at the supplier's end. The transit damages / shortages / losses reported by the consignee shall be repaired / replaced by the supplier duly inspected, free of cost, within one month from the date of such intimation of breakages / shortages / losses without waiting for settlement of the claims from carrier or insurance co. etc.

However, rectification of minor defects at store locations are allowed for following minor defects only. (Nut bolt tightening etc.)

13) REPLACEMENT OF REJECTED MATERIALS:

If, on inspection at the final destination, the Purchaser discovers any loss in the materials supplied or that they are received in damaged condition or that in the opinion of the Purchaser, they are not of the contracted quality or specification, the Purchaser shall be entitled (notwithstanding that the property in the materials shall have passed on to the Purchaser) to refuse to accept or reject the materials altogether and claim damages or cancel the contract and buy its requirements from any of its suppliers stipulating earliest possible delivery and in accordance with its tender system against the supplier and recover the damages if any, from the supplier from any outstanding sums that may be due to the supplier from the Purchaser against this contract or against any of the contract entered into with the supplier, without prejudice to other rights and remedies available to it in law and reserving always to itself the right to forfeit the performance deposit placed by the supplier for the due fulfillment of the contract.

In case the stores / materials are found not in accordance with the prescribed specifications and / or the approved sample, the same will be rejected and the supplier shall replace the rejected stores / materials free of cost within one month from the date of intimation. The replacement of goods shall also have to be got inspected as per inspection clause. Further if the stores / equipment supplied becomes incomplete on account of either rejection or short supply of its components, the complete cost of the stores / equipment shall be recovered from supplier's bills without notice.

14) TOLERANCE IN QUANTITY TO BE SUPPLIED: (Not applicable)**15) MATERIAL DESPATCHED AND PROGRAMME:**

A statement as under indicating dispatches effected during every month shall be furnished to this office along with the programme of manufacturing / dispatches during the following two months. In the event of no dispatch, the statement shall contain nil information.

MONTHLY STATEMENT:

- I. Name of Supplier:
II. Reporting Month:

Sr. No.	A/T No.	Material	Item No. as Per A/T	Consignee	RR / LR Delivery Challan No. With date	Date of Actual Receipt of Material	Qty. Dispatched Between 26 th of Preceding Month and 25 th of the	Programme of supply during the next 2 months
1	2	3	4	5	6	7	8	9

Consolidated details of the above information shall be furnished to office of the Chief Engineer (M.M. Dept.) after completing the supplies of a particular order. The copy of this consolidated information shall invariably be forwarded to the respective consignees, failing which; security deposit paid against the contract shall not be released.

16) MATERIAL RECEIPT AND SUBMISSION OF BILLS AT CONSIGNEE:

On receipt of material at destination of consignee as per DI, Additional Executive Engineer (MM DEPT.) of respective store should ensure the receipt of material in good and healthy condition. While receiving the material, store in charge should ensure the receipt of material as per Dispatch Instructions issued by MM Dept. Further, the store in charge should ensure the receipt of original and scan copies of following documents:

- a) Tax invoice.
- b) Detailed packing list.
- c) Bill of Material.
- d) Delivery challan.
- e) E-way bill receipt.
- f) Dispatch document (RR/LR).

On confirmation and validity of above documents, store in charge will generate Provisional SR Note through ERP system immediately for receipt of material at stores thereof.

Where required by the Purchaser, the successful bidder must send the operation and maintenance manuals, test certificates, drawings etc. for the material ordered. These should be sent immediately after dispatch of material and a statement to that effect should be made in the invoice.

After Successful installation, commissioning and demonstration of Van mounted modular automatic fault location system at respective location/laboratories, store in charge will generate final SR note through ERP system within 7 working days.

17) PAYMENT OF BILLS:

(a) Terms of payment:

- a. The Bidder shall be paid 100 % payment within 60 days from the date of receipt of material in good condition, against Stores Receipt Notes (S.R. Notes) issued by the concerned consignee.
- b. However, in respect of only those entities which qualify for 45 days payment period under the Micro, Small and Medium Enterprises Development Act, 2006, 100 % payment of the Contract price will be paid within 45 days from the date of receipt of material at Consignee Store in good condition, against Stores Receipt Notes (S.R. Notes) issued by the concerned consignee.
- c. In respect of Micro, Small and Medium Enterprises, best efforts will be made for payment within 45 days from date of submission of invoice along with requisite documents after the delivery of entire lot. However, no claim for interest will be entertained in case of delay in payment beyond 45 days. The Micro, Small and Medium Enterprises who are ready to accept this payment term may only quote. No dispute in this regard will be entertained. After completion of order, the claims of whatsoever nature lodged after 30 days from the last date of payment will not be entertained.
- d. The payment shall be effected by A/C payee cheques / RTGS. Following documents as required in terms of order, will have to be forwarded to the G.M. (F&A-SB), Maharashtra State Electricity Distribution Co. Ltd., Prakashgad, Station Road, Bandra (East), Mumbai - 400 051 along with bills in triplicate to facilitate payment with a copy to the Chief Engineer of respective Zone.
 - (i) Invoice (on the basis of rates accepted as per A/T) issued in accordance with the provisions of GST Invoice Rules.
 - (ii) Supplementary Invoice / Bill for price variation claim if applicable with the relevant documents in support of P.V. claim.
 - (iii) Inspection and Test Certificate approval.
 - (iv) E Way Bill
 - (v) Copy of Acceptance letter of Permanent Bank Guarantee / Security Deposit Certificate.
 - (vi) Packing list.
 - (vii) Approved Bill of Material.
 - (viii) Certificate of having dispatched Operation and Maintenance Manual, copies of Test Certificates and approved drawings / Bill of Material to consignees wherever applicable.
- e. The supplier shall forward the original R.R. / L.R. direct to the consignee along with relevant documents. The original bill shall be forwarded to The G.M. (F&A-SB), MSEDCL, Prakashgad, Bandra (E) and marked ORIGINAL. The bill should indicate the GST registration no. and date held by him under the GST Law. The Purchaser shall not be responsible for delay in payment of bills if the supplier fails to comply with any of the above requirements.
- f. Supplier's copy of S.R. Note will be forwarded by the consignees through their respective Common Stores for supplier's record towards acknowledgement of

receipt of material. Accounts copy of S.R. Note will be forwarded by the respective Common Stores to G.M. (F&A-SB) for payment.

- g. Wherever the payment is to be effected against Material Receipt Intimation (MRI) and if the supplier fails to forward the documents such as inspection report, bill of materials, approved drawings, etc. wherever required along with the invoice to the respective consignees and no payment shall be made against the said MRI.
- h. The whole of the first lot as well as monthly lot when delivered in installments, the date of delivery and due date of payment will be counted after the receipt of the entire lot.
- i. Any amount more than Rs. One Lakh can be transferred to the bank Account of the supplier electronically. For this RTGS (Real Time Gross Settlement) provision, following information is to be furnished by the bidder in the required documents of the online offer.
 - 1. Name of the Company
 - 2. Name of the Bank and Branch with address where the amount is to be transferred.
 - 3. Current Account Number (15 digits)
 - 4. RTGS No. / (IFSC Code) (Indian Financial Security Code)
 - 5. MICR Code of the Bank
 - 6. Company's email ID
 - 7. Contact Name and Telephone No.

18) TAXES:

- (A) Notwithstanding the fact that contract price is inclusive of GST:
 - (i) GST shall be paid at actual on the basis of due date of delivery or actual date of supply whichever is lower against documentary evidence.
 - (ii) Variation in GST on bought out items shall not be entertained.
- (B) Structural changes in and due to 'Input Tax Credit' Scheme: -
 - (i) In the event of any structural change occurred in the Input Tax Credit Scheme after the date of submission of the tender till the currency of the contract, the benefit out of such change shall be passed on to the purchaser.
 - (ii) In the event of 'Input Tax Credit' being extended by the GST Law which were otherwise ineligible for claiming Input tax credit thereof, the seller should advise the purchaser about the additional benefits accrued or any variation thereof, through a letter containing such details and computation within such time as may be agreed between both the parties i.e. Supplier and MSEDCL.

19) DEDUCTION:

Any amount or amounts which become payable by the supplier to the purchaser under a particular contract, shall be deducted by the purchaser from any amount/amounts due or becoming due to the supplier under the same or any other contract and shall be adjusted against dues to the Purchaser.

20) GUARANTEE:

Material offered shall be guaranteed for a period of 66 months from the date of receipt of material at concern stores / consignee or 60 months from the date of commissioning whichever is earlier. In case of failure of material within the above guarantee period, tenderer shall make available other new at material free of cost stores for replacement within 30 days from the date of intimation from stores and lift the rejected material after replacement. If the defective material is not replaced/repared within the specified period as above, the Maharashtra State Electricity Distribution Company Ltd. shall recover/retain an equivalent end cost of material plus 15 % supervision charges from any of the bills of the supplier or encashing available performance bank guarantee submitted against guarantee period or through any available sources, till the return of the material. No interest will be paid on the amount so retained / recovered. In case of material / item not replaced within 45 days, penalty shall be imposed @ 0.5 % per week or part thereof maximum up to 10 % of the cost of undelivered material / equipment beyond specified time limit. In case of material / item not returned duly repaired within 5 months, total cost of the material / item along with penalty will be adjusted / recovered from the pending bills of the supplier or encashing available performance bank guarantee submitted against guarantee period or through any available sources with MSEDCL.

The clause itself shall be the notice to the supplier about encashment of PBG to adhere to the timelines.

The outage period, i.e. the period from the date of failure till material is replaced shall not be counted for arriving at the guarantee period.

Further, in case of repeated failures of equipment / material, the Purchaser reserves the right to debar / disqualify the supplier for future tenders / orders irrespective of grounds for debarring in MSEDCL debar policy.

21) LIFTING OF REJECTED/DAMAGED MATERIALS FROM STORES:

- (a) On failure to replace or repair the transit damaged or rejected material within one month from the date of intimation as required under tender, it shall be deemed to have concluded that such material is finally rejected. The damaged / rejected material shall be lifted by the supplier within 30 days from the date of receipt of notice to that effect from the concerned consignee on reimbursement to the Purchaser of the cost of the material / equipment, if any, already paid in terms of payment clause in the contract and actual expenses incurred by the consignee towards handling, demurrage / wharfage / undercharges, freight, insurance premium etc. The Purchaser shall not be responsible in any case for the loss, destruction, damage, deterioration of the material after expiry of the said 30 days period.
- (b) If the supplier fails to lift the material within this period, the material will remain with the Purchaser at the cost and risk of the supplier. Supplier shall, therefore, be liable to pay ground rent @ 0.1 % (Plus GST as may be applicable) per day of purchase cost of the material to be lifted from the date of intimation of rejection till the actual date of lifting.
- (c) The Purchaser will give 7 days' notice for lifting of rejected material and if not lifted, will be also free to Scrap / dispose of such material, after the period of said 37 days, by Public auction/Tender notice/Destruction as may be deemed fit and storage charges @ 0.1 % (Plus GST as may be applicable) per day of purchase cost will be recovered

from the date of intimation of rejection of materials till the date of realization of the sale amount/physical removal of the material besides the actual expenses incurred as referred to at (a) above. The amount received from the sale of scrap/rejected material will be adjusted in the penalty.

Notwithstanding what is contended in the foregoing clauses, the supplier shall be liable to pay the Purchaser the cost and expenses incurred by the Purchaser, if any, including ground rent and the same shall be appropriated and recovered from the sale proceeds.

22) LIQUIDATED DAMAGES FOR LATE DELIVERY:

In case the materials are not delivered within the period stipulated in the order, the supplier shall be liable to pay at the discretion of the competent authority of the Purchaser, the liquidated damages to the Purchaser @ 1 % per week or part of week on the value of delayed material / unexecuted quantity plus taxes as applicable, if any on the price subject to a maximum of cumulative ceiling of 10 % reckoned on the contract value of such complete portion or section of the plant, equipment or material delayed and also the portion supplied which could not be brought into commission due to any part thereof not having been delivered in time. In addition to above if bidder fails to supply the material within contractual delivery period continuously for 3 lots, then the order shall be liable for cancellation.

Due consideration may be given in the levy of liquidated damages for reasons absolutely beyond the control of the supplier, for which documentary evidence shall be produced to the satisfaction of the competent authority of the Purchaser.

The Purchaser shall be entitled to deduct/recover the amount of liquidated damages from the current bill payable to the supplier or any other amount due or payable to him against this or any other contract.

For computing the liquidated damages for delayed supplies, the date of railway receipt or the date of receipt of materials at stores in case of road transport, shall be the date of delivery.

In case the Purchaser does not arrange for inspection of material within 10 days from the date of receipt of inspection call in its office wherever applicable, the period of more than 10 days will not be considered for levy of liquidated damages. For computing the period taken for inspection in such cases, the relevant date mentioned in the inspection certificate issued by the inspecting officer would be considered.

23) ORDER PLACED ON TIME PREFERENCE BASIS (WHEREVER APPLICABLE):

In case of order on time preference basis (i.e. orders given at higher rate on delivery period considerations only) if order is given at higher rate of L-2 (or L-3 etc.), then the payment at higher rates will be made provided the firm makes supplies within the stipulated time period. In case of delay in supplies, the payment will be made at the rates offered by L-1. In addition, Clause No.22 above for Liquidated Damages for late delivery will also be applicable. However, the quantity allocation for order under this clause shall be at the sole discretion of MSEDCL and the specified quantity allocation for this tender will not be applicable in this case.

24) FORCE MAJEURE CLAUSE:

If, at any time, during the continuance of this contract the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restriction, strikes, lock-outs or acts of God (herein after referred to as "events"), provided notice of happening of any such eventuality is given by either party to the

other within 21 days from the date of occurrence thereof, neither party shall by reason of such event, be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance; and deliveries under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and the decision of the purchasing officer as to whether the deliveries have been so resumed or not, shall be final and conclusive, provided further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may at its option terminate the contract PROVIDED ALSO that if the contract is terminated under this clause, the purchaser shall be at liberty take over from the contract at a price to be fixed by the purchasing Officer which shall be final all unused, undamaged and acceptable materials, bought out components and stores in course of manufacture in the possession of the contractor at the time of such termination or such portion thereof as the purchaser may deem fit accepting such material, bought out components and stores as the contractor may with the concurrence of the purchaser elect to retain.

25) ACCEPTANCE OF LOWER FORD RATE OFFERED IN SUBSEQUENT TENDER :

During contractual delivery period of supply, the quoted rates with PV / without PV shall remain the same , however for same specification of material if the rates will receive lower in another subsequent tender in extended period of contract then it is binding on the supplier to supply the same material at lower rate for balance quantity of material i.e. in case if price bid of next subsequent tender of similar technical specification is opened and FORD rate found lower than the ongoing contracts this FORD rate shall be made applicable for the balance quantity beyond contractual delivery period. Further the purchaser reserves the right to allow the supplier to deliver the quantity or otherwise beyond the contractual delivery period.

However other stipulations of clause No. 22 of Section-II (i.e. Liquidated Damages For Late Delivery) i.e. Annexure-A will remain unchanged.

26) PERFORMANCE OF CONTRACT:

The Purchaser will not be in any way liable for non-performance either in whole or in part of any contract or for any delay in performance thereof in consequence of strikes, shortage, non-availability of raw materials, combination of labour or workmen or lockout, breakdown or accident to machinery or accidents of whatever nature, failure on the part of the railways to supply sufficient wagons to carry essential raw materials etc. and finished products from the stores, subject to the provision and stipulation made in condition No. 22 as stated above i.e. Liquidated damages for late delivery.

27) CONTRACT PERFORMANCE DEPOSIT:

- a. The supplier will have to furnish contract performance deposit as per Annexure - N in the form of unconditional and irrevocable BG within 15 days from the date of issue of LoA, as mentioned in Clause 27.b.
- b. The contract performance deposit shall be an amount equal to 5 % of the contract value and shall be valid for a period of 90 days beyond guarantee period of the last lot of the equipment supplied.
- c. The contract performance deposit shall be refunded within 90 days from the date of expiry of the guarantee period of the equipment supplied. The purchaser shall not be liable to pay any interest or compensation to the contractor for retaining the deposit after the end of the said period.

- d. The contract performance deposit is intended to secure the performance of the contract for guarantee period of the equipment supplied. However, it is not to be construed as limiting the damages stipulated in other clauses of the contract.

28) POWER OF ATTORNEY:

It will be obligatory on the supplier to communicate the revocation of Power of Attorney, if any, after submission of offer till the execution of contract failing which the act/s and action done by the agent / representative shall be deemed to be the valid act/s and action of the bidder / supplier.

29) SETTLEMENT OF DISPUTE:

Permanent Dispute Resolution Committee (PDRC) comprises of Chief Engineer (MM Dept.), one member of Accounts Department and representative of supplier will resolve the dispute arise if any.

30) JURISDICTION:

Any disputes or difference arising under, out of or in connection with this tender or contract if concluded, shall be subject to the exclusive jurisdiction of the "Courts" in Mumbai.

31) TERMINATION OF CONTRACT

- 1) The decision of the Purchaser shall be final as regards the acceptability of the stores supplied by the supplier and the Purchaser shall not be required to give any reason in writing or otherwise at any time for the rejection of the stores/materials.
- 2) In case the contractor/supplier fails to deliver the stores/material or any consignment thereof within the contracted period of delivery or in case the stores/materials are found not in accordance with the prescribed specification and the performance of the supplied material is not found satisfactory, the Purchaser shall exercise in discretionary power either,
 - a) to purchase from elsewhere, after giving 15 days due notice to the contractor, at the risk of contractor, such stores/material not so delivered or other of similar description, without cancelling the contract in respect of consignment not yet due for delivery,
 - OR
 - b) to cancel the contract reserving Purchaser's right to recover damages Plus GST as may be applicable.
 - c) notwithstanding that the powers under (a) and (b) referred above are in addition to the rights and remedy available to the Purchaser under the General Law of India relating to contract.
 - d) Purchaser reserves right to recover damages against risk purchase or 10 % value of non-supplied material plus applicable taxes, if any whichever is higher.

In the event of risk purchase of stores of similar description, the option of the Purchaser shall be final. In the event of action taken under (a) or (b) above, the supplier shall be liable for any loss which the Purchaser may sustain on that account but the supplier shall not be entitled to any saving on such purchases made against default.

- 3) Further contract can be terminated in case of sub-standard /poor quality material.

32) DEBAR OF MANUFACTURER FROM PARTICIPATION IN TENDERS OF MSEDCL:

The Policy and Procedure for Debarring of Agency from Business Dealings with MSEDCL is provided on MSEDCL website link (<https://www.mahadiscom.in/supplier/wp-content/uploads/2018/06/Final-Booklet-Single-Page.pdf>) and forms the parts of tender document.

In the event of fraudulent practices / non-compliance / non fulfillment of any obligation as required by MSEDCL at any stage of tendering or execution, the bidder is liable to be debarred / blacklisted at the discretion of MSEDCL.

33) TAX DEDUCTED AT SOURCE:

The purchaser shall deduct tax at source in accordance with the provisions of the laws as and when the same is notified.

ANNEXURE - "B"

QUANTITY, PRICE AND DELIVERY PERIOD

ANNEXURE - "B" to be submitted online against commercial bid; attached separately

ANNEXURE- 'C-I' (Matching Rate)

[To be submitted later on as per as per Clause XVIII (B) of Instructions]
CONFIRMATION FOR ACCEPTING ORDER BY MATCHING RATES WITH LOWEST
ACCEPTABLE BIDDER

APPLICABLE FOR INDUSTRIAL UNITS FROM MAHARASHTRA ONLY Marketing Assistance and Purchase Preference to the units from Maharashtra (refer Clause XVIII of Instructions to Bidders):-

- 1. (a) In case your unit is located in Maharashtra and the lowest acceptable rate received against the tender is from the unit outside Maharashtra, please confirm whether you are agreeable to accept order at that lowest acceptable rate limited to 50 % (fifty percent) of our requirement.

.....

APPLICABLE FOR ALL BIDDERS INCLUDING THOSE ELIGIBLE UNDER THE ABOVE CLAUSES:

- 1. (b) Please confirm whether you are agreeable to accept order at the lowest acceptable rate received against the tender.

.....

[Industrial units from Maharashtra can give option under 1(b) above for balance quantity]

Note:-

- 1. If the bidder gives the above confirmation for the quantity less than as indicated in Clause III (ii) of the Instructions to the Bidders, then the above confirmation shall not be acceptable.
- 2. Bidders may confirm matching for one or more items originally tendered.
- 3. Any withdrawal of confirmation for order by matching rate within validity of offer will render the entire offer invalid and shall be summarily rejected and Earnest Money Deposit shall stand forfeited.
- 4. A bidder will not be entitled to the benefit of offers by matching rates and will not be considered for orders if his original offer is rejected on the ground of ambiguity or because of not accepting /noncompliance of the terms and conditions of the tender.
- 5. In the above confirmation, if the bidder indicates any rate, then the above confirmation given by the bidder will not be considered as valid.

ANNEXURE- 'D'

TECHNICAL SPECIFICATION

As indicated in E-Tendering Technical Specification

ANNEXURE-E

(On bidders' letter head)

**CONSENT FOR SUPPLYING THE MATERIAL AS PER MSEDCL STANDARD
TECHNICAL SPECIFICATIONS & STANDARD GTP.**

I/We, have understood and checked the tender documents for supply of Van mounted modular automatic fault location system for low and medium voltage cables and have not found any errors in them.

We have submitted price bids for Tender No. MMD/T-HTM2-06/0924 for supply of Van mounted modular automatic fault location system for low and medium voltage cables.

We hereby declare and confirm that we accept the MSEDCL STANDARD TECHNICAL SPECIFICATIONS and agree to supply the material as per these STANDARD TECHNICAL SPECIFICATIONS if we are awarded the supply order.

In view of above, I/we have not filled the online GTP.

I/we am/ are enclosing the Type Test Report details covering all the type tests as per relevant IS as below.

Sr. No.	Details of Tests as per IS:.....	Type Test Report No. and Date
(1)		
(2)		

Yours faithfully,

Signature and Seal of company,

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

Address:

ANNEXURE-F

If any type of legal litigation against MSEDCL is pending in any court/Forum against/by the bidder or its sister concern/Director/Partner/Proprietor, then purchaser reserves the right to reject partly or fully their bid without assigning any reasons thereof.

Bidder has to submit the declaration as per Annexure-F regarding no any type of legal litigation against MSEDCL is pending in any court/Forum against/by the bidder or its sister concern/Director/Partner/Proprietor.

(On supplier's Letter Head)

I, certify that,

The business dealings with our firm / agency M/s..... and its sister concern/Director/Partner/Proprietor have no any type of legal litigation against MSEDCL is pending in any court/Forum against/by the bidder or its sister concern/Director/Partner/Proprietor.

If it is found at any stage of tendering and order execution process then as per the tender conditions our offer will be rejected.

I hereby certify that I am duly authorized representative of M/s.----- whose name appears above my signature.

Bidders Name:

Authorized representative's signature:

Authorized representative's Name:

Seal of the company

Name and address of the Bidder

Date:

ANNEXURE-G

PRICE VARIATION FORMULA

(Not Applicable)

ANNEXURE - H

GUARANTEED TECHNICAL PARTICULARS

As indicated in E-Tendering GTP Parameter

ANNEXURE- I

(Declaration Format)

(On supplier's Letter Head)

Tender No. MMD/T-HTM2-06/0924 for supply of Van mounted modular automatic fault location system for low and medium voltage cables.

I, certify that,

- a. The business dealings with our firm / agency M/s..... have not been debarred by any Ministry of GoI / GoM / state owned electricity distribution utility and still in force.

- b. The Directors, Proprietors, Partners, Employee(s) or owner of our firm / agency M/s..... have not been either jointly or severally guilty of malpractices in relation to its business dealings with the Government or MSEDCL during the last five years.

I hereby certify that I am duly authorized representative of M/s.-----
whose name appears above my signature.

Bidders Name:

Authorized representative's signature:

Authorized representative's Name:

Seal of the company

Name and address of the Bidder

Date:

ANNEXURE- J

(On MSEDCL Letter Head)

Dispatch Instructions

BY R. P. A. D. / ORD. POST /E-MAIL

(SAP CONTRACT No: -----)

To,

M/s. -----

Email: -----

Sub: Supply of ----- against A/T No. ----- dt. -----

Ref: Final Inspection Call letter No. ----- dt. -----.

(I.W. Regn. No. ----- dt. -----)

Your readiness of material letter no. dtd.....

Dear Sir,

With reference to the above, you are requested to dispatch as given below:

Sr. No.	Consigned to	Meant for Circle	Meant for Zone	Qty. in Nos.

Further, you are requested to contact concerned S.E. (O & M) Circle / E.E. (O & M) Division / E.E. (MM Section) before dispatching / unloading the above material.

This is issued without prejudice to all other terms and conditions of the order.

Yours faithfully,

Chief Engineer (M. M. Dept.)

Copy f.w.cs.to: The C.E., MSEDCL, -----.

Copy to:

The G.M. (F & A – SB), MSEDCL, Mumbai.

The E.E. (O & M Division), MSEDCL, -----

The E.E. (MM Section), MSEDCL, -----

ANNEXURE- K

List of Stores

Sr. No.	Name of Stores	Address
1	Common Stores Ahmednagar	Nagar-Pune Road, Opp. Arti Hotel, Kedgaon, Ahmednagar.
2	Common Stores Airoli	Power House, Thane-Belapur Road, Airoli, Navi Mumbai.
3	Common Stores Akola	Major Store Babhulgaon NH No 6 Akola.
4	Common Stores Amravati	Major Store MSEDCL Power House, Mulshi Road, Amravati.
5	Common Stores Chh.Sambhaji Nagar	MIDC Plot No. J-13, Opp. Garware Stadium, NaregaonPhata, Chikhalthana, Chh.Sambhaji Nagar
6	Common Stores Beed	Near 132 kV Sub-station, Idgah Nagar, Nalvandi Naka, Beed.
7	Common Stores Chandrapur	Near Vidyut Bhavan, Bagala Chaowk, Babu Peth, Chandrapur.
8	Common Stores Jalgaon	Old MIDC Area, Behind Ajanta Lawns, Ajanta Road, Aurangabad Highway, Jalgaon.
9	Common Stores Kalyan (Netivali)	MIDC Phase 1, Near Tata Power House, Kalyan - Dombivali Road
10	Common Stores Kamptee	Maldhakka Godown, Behind Railway Station Kamatee, Nagpur.
11	Common Stores Khamgaon	Manav Dharm Bld. Near 132 kV Sub-Station, Shegaon Road, Khamgaon, Dist. Buldhana.
12	Common Stores Kolhapur	Kaneri Math Road, A/P Gokulshirgaon, Tal. Karveer, Dist. Kolhapur.
13	Common Stores Kudal	Malwan Road, MIDC Pinguli-Nerur, Kudal, Sidhudurg.
14	Common Stores Latur	MIDC Plot No. P-21/P, In Front of Kirti Gold Oil Mill, Latur.
15	Common Stores Mulshi	Phursungi-Saswad Road, Near Overhead Bridge, Mulshi/Phursungi, Dist. Pune.
16	Common Stores Nanded	Taroda Naka Main Road, Nanded.
17	Common Stores Nashik	Aringale Plot, Hanuman Nagar, Jail Road, JunaSaykheda Road, Panchak, Nasik.
18	Common Stores Dharashiv	Near MSEDCL Rest House, Tuljapur Road, Dharashiv.
19	Common Stores Palghar	Near 33/11 kV Sub-Station, MSEB Coloney, Boisar Road, Palghar.
20	Common Stores Parabhani	Old Power House Jintur Road, Parbhani.
21	Common Stores Ratnagiri	MIDC Area Mirjole, Kuwarbav, Ratnagiri.
22	Common Stores Sangli	Near Walchand Engineering College, VishramBaug, Sangli.
23	Common Stores Satara	A/P Satara, Tal. Koregaon, Dist. Satara.
24	Common Stores Solapur	Plot No P-4, MIDC Chincholi, Behind Post Office, Solapur
25	Common Stores Tumsar	Near Power House, Nakaq Dongari Road, Old Bus Stop, Tumser, Bhandara.
26	Common Stores Yavatmal	MIDC Lohara, Yavatmal.

ANNEXURE-M**BANK GUARANTEE FORMAT****EARNEST MONEY DEPOSIT BANK GUARANTEE AGAINST TENDER**

B.G. No. and DATE:

The Bank of _____full address of Branch) hereby agree unequivocally and unconditionally to pay, at Mumbai within 48 hours, on demand in writing from the MAHARASHTRA STATE ELECTRICITY DISTRIBUTUION CO. LTD. (name of the company formerly known as M.S.E.B.) on behalf of M/s _____(Address as per MSEDCL REGISTRATION) who have tendered and/or contracted or may tender or contract hereafter for supply of materials. Equipment or services to the MAHARASHTRA STATE ELECTRICITY DISTRIBUTUION CO. LTD. against Tender No. ----- dated ----- total value of Tender is Rs. -----

This agreement shall be valid and binding on this Bank up to and including validity (date) and shall not be terminable by notice or any change in the constitution of the Bank or the firm of contractors or any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made given conceded or agreed with or without our knowledge or consent by or between parties to the said within written contract. The validity of this Bank Guarantee will be extended by us for the further period of six months, one month prior to its present validity period at the request of MAHARASHTRA STATE ELECTRICITY DISTRIBUTUION CO. LTD. (name of the company-formerly known as M.S.E.B.).

In case of any dispute arising out or it connection with the extension or encashment of Bank Guarantee, the Courts in Mumbai will have jurisdiction.

Our liability under this Guarantee is restricted to Rs.-----/- (Rupees-----only). Our Guarantee shall remain in force until (date). Unless a suit or action to enforce a claim under the guarantee is filed against us within six months from the aforesaid date, all your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liability there under.

Place:

Date:

Sign-----

For-----

(Banker's Rubber Seal and Bank Code No. of signatory)

Please note that:

1. The value of non-judicial stamp paper for this Bank Guarantee is Rs.200/- should be purchased in the name of Guarantor Bank.
2. The Bank Guarantee should be furnished from any Scheduled Bank/Nationalized Bank.
3. Please state the full and complete postal address of the Bank undertaken the guarantee.
4. The Bank Guarantee may be valid as per terms and condition of A.T.
5. B.G. should be submitted along with covering letter of Bank.

ANNEXURE-N**BANK GUARANTEE FORMAT****FORM OF BANK GUARANTEE FOR THE PERFORMANCE OF THE EQUIPMENT**

B.G. No. and Date:

This deed of Guarantee is made thisday of..... By.....branch having at H.O. at..... (Here in after called "the Surety" which expression shall where the context so admits include its permitted assign) in favour of MAHARASHTRA STATE ELECTRICITY DISTRIBUTUION COMPANY LTD. (name of the company formerly known as M.S.E.B.) being a government company formed as per the provisions of the Maharashtra Electricity Reforms Transfer Scheme. 2005 having its registration no. U40109 MH 2005 SGC 153645 (here in after called the "Creditor" which expression shall include its permitted assigns). WHERE AS M/s. (Name of Party)..... (Postal address as per A/T) have entered into a contract to supply (Name of Material) to the MAHARASHTRA STATE ELECTRICITY DISTRIBUTUION COMPANY LTD. (Name of the Company formerly known as M.S.E.B.). vide contract no.dtd.....on the terms and conditions in the said contract. (Here in after for brevity sake called "the said contract").

In accordance with terms of the said contract, the creditor has agreed to pay to M/s..... (Name of Party)..... the said sum representing the 5 % of the total contract price for the Rs...../- and WHEREAS M/s. (Name of Party).....is required under the terms of contract to furnish a Bank Guarantee for Rs...../- (Rupees:.....Only) the said sum representing the 5 %price as given in the said contract.

The surety as he requests of M/s.(Name of Party).... has agreed to give this guarantee.

NOW THEREFORE THIS DEED WITNESS AS FOLLOWS:

1. In consideration of the creditor agreeing to make to the debtor at Mumbai the payment of Rs..... (Rupees.....only) being the value of 5 % of the total contractprice as given in the said contract on supplying the complete material as per the contract by the debtor failing which the surety does undertake to pay to the creditor on demand such amount of amounts as the surety may be called upon to pay not exceeding in the aggregate sum of Rs./- (Rupees.....only).
2. The surety hereby guarantee to the creditor the due performance and observance by the debtor of the terms and conditions of the contract.
3. The surety also agrees that it shall not during the currency of the guarantee herein given or during the period of its execution revoke the same even by giving notice to the creditor.
4. On account of the non-fulfillment of the contractual obligation by the debtor or in case the surety or contractor do not renew this guarantee bond as herein provided, the surety will on simple demand from the creditor, pay at Mumbai the creditor, the sum of Rs.....(Rupees.....only) as indicated under clause-1 above, without demure and without the creditor to invoke any legal remedy that may be available to them to compel the surety to pay the same even if the debtor consider such demand of the creditor unjustified.
5. The surety agrees and declares that notwithstanding anything contained in Section 133 to 135 of the Indian Contract Act 1872 (IX of 1972) or any other rule of law or equity in the view of any variance in the terms of the said contract shall not operate as a discharge of his obligations hereunder or shall any composition made by the creditor with debtor in

respect of any breach of the terms and conditions of the said contract operate as a discharge of the surety’s obligation and surety further expressly agrees and declares that though as between the creditor and surety, the surety shall be liable for sum payable or falling due hereunder equally with the debtor and the surety save as otherwise herein provided hereby waives all his rights which he might as guarantor be entitled to claim and enforce.

- 6. The decision of the creditor that any sum has become payable shall be final and binding on the surety.
- 7. The guarantee shall come into force on supply of material shall remain in force till the end of(date)The surety, at the request of the creditor shall extend the validity of the Bank Guarantee for a further period of 12 months, one month prior to its present validity period.
- 8. In case of any dispute arising out of or in connection with the extension or encashment of the Bank Guarantee, the courts in Mumbai will have the jurisdiction.
- 9. The guarantee herein contained shall not be effected, by the change in the constitution of the surety or the debtor.
- 10. Our liability under this guarantee is restricted to Rs.....(Rupees.....only) and our guarantee shall remain in force until (Date....) unless a claim under this guarantee is lodged with us within six months from the date of expiry of guarantee i.e. on or before(date).....all your rights under this guarantee shall be forfeited and we shall be relieved and discharged from all our liabilities there under.

IN WITNESS WHERE OF THE surety has executed this deed in presence of

Place: Signature.....
 Date: for.....
 (Banker’s Rubber Seal and Code No. of signatory)

Witnessed (2 witness is required from bank only)

- 1) Name and Address
Signature Bank employee code number
- 2) Name and Address
Signature Bank employee code number

Please Note:

- 1) The Bank Guarantee should be furnished from any Nationalized Bank/ Scheduled Bank along with covering letter of Bank.
- 2) The minimum value of non-judicial stamp paper for this Bank Guarantee is Rs.200/-.
- 3) The stamp paper is to be purchased in the name of Guarantor Bank i.e. Bank Guarantee issuing Bank Only.
- 4) Please state the full and complete postal address of the Bank undertaking the guarantee.
- 5) Signature and Bank employee code number of two signing authority are required on the Bank Guarantee document.
- 6) The correct contract number (A/T No.) and date, amount in Rs. is to be mentioned correctly in the Bank Guarantee document.
- 7) Name and Full address of the company is to be mentioned correctly in the Bank Guarantee document.
- 8) B.G. should be valid as per terms of A/T including guarantee period of material.

FORMAT - 1**Quantity and Delivery Schedule:**

Tender No. MMD/T-HTM2-06/0924 for supply Van mounted modular automatic fault location system for low and medium voltage cables.

{Quantity Offered at Column No. 6 of Annexure-'B' (Price Schedule)}

S. N.	Material Description:	MSEDCL requirement in No	Offered quantity in No	Delivery schedule		
				Commencement Period (CM)	Completion Period (CP)	
				Min. 50 % of offered quantity	Balance offered quantity in 2 or less months in equated lots.	
				Within 2 months from the date of LOA/AT	3rd Month lot quantity	4th Month lot quantity
				Lot-1	Lot-2	Lot-3
1	Van mounted modular automatic fault location system for low and medium voltage cables	04				

Seal and Signature of Supplier

FORMAT -2

Undertaking for not approached any one for undue influence.

(To be submitted on letter head of the bidder)

TO WHOM SO EVER IT MAY CONCEREN

I / We _____ hereby submit the undertaking that our firm or our partners or directors have not approached any one for undue influence against the Tender/Bid.

If it is found that we have given wrong or misleading information then our offer shall be summarily rejected.

Date:

Place:

(Signature, Name of Authorized Representative and Company Seal)

FORMAT -3

Format of Certificate from Chartered Accountant for not have controlling stake in more than one entity applied for the Tender/Bid.

(To be submitted on Letter Head of the Chartered Accountant)

Tender No. MMD/T-HTM2-06/0924 for supply of Van mounted modular automatic fault location system for low and medium voltage cables.

TO WHOM SO EVER IT MAY CONCEREN

I _____ hereby certify that the firm M/s _____ or its partners or directors does not have controlling stake in more than one entity applied for the Tender/Bid.

If it is found that they have given wrong or misleading information then their offer shall be summarily rejected.

Date:

Place:

(Seal, Signature and Name of C.A.with Regn. No. and UDIN No.)

FORMAT-4

Format of Certificate from Chartered Accountant for Annual Turnover
(To be submitted on Letter Head of the Chartered Accountant)

Tender No. MMD/T-HTM2-06/0924 for supply of Van mounted modular automatic fault location system for low and medium voltage cables

TO WHOM SO EVER IT MAY CONCEREN

We have examined the audited financials of M/s _____, having its registered office at _____, for the financial years (i.e. 2021-22, 2022-23 and 2023-24). Based on our examination, we hereby certify that Annual Turnover for respective financial year mentioned below is in accordance with the audited financial statements:

Financial Year	Assessment Year	Annual Turnover Amount In Rupees Lakhs.
Total. Rs.		
(Rs.Figure in words)		
Average Annual Turnover Of Last Three Financial Years		

This certificate is given on the basis of copy of audited financial reports for profit/loss account and balance sheet.

Date:

Place:

(Seal, Signature and Name of C.A. with Regn. No. and UDIN No.)

FORMAT-5

Format for No Deviation Form

(To be submitted on letter head of the bidder)

Tender No. MMD/T-HTM2-06/0924 for supply of Van mounted modular automatic fault location system for low and medium voltage cables.

CERTIFICATE FOR NO DEVIATION

We, (Bidder's Name), hereby certify that there is no technical or commercial deviation from the Conditions mentioned in Tender Document and I am agreeing to all the terms and conditions mentioned in the Tender Specification.

Bidders Name:

Authorized representative's signature:

Authorized representative's Name:

Seal of the company

Name and address of the Bidder

Date:

FORMAT-6

Format of Experience

(To be submitted on letter head of the bidder)

Tender No. MMD/T-HTM2-06/0924 for supply of Van mounted modular automatic fault location system for low and medium voltage cables.

I/we am/ are enclosing the Order Copies and Order Completion Certificate of the utilities for offered item/s as below:

Sr. No.	Financial Year	Utility Order Completion Certificate Letter No.	Date	Name of Electricity Distribution Utility, Electricity Distribution Franchisee or Public Sector Undertaking	Order No.	Date	Name of Item	Order Quantity in No.	Supplied Quantity in No.
1									
2									
3									
4									
5									
.....									

If it is found that we have given wrong or misleading information then our offer shall be summarily rejected.

Date:

Place:

(Signature, Name of Authorized Representative and Company Seal)

FORMAT -7

Format of List of order in hand

(To be submitted on Letter Head of the Chartered Accountant)

Tender No. MMD/T-HTM2-06/0924 for supply of Van mounted modular automatic fault location system for low and medium voltage cables.

TO WHOM SO EVER IT MAY CONCEREN

We have examined the information and records of M/s. _____, having its registered office at _____. Based on our examination, we hereby certify that following purchase orders are in under execution which are received to M/s. _____, for material mentioned below from the Electrical Utilities/ Government departments/ Discoms /SEBs:

Sr. No.	Item Description	Purchase name	Purchase order no.	Purchase date	Order quantity	Supplied quantity	Balance Quantity to be supplied

Date:

Place:

(Seal, Signature and Name of C.A. with Regn. No. and UDIN No)

FORMAT-8**PRE-BID QUERY FORMAT**

(To be submitted on letter head of the bidder)

Tender No. MMD/T-HTM2-06/0924 for supply of Van mounted modular automatic fault location system for low and medium voltage cables.

Name of the Company:

Name of Key Person:

Key Person Contact details: Mobile: Email

Tender Purchased: YES/NO :

Section & Clause

Sr. No.	Clause No.	Page No.	Section and Clause	Query

Note:

1. It is to be noted that Pre-Bid Queries must be sent within **two days** after Pre-Bid meeting in the *above prescribed format only*. Any query sent afterwards shall not be entertained.
2. Pre-Bid queries should be sent on cemmcmsedcl@gmail.com only. Other mode of communications shall not be accepted.
3. MSEDCL is not bound to reply all the queries.
4. Replies of Pre-Bid Queries shall be published on MSEDCL e-Tender website.

(Signature, Name of Authorized Representative and Company Seal)

FORMAT -9

Format for –Readiness of Material for Inspection

[THIS IS ONLY A PROFORMA, ACTUAL INSPECTION CALL HAS TO BE GIVEN ON YOUR COMPANY LETTER HEAD ONLY]

Ref. No.

Date:

To,
The CE (MMD),
M.S.E.D.C.L., Prakashgad,
Bandra (E), Mumbai - 400051.

Sub: Readiness of material for inspection against LOA/AT No. ----- dated. -----
--for Supply of -----.

Against the LOA/AT cited above, the material as detailed below is hereby offered for inspection

1. Brief description of the material Offered for inspection:
2. Reference of drawing Approval (If applicable):
3. a) Reference of approval of type test(If applicable):
b) Reference of approval of prototype test(If applicable):
b) Reference of approval of balance type test (If applicable):
4. Whether it is a joint inspection with EE (Testing)/ SE (TQA) etc.
(if applicable) (Say Yes or No):
5. a)Whether contract performance deposit has been paid against
the order:
b) if paid, please give details:
6. Sr. No. of the items as per LOA/AT:
7. Total Quantity of the items Ordered:
8. Total quantity of the items inspected so far:
9. a) Quantity monthly committed in delivery schedule:
b) Lot No. for which the Quantity is offered for inspection now:
c) Due date of delivery as per LOA/AT for offered quantity:
10. Date of readiness of Material:
11. Complete address of the factory where materials is to be inspected:

-
12. Name of the person to be contacted in connection with inspection and his Office/Factory/Residence Tel. No.:
13. Staggering holiday of Factory/Office at the place of inspection:
14. a) Whether Dispatch Instructions are available (Say Yes or No):
b) Quote Letter No.:
c) Brief destination and Qty. per consignee of this present lot offered:
- | | | |
|--|----------------------|------|
| | Name of
consignee | Qty. |
|--|----------------------|------|
15. Last visit of our Inspecting Officer:
16. a) Whether the entire material is dispatched against last inspection. (Say Yes or No) (MSEDCL's E.E.[Inspection/Testing] will ensure before inspection of this lot that the earlier inspected lot is already dispatched)
b) Quantity dispatched:
- | | | |
|--|----------------------|------|
| | Name of
consignee | Qty. |
|--|----------------------|------|
17. Further programme of production Quantity likely to be offered and by what date:

Yours Faithfully,

(Signature, Name of Authorized
Representative and Company Seal)

Copy f.w.c. to :

- 1) The Executive Engineer (HTM-2), Material Management Dept., MSEDCL, H.O., Mumbai-51.

Special instructions for suppliers:

1. Inspection call letter with incomplete information will not be accepted.
2. The material should be offered complete as per approved bill of material wherever applicable.
3. Material should be properly stacked for quantity verification.
4. Inspection call should be given in the firm's Letter Head only and to be submitted on MSEDCL Material Inspection Portal <https://mip.mahadiscom.in/InspectionPortal/>
5. For any query please e-mail on Inspection Portal support Email ID:
inspection.portal@mahadiscom.in

FORMAT -10

Format for –Inspection Approval

[On MSEDCL’s Letter Head]

Ref. No.

Date:

Camp:

To,

M/s.....

Works Address:

Sub: Final inspection and approval of (Name of material) against
LOA/AT No. ----- dated. ----- for Supply of -----

- Ref:1) Readiness of material for Final inspection vide no..... dtd.....
[Date of readiness: dd/mm/yyyy]
- 2) Authorization letter for Final inspection vide no.....dtd.....
- 3) Drawing approval no. dtd.
- 4) Type Test approval no..... dtd.
- 5) Dispatch Instruction No..... dtd.....
- 6) MSEDCL’s Material Inspection Portal Call Id No.

Dear Sir,

The routine test certificate submitted by you and the acceptance tests carried out at the time of inspection for the material and quantity mentioned below have been scrutinized with as per MSEDCL Specification and GTP Approval have been generally found in order and hence approved. Therefore the material is cleared for dispatch.

Sr.No.	Details			Item 1	Item 2
1	Description of material offered for inspection:					
	(a) Sr.No./Item as per LOA/AT					
	(b) Item code no.					
	(c) Total order quantity for above item/s. (...UoM)					
2	Quantity offered for inspection (...UoM)					
3	Quantity Inspected (...UoM)					
4	Quantity Accepted (...UoM)					
5	(a) Progressive Total Quantity so far inspected (Including this inspection): (...UoM)					
	(b) No. of inspection carried out against order for this item.					
6	Material to be dispatched as per dispatch instructions as indicated below:					
	Nam e of	Name of the	Meant for	Qty in (UoM) Item no...	Qty in (UoM) Item no...	Material to be

	the offices	consignees (Major Stores/ Store Centre)	Circle	Item description			Item description			reached to destination stores on or before
				Scheme-1	Scheme-2	Total	Scheme-1	Scheme-2	Total	
	dd/mm/yyyy
	
			Total							
7	Sealing:			Sealing of no. each of ...(name of item).....are carried out on randomly selected and tested for acceptance test bearing sr nos./Seal No. Sealed with paper seal sign by the undersigned.			Sealing of no. each of ...(name of item).....are carried out on randomly selected and tested for acceptance test bearing sr nos./Seal No. sealed with paper seal sign by the undersigned.			
				Sr.No.... / Seal No...			Sr.No. / Seal No...			
				Sr.No..../ Seal No...			Sr.No.... / Seal No...			
8	Other Details:									
	(1) Material inspected at and place where the material is inspected. [Name of premises]									
	(2) Date of Inspection									
	(3) Test Report signed in blue ink (Say Yes or No)									
	(4) Matching materials earlier inspected are already dispatched.(Say Yes or No)									
	(5)Whether all the equipments used during inspection have valid calibration.(Say Yes or No)									

The above approval is given without prejudice to the other terms and conditions of the LOA/AT.

Enclosed: Test Results.

Yours faithfully

(Sign and Name of MSEDCL's Inspector)
Executive Engineer (Testing)
.....Testing Division

Copy s.w.r.t.:

- 1) The Chief Engineer (MMD), MSEDCL, Prakashgad, Mumbai-51.
- 2) The Superintending Engineer (MMD), MSEDCL, Prakashgad, Mumbai-51.
- 3) The Executive Engineer, MMD, MSEDCL, Prakashgad, Mumbai-51.

FORMAT-11: POWER OF ATTORNEY BY BIDDER IN FAVOUR OF AUTHORIZED REPRESENTATIVE DULY EXECUTED BEFORE THE NOTARY.

[To be on non-judicial stamp paper of Rupees Two Hundred Only (INR 200/-) or appropriate value should be purchased in the name of bidder as per Stamp Act relevant to place of execution.]

Know all men by these presents, we*[Insert name and address of the registered office of the Bidder]* do hereby constitute, appoint, nominate and authorize Mr./Ms. *[Insert name and residential address]*, who is presently employed with us and holding the position of as our true and lawful attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to submission of our Bid in response to tender no. for (Brief Description) issued by Maharashtra State Electricity Distribution Company Ltd. (M.S.E.D.C.L.) including signing and submission of the Bid and all other documents related to the Bid, including but not limited to undertakings, letters, certificates, acceptances, clarifications, guarantees or any other document which M.S.E.D.C.L. may require us to submit. The aforesaid attorney is further authorized for making representations to M.S.E.D.C.L., and providing information / responses to M.S.E.D.C.L., representing us in all matters before M.S.E.D.C.L., and generally dealing with M.S.E.D.C.L. in all matters in connection with our Bid till the completion of the bidding process as well as execution of the order, if applicable, in accordance with the tender.

We hereby agree to ratify all acts, deeds and things done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall be binding on us and shall always be deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the tender.

Signed by the within named *[Insert the name of the executant company]* through the hand of Mr./ Mrs.duly authorized by the Board to issue such Power of Attorney dated this day of Accepted

..... (Signature of Attorney)
[Insert Name, designation and address of the Attorney]

Attested

.....
(Signature of the executant)
(Name, designation and address of the executant)

.....
Signature and stamp of Notary of the place of execution

Common seal of has been affixed in my/our presence pursuant to Board of Director"s Resolution dated.....

1. WITNESS 1. (Signature)
Name
Designation.....

2. WITNESS 2. (Signature)
Name
Designation.....

Notes:

- a. *The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s).*
 - b. *In the event, power of attorney has been executed outside India, the same needs to be duly notarized by a notary public of the jurisdiction where it is executed.*
 - c. *Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a Board resolution / power of attorney, in favour of the person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).*
-

ANNEXURE – ‘U-I’ (If Applicable)
“INDEMNITY BOND”

UNDERTAKING TO BE SUBMITTED BY THE PARENT COMPANY SITUATED ABROAD IN CASE OF THE PARTICIPANT BIDDER WHO IS AN INDIAN BASED SUBSIDIARY ON GENERAL STAMP OF `200.00.

The Chief Engineer,
Maharashtra State Electricity Distribution Co. Ltd.,
Material Management Department,
1st Floor, Prakashgad, Bandra (E),
Mumbai – 400 056.

Dear Sir:

Sub: Undertaking against Tender No. ____ for procurement of _____

We, M/s. _____ having registered office at ____ are the Parent Company of M/s. _____ who have participated against your tender no. ____ for procurement of ____.

We have carefully read and have thoroughly understood and agree to the terms and conditions of the subject tender.

We hereby undertake that in case of placement of order against the subject tender on our subsidiary company, M/s. _____, in the event of we accept all the responsibilities and liabilities for supply of quality equipments as per specification of the tender and execution of the contract. We further hereby undertake that we shall be responsible for any liability arising out of the contract placed on M/s. _____ and to pay MSEDCL on demand the sum of rupees as per agreement in the event of any breach of condition of the purchase order, loss and damage of the material till expiry of guarantee period as stipulated in the order.

Our liability here under shall not be impaired or discharged by extension of time or variation or alteration made with or without our knowledge or consent by or between the parties to the said contract. This undertaking shall be valid and binding on us upto and including the execution and guarantee period of the order and shall not be terminable by notice or change in the constitution of any of the companies. In case of any dispute arising out of or in connection with this tender or contract, if concluded, the same shall be subject to the exclusive jurisdiction of the **“Court in Mumbai (India).”**

Yours faithfully,

(Authorised Signatory)
For _____

Annexure 'B'(Price Schedule)

Sr.No	Item Code	Material Description	Unit	Quantity Required	HSN	Quantity Offered	Unit ExWorks including packaging charges but excluding duties & taxes etc (In Rupees)	Freight Charges Per Unit (In Rupees)	Transit Insurance Charge Per Unit (In Rupees)	Integrated GST for outside State Transaction on (Ex-Works Price+Freight Charges + Transit Insurance Charges)(In Rupees)	Central GST for within State Transaction on (Ex-Works Price + Freight Charges + Transit Insurance Charges)(In Rupees)	State GST for within State Transaction on (Ex-Works Price + Freight Charges + Transit Insurance Charges)(In Rupees)	Free Door Delivery Price Per Unit by Road upto Destination/Stores/Sub Station (In Rupees)
1	2	3	4	5	6	7	8	9	10	11	12	13	14=(8+9+10+11+12+13)
1	77006661014	CABLE FAULT LOCATOR VAN MOUNTED	NO	4	87059000								

Delivery Details

[Delivery must in the units specified for the items as per Price Schedule]

First lot of ___ in assorted sizes will be delivered within 2 Months from the date of LOA Award. After this period supply will be completed at the rate of ___ in assorted sized per month

Confirmation Details

We Confirm The Following :

I) Goods and Services Tax(GST) i.e Integrated GST / (Central GST+ State GST):

The GST is included in our prices quoted in price bid (Central GST+ State GST) for within Maharashtra State/Integrated GST for outside State and we shall not charge any additional amount towards Integrated GST / (Central GST+ State GST), during currency of contract except statutory variation by Central / State Government in normal (full) rate of Integrated GST / (Central GST+ State GST), in case of Integrated GST / (Central GST+ State GST) Rate is increased. In case the Integrated GST / (Central GST+ State GST) is decreased than the rate indicated in the price bid, the benefits of the reduction in the Integrated GST / (Central GST+ State GST) shall be passed on to the Purchaser. The increase in the Integrated GST / (Central GST+ State GST) rate due to increase in turnover during the contractual delivery period shall not be charged to the Purchaser. If the Integrated GST / (Central GST+ State GST) is not payable at present, we shall not charge the same, if it becomes applicable during the currency of contract due to expiry / withdrawal of tax concessions and incentives during the currency of contract except for statutory variation by Central / State Government.

(i) Necessary documentary evidence for the GST claimed by us shall be submitted along with the bills.

(ii) We here by declare that while quoting the price in the Price Bid, we have taken into account the entire credit on inputs available under the GST Act.

Technical Specification Item: CABLE FAULT LOCATOR VAN MOUNTED TYPE



Maharashtra State Electricity Distribution Company Limited

SPECIFICATION NO.MMC: MSC/DB/01 /2018

TECHNICAL SPECIFICATION

For

CABLE FAULT LOCATOR VAN MOUNTED TYPE

For

DISTRIBUTION SYSTEM

IN

MSEDCL



MATERIAL SPECIFICATIONS CELL

TECHNICAL SPECIFICATION FOR

**Van mounted modular automatic fault location system
for low and medium voltage cables.**

INDEX

Sr. no	Particular
1	Scope
2	Auxiliary Power Assembly
3	Service condition
4	Reference standard
5	General Technical Parameters
6	Specific Technical Requirement
7	Vehicle
8	Safety Features
9	Type test
10	Pre dispatch inspection
11	Guarantee
12	Packaging
13	Training
	Schedule A - Guaranteed Technical Particulars

1.0 Scope:

- a) This specification covers Van mounted modular automatic fault location system for low and medium voltage underground cables in MSEDCL distribution network.
- b) It is not the intent to specify completely herein all the details of design and construction of the modular automatic fault location system. It shall conform to high standards of engineering, design and workmanship with recent editions in all respects. Equipment shall be capable of performing continuous & trouble free operation up to the supplier's guaranteed life in a manner acceptable to the purchaser who will interpret the meanings of drawings and specifications and shall have power to reject any work or material which in his judgment if not in accordance therewith. The modular automatic fault location system offered shall be complete with all components necessary for its effective and trouble free operations. Such components shall be deemed to be within the scope of supplier's supply irrespective of whether those are specifically brought out in this specification and/or in the commercial order or not.
- c) The Tenderer/supplier shall bind himself to abide by these considerations to the entire satisfaction of the purchaser and will be required to adjust such details at no extra cost to the purchaser over and above the tendered rates and prices.
- d) The system should be compact multifunctional cable fault locator which shall be used for Cable Testing, Fault Pre-Location, Pin-pointing and Fault Conditioning etc. Test system should be versatile to test HT & LT cables of different types, sizes and various voltage levels like 33 kV, 22 kV, 11 kV, 6.6 kV and 415 V. The kit shall be used for cable types namely XLPE, PVC, PILC with Al / Cu conductor. Unit should be portable fully automatic van mounted System and all the features explained below should be inbuilt into one unit except the pre-locator and pinpointing set. There several runs of cables of different voltage levels are laid on common racks / underground trench and during the cable fault identification process, nearby cables shall be in charged condition; hence the accuracy of the set being offered shall not suffer due to the above. The set shall be capable to identify and locate faults for all types of cable including high resistance, low resistance or intermittent / flashing faults using a microcontroller based with latest software single menu driven (Through single knob) operation. No manual control for voltage & mode selection through separate switches will be allowed.
- e) The technical specification required for comprehensive multifunctional Cable Fault Locator is given below. Point-wise conformity to the specifications shall be submitted along with the offer without which the offer shall be liable for rejection.

2.0 Auxiliary Power Supply:

230 Volts, 50 Hz (Single phase 32 Amp. connection) Separation transformer 2 kVA (To normalize the fluctuation of Supply)CEE-plug for extended requirements as Burning, Air Condition etc. The system shall monitor input voltage and current during operation and if voltage is exceeding the limits then shall trip and give error message.

3.0 Service Conditions:

The Equipment supplied against the specification shall be suitable for satisfactory Operation under the following tropical conditions.

3.0	Max. ambient temperature	: 45 Deg. C
3.1	Min ambient temperature	: -5 °C
3.2	Max daily average ambient temperature	: 40°C
3.3	Min yearly average ambient temperature	: 30°C
3.4	Max. relative humidity	: 100 %
3.5	Max. annual rainfall	: 1450 mm
3.6	Max. wind pressure	: 150 kg/sq.mtr.
3.7	Max. altitude above mean sea level	: 1000 mtrs.
3.8	Isoceraunic level	: 50
3.9	Seismic level (Horizontal acceleration)	: 0.3 g.
3.10	Climatic Condition:	Moderately hot (exposed to sun) and Humid tropical climate fungus growth. The climatic conditions are prone to wide variations in ambient conditions and hence equipment shall be of suitable design to work satisfactorily under these conditions.

4.0 Reference Standards:

- a) The modular automatic fault location system for low and medium voltage underground cables including the operating devices, accessories and auxiliary equipment forming integral part thereof, shall be designed, manufactured, assembled and tested in accordance with the relevant standards, specification and codes of practices, referred to herein and shall be the latest editions including all applicable official amendments and revisions. The design, manufacture and performance of the equipment shall comply with all currently applicable statutes, regulations and safety codes.

Unless otherwise specified, the equipment offered shall conform to the latest applicable Indian, IEC, British, European or U.S.A Standards and in particular to the following.

IEC 60068	Insulation coordination.
IEC 61010	Standard for safety requirements for electrical equipment for measurement, control, and laboratory use.
IEC 61000	Standards for measurement techniques.
IS 1248/2003	Indicating instruments.
EN 60-950	Product Safety testing standard for "Information Technology Equipment" (known as ITE).
IEC 60529 / EN60529	Protection against accidental contact, foreign objects and water.

- b) The components and devices which are not covered by the above standards shall confirm to and comply with the applicable standards, rules, codes and regulations of the internationally recognized standardizing bodies and professional societies as may be approve by the employer and the manufacturer shall list all such applicable standards, codes etc.
- c) Equipment conforming to any other internationally accepted standards, will also be considered if they ensure performance and constructional features equivalent or superior to the standards listed above. In such case, two copies of such standards in authentic English translation, if the language of the standard is other than English shall be provided. In case of dispute, the stipulations in the English translation, submitted by the manufacturer shall prevail. Further, in the event of conflict between the stipulations of standard adopted by the manufacturer and the corresponding IEC/Indian Standard Specification, the stipulation of Indian Standard Specification shall prevail.

5.0 General Technical Parameters:

The equipment shall be capable to test underground power cables of 11 kV, 22 kV, 33 kV and LT cable of 415 Volts for fault locating.

The cable fault location system shall comprise of –

- a) HV module for DC testing and surging, as well as integrated Insulation Resistance testing.
- b) Microprocessor controlled cable fault pre-locator having the following pre-location methods;
 1. Pulse Reflection Method.
 2. Arc Reflection Method (ARM)/ Secondary impulse method.
 3. Impulse Current Method.
 4. DECAY method.
 5. Burning Method with Min. 500 mA.

- c) Fault pin-pointing set.
- d) Cable Locator & Cable Identifier.

The Cable fault locating system shall be versatile, capable supportive to locate faults in a widevariety of power distribution cable networks. The unit shall be complete in all respect with all the necessary items, accessories and test technique and shall be ideal to ensure its maximum performance to detect faults or conditions for short, medium or long underground distribution cable networks. The equipment should be Van Mounted solution fixed as per good engineering practices. The Van will be supplied by MSEDCL. The required engineering for mounting cable fault locators & additional accessories shall be in scope of supplier.

The cable fault locating system should have centralized control unit i.e. a single unit through which all the devices in a cable fault locator van can be operated on single screen. This system shall ensure safety of the operator as well as nearby people & shall ensure safe operation of system. Data export software XLS/XLSX for spreads sheet application & .Xml for Google Map. The system itself should be able generate the reports in pdf format without the need of external laptop/PC and the report should be transferred using USB Port.

6.0 Specific Technical Requirements:

6.1) H.V. Thumper /Surge Generator:

The Surge Generator should be suitable for pinpoint location of cable faults upto 33 kV. The Details shall be as follows.

Sr. No.	Particulars	Technical Specification
1.	Rated Output	0 to 4-8-16-32 kV continuously variable at each range.
2.	Output Capacity	Minimum 1750 Joules at each step for 8/16/32 kV and minimum1100 Joules for 4 kV range.
3.	DC Output Voltage	0-40 kV continuously variable.
4.	Impulse Sequence	Adjustable 3-10 sec. and single shot.
5.	Input Voltage	Single Phase, 230 V +/- 10 % @ 50 Hz.
6.	Metering	For Output Voltage, Current surge energy. The Metering shall bedigital & shall display actual surge energy, voltage & current.

Technical Specification for Van mounted automatic-modular fault location system for low and mediumvoltage cables.

7.	Safety Features	Thermal Trip, Zero Interlocks, Tripping fuses for HV/LV controls, Auto safe discharge of surge capacitor after switch off & in the event of drop in mains voltage. Emergency OFF switch. Main Input circuit breaker (MCB) separate system & protection grounding device.
8.	Indications	HV ON, Auxiliary supply ON.
9.	Other Accessories	HV cable of 60 kV class of insulation and 4 Sq.mm, minimum 50 meters long with suitable connecting clamps. Earthing cables of min.50 meters long with minimum size of 16sq.mm, class 1.1 KV suitable connecting clamps. LV cables of min. 50 meters long with minimum size of 3 C X 2.5 sq.mm. Auxiliary Earthing cable 15 meters long minimum size of 4 sq.mm. All cables shall be supplied on rewindable cable Drums mounted on vehicle.
10.	Size & weight.	Weight should not be more than 150 kg.
11.	Operating Temperature	-10°C to +50°C

6.2 Microprocessors controlled cable fault pre-locator:

The Microprocessors controlled cable fault pre-locator equipment shall be suitable for pre-location of cable faults by following methods-

Modes of operations:

- 1) **Pulse Reflection Method** - A pulse induced at the starting end of the cable reaches the cable fault with a speed of $V/2$ and then is reflected back toward the starting end of the cable. The elapsed time multiplied by the diffusion speed $V/2$ gives the distance to the source of the fault. The TDR should have min bipolar +/- 100 V voltage.
- 2) **Arc Reflection Method** - The arc reflection method of fault pre locating combines the use of a TDR Integrated TDR bipolar with +/- 100 V adjustable voltage.(cable radar) TDR (cable radar) and a surge generator. The instrument shall capture minimum 8 fault traces in ARM/SIM mode.

3) Impulse Current Method - based on impulse current oscillations. When a surge pulse is applied on a faulty core, the breakdown cause high current impulses are generated. They will start oscillating on the cable from fault point to instrument.

4) Voltage Decay Method - High DC voltage is applied gradually to the cable under test charging its capacitance until the high resistance fault breaks down.

5) Burning Method - Used for high resistance fault upto 40 kV ignition Voltage. Ignition voltage with min current of 500 mA.

Technical details of above system shall be as follows.

Sr. No.	Particulars	Technical specification
i)	Mode of Operation	Pulse Reflection, Arc Reflection Method, (0-4/0-8/0-16/0-32 kV) Impulse Current Method upto 32 kV, Decay Method upto 0-40 kV, Burn mode 40 kV, min. 500 mA)
ii)	Measuring Range	0 to 50 Km in suitable steps & HV method with sampling rate up to 400 MHz .
iii)	Resolution	0.1 meters (at V/2 80 m/μsec.)
iv)	Pulse Width	20 ns10 μsec
v)	Fault measuring Accuracy	0.1% of measuring range.
vi)	Velocity propagation	10 – 150 μsec.
vii)	Display	Colour 10" or higher colour TF touch screen.
viii)	Sampling Rate	Min. 400 MHz and above.
ix)	Memory	Shall have capacity to store minimum 50 thousand memories required.
x)	Power Supply	Shall work on single phase 230 V AC, 50 Hz, supply
xi)	Weight & size	It should be light in weight & compact in Size.
xii)	Interface	USB & Ethernet Port

The Arc reflection filter unit to be used to prelocate the high resistance, intermittent and flashing faults in conjunction with digital fault prelocator HV surge generator in arc reflection method, automatic discharge to be incorporated for discharging the HV leads in case of power breakdown or an interruption.

All necessary units required using the equipment in the above modes such as Arc reflection filter and CT and couplers should be included in the scope of supply integrated in the system.

6.3 D.C. H.V. Tester:

H.V. test instrument for testing of di- electric strength and insulation resistance measurement of the cable and cableinstallation.

Sr. No.	Particulars	Technical specification
1	Test Voltage	0-40KV(DC) continuous in suitable steps 4/8/16/32KV
2	Test range	0-4/0-8/0-16/0-32KV (Selectable)
3	DC-test (kV) / I (Min) (mA)	0-40kV/20mA, automatic breakdown detection
4	Input Power	230 V, 50 Hz
5	Display	Digital & graphical representation of voltage and current on the central control unit
6	Insulation resistance measurement	Integrated 0-15 kv minimum upto 500Mohm or more with the same set of HV cable. No external unit accepted
7	Protection	The instrument should be operational through control unitand should have protective PCBs for auto discharge, capacitor discharge, earth monitoring etc.
8	Features	Unit should have latest communication ports like USB andEthernet ports.

The surge generator, insulation resistance tester, pre-locator and DC tester shall be integrated as one unit and prelocator with all fault location methods as mentioned above to form a complete cable fault locating system and this shall be mounted on a suitable vehicle. In Arc reflection mode, unit should capture multiple fault traces minimum 8 on one single surge pulse. User should be able to select the best out of all the traces using the control Knob. The test report of same feature shall be submitted for verification. The complete operation voltage range selection test voltage, graphs etc. should be controlled using a central single control knob.

6.4 Cable Fault pinpointing set:

The bidder shall supply a portable, battery operated instrument consisting of a receiver and combined sensor which will measure electromagnetic and acoustic signals. The instrument shall pin point the location of faults when used with the surge generator. The strength of the magnetic field provided by the generator shall be indicated on a clear digital display. The measurement of acoustic noise shall be optimized through a switch-able filter which has a bandwidth designed to minimize ambient noise i.e. Vehicles, wind, etc. The pin-point equipment should work in TAR road, Cement concrete roads, and the ground microphone supplied should be wind protected. Coincidence measurement shall be possible by receiving and displaying both sensors simultaneously. The instrument shall also indicate the distance between the sensor and fault based on the time taken by the travelling signals. The headphone should facility communicate with the sensor wired (or) Bluetooth wireless both simultaneously.

Technical specification for pinpointing set:

Sr. No.	Particulars	Technical specification
1	Display	3 digit 7 segment LCD Display with backlight-separate channel for Acoustic & Magnetic, overflow display for distance value >100 msec.
2	Broad band frequency range	Magnetic/ Acoustic -100Hz to 1.5KHz (with filter)
3	Amplification Gain	Acoustic - > 110 dB Magnetic - > 110 dB
4	Back Ground noise Reduction	Inclusive
5	Impedance for ground microphone & Headphone	500 Ohm
6	Weight & size	It should be light in weight & of small size so that the operator can walk easily & concentrate on the fault easily.(not more than 3.5kg)
7	Power supply	As per requirement
8	Accessories	Ground Microphone suitable for pinpointing & sensing the acoustic as well as magnetic signals in concrete road, tar road, rocky & sandy soil. It should be wind protected Special Head Phone suitable for hearing & listening the lowest possible acoustic signal.
9	Ingress Protection Class	Shall be minimum IP – 54 (For receiver) Shall be minimum IP – 65 (For sensor)

- 1) It should have an auto ranging facility with a digital readout of relative distance to the fault.
- 2) It should have Bar graph-indication of the magnetic field strength for locating the cable path.
- 3) It should have Indication of battery condition.

6.5 Cable Locater and Identifier:

The Portable Cable Locator and Identifier should precisely locate and trace underground power cables, should comprise of the following major components.

Receiver:

- 1) Receiver should contain LCD display. It should be light weight upto 1Kg including route tracer sensor and display unit.
- 2) Internal alkaline battery holder and Rechargeable Battery Pack having battery back-up of continuous 20 hrs. (Min.) and intermittent 70 hrs. (Min).
- 3) Receiver should have Transmitter mode, Power Mode, RF mode.
- 4) Receiver should contain facility to apply minimum 36 active frequencies in the frequency range 512 Hz to 200 kHz. Frequencies should be user configurable.
- 5) Guidance : instrument should have :
 - left right arrow function
 - compass for providing orientation /line direction
 - Current signal strength should be visible on receiver display.
- 6) Receiver should also have current measurement function. There should be option to view the current measurement, live / in real time (when used in transmitter mode) during route tracing process.
- 7) Depth range measurement capability in transmitter mode: Upto 7m or higher. There should be option to view the depth measurement, live / in real time (when used in transmitter mode) during route tracing process.
- 8) Depth range in Power / RF mode : Minimum 2m.
- 9) Temperature Range: Operating -10 to +50 Deg. C.

10) Weatherproof and complying to : IP65.

11) Inbuilt GPS or Bluetooth facility.

12) The cable identification sensor should be supplied for identifying the target cable from a bunch of cables.

13) Additionally, the indicator should be able to connect with the pinpointer and cable identifier sensor. The function should be plug and play such the display unit automatically detect whether pinpointer, route tracer or the identifier sensor is connected.

Transmitter : (Output: High power transmitter with Lithium ion Rechargeable Battery):

- 1) Wattage : >12W, 5A, 160V or more
- 2) Frequencies available: frequencies in transmitter should be available upto 200kHz and user configurable including 117.850 kHz, 82.315 kHz, 65.536 kHz, 32.768 kHz, 8.192 kHz, 1.0 kHz, 877 Hz, 815Hz, 640 Hz & 512 Hz;
- 3) Display type: LCD or TFT colour display with 320 x 240 pixels.
- 4) Internal Battery: Lithium ion rechargeable Battery pack of capacity 10AH or 7.2 V with a backup of 2 hrs minimum.
- 5) Accessories: Direct Connection Lead and ground rod, signal clamp 4”.
- 6) It should be light weight up to 3Kg.
- 7) Receiver along with transmitter should work as cable identifier when cable identifier clamp is attached to the receiver.

6.6 Cable Drums:-

The unit shall be supplied with 50 meters cable each required for –

1. H.T. Cable
2. Grounding Cable.
3. Power Supply Cable.

7.0 Vehicle:

The Surge generator with integrated insulation tester, digital cable fault pre-locator, D.C testing set up, Arc reflection filters and cable drum forming a compact portable fault locating System shall be mounted on suitable vehicle Like **Force Tempo traveler 3350, Cargo, BS6 Engine, Diesel** with all necessary accessories and all safety requirements for operation. All Equipments shall be compact in size and shall be mounted on vehicle with a suitable payload.

8.0 Safety Features:

- Automatic Discharge and earthing switch.
- Protective Earthing cable min. 16 mm² for equity in potential between cable test van and station ground.
- Safety switching device with warning lights and an external Emergency-Off switch.
- Door Interlock- system will not operate if vehicle HV area Door is open.

9.0 TYPE TEST:

The tenderer shall furnish detailed type test reports of the Offered instrument for all the test as per Relevant standards. All the above type testes shall be carried out at laboratories which are accredited by the National Accreditation Board for testing and calibration laboratories (NABL) of Government of India/ International accredited laboratories to prove that the instruments offered meet the requirements of specification.

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. For this purpose, the tenderer shall quote unit rates for carrying out each type test. However, such unit rates will not be considered for evaluation of the offer. In case the unit fails in type test, the complete supply shall be rejected.

The Successful bidders shall take approval of type test from CE Testing & QC), Prakashgad, Bandra, Mumbai prior to commencement of supply.

In addition to type test reports, the tenderer shall furnish detailed Calibration report of the offered instrument carried out at NABL approved Laboratories / International accredited laboratories on all the equipment of cable fault locating system as per relevant standards to prove that the instrument offered meet the requirements of specification.

The list of type test reports as per applicable standards mentioned in following table shall be submitted with the offer. The offer without type test reports shall not be considered & offer will be treated as irresponsible. Type testing should be carried out within 5 years from the date of opening of tender.

Type Test Particular	Standard Applicable
EMC Generic Emission	DIN EN 61000-6-4
EMC immunity for industrial environments	DIN EN 61000-6-2
Environmental testing – Part 2 : Test A :Cold	DIN EN 60068-2-1
Environmental testing – Part 2 : Test B : Dry Heat	DIN EN 60068-2-2
Environmental testing – Part 2 : Test C : Damp heat, steady State	DIN EN 60068-2-66
Environmental testing – Part 2 : Test For : Vibrations	DIN EN 60068-2-6
Safety Requirements for electrical equipment.	DIN EN 61010-1
Degrees of Protection provided by enclosures (IP Code)	EN 60 529

10.0 Pre Dispatch Inspection:

The inspection shall be carried out at all the place of manufacturer unless otherwise agreed upon by the manufacturer and purchaser at the time of purchases. For imported equipments the supplier / tenderer shall offer the equipment at the authorized service centre / works of the original manufacturer in India or at the supplier's works / Testing centre. The manufacturer shall offer to the inspector representing MSEDCL.

The purchaser all the reasonable facilities, free of charge, for inspection and testing to satisfy him that the material is being supplied in accordance with this specification.

The joint inspection of the equipment will be carried out by inspection wing & the appointed Executive Engineer testing division.

11.0 Guarantee:

The instrument shall be guaranteed for the period of five years from the date of commissioning or five and half years from the date of Dispatch whichever is earlier. The Instrument found defective within the above guarantee period shall be replaced / repaired by the supplier free of cost within one month of the receipt of intimation, If the defective instruments are not replaced/repaired within the specified period above, the MSEDCL shall recover an equivalent amount plus 10 % supervision charges from any of the bills of the supplier.

12.0 Packing:

12.1 The instrument shall be suitably packed in order to avoid damage or disturbance during transit or handling. Each instrument may be suitably packed in the first instance to prevent ingress of moisture and dust and then placed in a cushioned carton of a suitable material to prevent damage due to shocks during transit. The lid of the cartoon may be suitably sealed. A suitable number of sealed cartons may be packed in a case adequate strength with extra cushioning if considered necessary. The cases may then be properly sealed against accidental opening in transit. The packing cases may be marked to indicate the fragile nature of the contents.

12.2 The following information shall be furnished with the consignment:

- Name of consignee
- CE marking
- Details of consignment
- Destination
- Total Weight of consignment
- Sign showing upper / lower side of the crate.
- Sign showing fragility of the material.
- Handling and unpacking instructions

- Materials indicating contents of each package
- Bill material

13.0 Demonstration of Equipments and Training of Engineers:

The successful supplier contractor shall train Engineers of the Purchaser free of charge on site for familiarization of design, application, operation and maintenance of the instrument at least for one year.

14.0 Schedules:

The tenderer shall fill in the following schedules which are part and parcel of the tender specification and offer. If the schedules are not submitted duly filled in with the offer, the offer shall be liable for rejection.

Schedule A
Guaranteed Technical Particulars

Sr. No.	Particulars	BIDDERS OFFER
1.	Surge Generator (Thumper)	Text
2.	Reference Standard - IEC or Equivalent	Text
3.	Manufacturers Name and Address	Text
4.	Manufacturers Type	Text
5.	Manufacturers Authorization	Text
6.	Voltage Range in KV - in steps i) 0-4 KV ii) 0-8 KV iii) 0-16 KV iv) 0-32 KV	Text
7.	Discharge Energy in Joules -1750 J (Min.) for each voltage range & 1100 Joules at 4 kV	Text
8.	Voltage – Adjustable	Text
9.	Display –Digital & graphical	Text
10.	Cycle time- 3 to 10 seconds and single shot	Text
11.	Input Voltage - 230 V \pm 10% at 50 Hz	Text
12.	Operating Temperature Range - Upto -10°C To 50°C	Text
13.	Weight : not more than 150 kg.	Text
14.	Microprocessor controlled cable fault pre-locator -	Text
15.	Measuring Range - 0 - 50 km.	Text
16.	Resolution – 0.1Mtr	Text
17.	Pulse Width - 20 ns ... 10 μ s	Text
18.	Sampling rate – more than 400 MHz (realsampling rate)	Text
19.	Accuracy- \pm 0.1% of range	Text
20.	Display Colour – 10 color or higher colour TF touch screen	Text
21.	Modes - Pulse Reflection, Impulse Current Method, Arc Reflection Method, Decay Method, Burn mode	Text
22.	Memory & Communication port - Min. 50000 memories & USB Port with Ethernetport.	Text
23.	Input Voltage - 230 V \pm 10% at 50 Hz	Text
24.	Operating Temperature Range -Upto -10 °C to 50 °C	Text
25.	Current coupler/voltage coupler. Tenderer should supply accessories suitable for their prelocator All the accessories should be integrated in single unit. No need of external coupler.	Text
26.	Arc Reflection Inductive Filter	Text
27.	Operating Temperature Range - up to 10 °To 50°C	Text
28.	Accessories to be supplied - To be supplied with all the necessary and standard accessories with instruction manual. All the accessories should be integrated in single unit. No need of external coupler.	Text

Technical Specification for Van mounted automatic-modular fault location system for low and mediumvoltage cables.

29.	D.C. H.V Tester -	Text
30.	Test voltage -0-40KV continous in suitable steps 4/8/16/32KV	Text
31.	a. DC-test (kV) / I max (mA) : 0 - 40 / 20 mA automatic breakdown detection b. Integrated min 15KV upto 500 Mohm or more insulation resistance measurement with same set of HV cables. No external unit accepted.	Text
32.	I/P Power -230V, \pm 10%, 50 Hz	Text
33.	Display- Digital& graphical representation of voltage and current on the central control unit.	Text
34.	Safety features - The instrument should be operational through separate control unit and should have protective PCBs for auto discharge, capacitor discharge, earth monitoring etc.	Text
35.	Fault pin-pointing set	Text
36.	Reference Standard - IEC or Equivalent	Text
37.	Manufacturers Name and Address	Text
38.	Manufacturers Type	Text
39.	Manufacturers Authorization	Text
40.	Amplification Adjustment range -Acoustic channel > 110 dB Magnetic channel > 110 dB	Text
41.	Display - LCD 3 digit / 7 segment display	Text
42.	Frequency range with filter -Generally within 100 Hz to1.5 kHz for (Magnetic/Acoustic), & 100 Hz to 1.5 kHz with filter. Automatic Mute function for headset	Text
43.	Power supply - As per requirement	Text
44.	Weight - (not more than 3.5kg)	Text
45.	Operating Temperature Range - upto -10 °C To 50°C	Text
46.	Accessories to be supplied - To be supplied with all the necessary and standard accessories, i.e. receiver, sensor, headphones, batteries carrying pouch along with instruction manual.	Text
47.	Ingress Protection class- shall be Min IP-54 for receiver & shall be minimum IP 65 for sensor	Text
48.	Cable Locator -	Text
49.	Reference Standard -IEC or Equivalent	Text
50.	Manufacturers Name and Address	Text
51.	Manufacturers Type	Text
52.	Manufacturers Authorization	Text
53.	Audio Frequency generator -	Text
54.	Out put Power -0- 10 W with suitable selectable steps.	Text
55.	Output frequency.	Text
56.	Should consist of background noise reduction feature by generating a coded signal in Signal Select mode	Text

Technical Specification for Van mounted automatic-modular fault location system for low and mediumvoltage cables.

57.	Power supply - 230V,±10%, 50 Hz	Text
58.	Dimensions & Wt – (not more than 3.5 kg & portable in size)	Text
59.	Operating Temperature Range – Upto (-10 °C to 50 °C)	Text
60.	Accessories to be supplied -To be supplied with all thenecessary and standard accessories and instruction Manual.	Text
61.	Indication - Analogue indication. TFT colour display with 320 x 240 pixels.	Text
62.	Audio frequency receiver -	Text
63.	Reference Standard - IEC or Equivalent	Text
64.	Receiving frequency - 50 Hz, & output frequency of the Generator	Text
65.	Gain – Auto & Manual Control.	Text
66.	Indications- LCD indication of signal & battery check	Text
67.	Power supply : Lithium Ion	Text
68.	Power output 0-10 watts	Text
69.	Frequency 480Hz,1450Hz & 9820Hz	Text
70.	Dimension & weight (not more than 3kg & portable in size)	Text
71.	Operating temp. range - 10 ⁰ C to 50 ⁰ C	Text
72.	Accessories to be supplied with all the standard accessories like search coil special type of headphone connecting leads along with instruction manual etc.	Text
73.	Cable Identification Instrument	Text
74.	Transmitter- the same transmitter of route tracer should be used with appropriate sensor.	Text
75.	i)Wattage : >=12 Watts,5A,160V or more	Text
76.	ii)Frequencies : 200kHz and user configurable including 117.850 kHz, 82.315kHz, 65.536 kHz, 32.768 kHz, 8.192 kHz, 1.0 kHz, 877 Hz, 815Hz, 640 Hz & 512 Hz	Text
77.	iii) Power supply - 230V,±10%, 50 Hz & battery (Lithium Ion)	Text
78.	iv)Accessories: Signal Clamp & carrying case	Text
79.	Identification Receiver	Text
80.	LCD Display Display of the route tracer receiver should also communicate with cable identifier coil automatically	Text
81.	Internal Antennas: 2 x Horizontal; and 1 x Null Antenna Appropriate cable identification sensor	Text
82.	Guidance : Left & Right arrows along ; Compass for providing orientation / Line directions	Text
83.	Current Measurement Function	Text
84.	Depth Range : upto 7Mtr. Or higher	Text
85.	Depth range in Power / RF mode : minimum 2 meter	Text
86.	GPS : instrument should have built in GPS or bluetooth facility	Text
87.	Cable, Cable drums and vehicle and other accessories -	Text

Technical Specification for Van mounted automatic-modular fault location system for low and mediumvoltage cables.

88.	HV Output cable of insulation 40kv.	Text
89.	Mains cable 50 Mtr Long.	Text
90.	Earthing cable 50 Mtr Long	Text
91.	Cable Discharge Rods	Text
92.	Cable Drums - Hand operated drum Suitable for Rewinding of HV cable, mains cable& Earthing cable.	Text
93.	Vehicle - The Surge generator with integrated insulation tester, digital cable fault prelocator, D.C testing set up ,arc reflection filters and separate cable drum forming a compact portable fault locating System shall be mounted on suitable vehicle The Surge generator, digital cable fault pre-locator, D.C testing set up ,arc reflection filters and cable drum forming a compact portable fault locating System shall be mounted on suitable vehicle with all necessary accessories and all safety requirements to operation. Force Tempo traveler Cargo, 3350,/3050, BS6 Engine, Diesel, suitable van supplied by MSEDCL.	Text
94	Guarantee - All supplied equipments accessories shall be guaranteed for 5 years with free replacement incase of any manufacturing defects.	Text
95.	Training -Successful bidder shall impart theoretical as well as practical training/demonstration to testing engineers and staff at site,at various locations.	Text

CABLE FAULT LOCATOR VAN MOUNTED TYPE

GTP Order Sequence	GTP Parameters	Date Type
1	Surge Generator (Thumper)	TEXT
2	Reference Standard - IEC or Equivalent	TEXT
3	Manufacturers Name and Address	TEXT
4	Manufacturers Type	TEXT
5	Manufacturers Authorization	TEXT
6	Voltage Range in KV - in steps i) 0-4 KV ii) 0-8 KV iii) 0-16 KV iv) 0-32KV	TEXT
7	Discharge Energy in Joules -1750 J (Min.) for each voltage range & 1100 Joules at 4kV	TEXT
8	Voltage – Adjustable	TEXT
9	Display -Digital & Graphical	TEXT
10	Cycle time- 3 to 10 seconds and single shot	TEXT
11	Input Voltage - 230 V \pm 10% at 50 Hz	TEXT
12	Operating Temperature Range - Upto -10°C To 50°C	TEXT
13	Weight : not more than 150 kg.	TEXT
14	Microprocessor controlled cable fault pre-locator -	TEXT
15	Measuring Range - 0 - 50 km.	TEXT
16	Resolution – 0.1Mtr	TEXT
17	Pulse Width - 20 ns ... 10 s	TEXT
18	Sampling rate – more than 400 MHz (real sampling rate)	TEXT
19	Accuracy- \pm 0.1% of range	TEXT
20	Display Colour – 10 colour or higher colour TF touch screen	TEXT
21	Modes - Pulse Reflection, Impulse Current Method, Arc Reflection Method, Decay Method, Burn mode	TEXT
22	Memory & Communication port - Min. 50000 memories & USB Port with Ethernet port.	TEXT
23	Input Voltage - 230 V \pm 10% at 50 Hz	TEXT
24	Operating Temperature Range -Upto -10 °C to 50 °C	TEXT
25	Current coupler/voltage coupler. Tenderer should supply accessories suitable for their prelocator.All accessories should be integrated in single unit.No need of external coupler.	TEXT
26	Arc Reflection Filter	TEXT
27	Operating Temperature Range - up to 10 °To 50°C	TEXT
28	Accessories to be supplied - To be supplied with all the necessary and standard accessories with instruction manual.All the accessories should be integrated in single unit.No need of external coupler.	TEXT

29	D.C. H.V Tester -	TEXT
30	Test voltage -0-40 KV in suitable steps 4/8/16/32KV	TEXT
31	a)DC-test (kV) / I max (mA) : 0 -40/20mA automatic breakdown detection.(b)Integrated min 15 KV upto 500 Mohm or more insulation resistance measurement with same set of HV Cables.No external unit accepted.	TEXT
32	I/P Power -230V, \pm 10%, 50 Hz	TEXT
33	Display digital & graphical representation of voltage and current on the central control unit.	TEXT
34	Safety features - The instrument should be operational through separate control unit and should have protective PCBs for auto discharge, capacitor discharge, earth monitoring etc	TEXT
35	Fault pin-pointing set	TEXT
36	Reference Standard - IEC or Equivalent	TEXT
37	Manufacturers Name and Address	TEXT
38	Manufacturers Type	TEXT
39	Manufacturers Authorization	TEXT
40	Amplification Adjustment range -Acoustic channel > 110 dB Magnetic channel > 110 dB	TEXT
41	Display - LCD 3 digit / 7 segment display	TEXT
42	Frequency range with filter -Generally with in 100 Hz to1.5 kHz for (Magnetic/Acoustic), & 100 Hz to 1,5 kHz with filter. Automatic Mute function for headset	TEXT
43	Power supply – As per requirement	TEXT
44	Weight – (not more than 3.5kg)	TEXT
45	Operating Temperature Range - upto -10 °C To 50°C	TEXT
46	Accessories to be supplied - To be supplied with all the necessary and standard accessories, i.e. receiver, sensor, headphones, batteries carrying pouch along with instruction manual	TEXT
47	Cable Locator -	TEXT
48	Reference Standard -IEC or Equivalent	TEXT
49	Manufacturers Name and Address	TEXT
50	Manufacturers Type	TEXT
51	Manufacturers Authorization	TEXT
52	Audio Frequency generator -	TEXT
53	Out put Power -0-10 W with suitable selectable steps.	TEXT
54	Output frequency.	TEXT
55	Should consist of background noise reduction feature by generating coded signal in signal select mode.	TEXT
56	Power supply - 230V, \pm 10%, 50 Hz	TEXT
57	Dimensions & Wt – (not more than 3.5 kg & portable in size)	TEXT
58	Operating Temperature Range – Upto (-10 °C to 50 °C)	TEXT

59	Accessories to be supplied -To be supplied with all the necessary and standard accessories and instruction Manual	TEXT
60	Indication - Analogue indication.TFT colour display with 320X240 pixels.	TEXT
61	Audio frequency receiver -	TEXT
62	Reference Standard - IEC or Equivalent	TEXT
63	Receiving frequency - 50 Hz, & output frequency of the Generator	TEXT
64	Gain – Auto & Manual Control.	TEXT
65	Indications- LCD indication of signal & battery check	TEXT
66	power supply : Lithium Ion	TEXT
67	Power output 0-10 watts	TEXT
68	frequency 480Hz,1450Hz & 9820Hz	TEXT
69	Dimension & weight (not more than 3kg & portable in size)	TEXT
70	Operating temp. range - 10°C to 50°C	TEXT
71	Accessories to be supplied with all the standard accessories like search coil special type of headphone connecting leads along with instruction manual etc.	TEXT
72	Cable Identification Instrument	TEXT
73	Transmitter-the same transmitter of route tracer should be used with appropriate sensor.	TEXT
74	i)Wattage : >=12 Watts,5A,160V or more	TEXT
75	ii)Frequencies : 200kHz and user configurable including 117.850 kHz, 82.315 kHz, 65.536 kHz, 32.768 kHz, 8.192 kHz, 1.0 kHz, 877 Hz, 815Hz, 640 Hz & 512 Hz	TEXT
76	iii) Power supply - 230V,±10%, 50 Hz & battery (Lithium Ion)	TEXT
77	iv)Accessories: Signal Clamp & carrying case	TEXT
78	Identification Receiver	TEXT
79	LCD Display Display of the route tracer receiver should also communicate with cable identifier coil automatically	TEXT
80	Internal Antennas: 2 x Horizontal; and 1 x Null Antenna Appropriate cable identification sensor	TEXT
81	Guidance : Left & Right arrows along ; Compass for providing orientation / Line directions	TEXT
82	Current Measurement Function	TEXT
83	Depth Range : upto 7 Mtr. Or higher	TEXT
84	Depth range in Power / RF mode : minimum 2 meter	TEXT
85	GPS : instrument should have built in GPS or bluetooth facility	TEXT
86	Cable, Cable drums and vehicle and other accessories -	TEXT
87	HV Output cable of insulation 40kv.	TEXT
88	Mains cable 50 Mtr Long.	TEXT
89	Earthing cable 50 Mtr Long	TEXT
90	Cable Discharge Rods	TEXT
91	Cable Drums - Hand operated drum Suitable for Rewinding of HV cable, mains cable& Earthing cable.	TEXT

92	Vehicle - The Surge generator with integrated insulation tester, digital cable fault prelocator, D.C testing set up ,arc reflection filters and separate cable drum forming a compact portable fault locating System shall be mounted on suitable vehicle System shall be mounted on suitable vehicle with all necessary accessories and all safety requirements to operation. Force Tempo traveler Cargo, 3350,/3050, BS6 Engine, Diesel, suitable van supplied by MSEDCL.	TEXT
93	Guarantee - All the supplied equipments accessories shall be guaranteed for 5 years with free replacement in case of any manufacturing defects	TEXT
94	Training -Successful bidder shall impart theoretical as well as practical training/demonstration to testing engineers and staff at site, at various locations	TEXT
95	Ingress Protection class- shall be Min IP-54 for receiver & shall be minimum IP 65 for sensor	TEXT

Required Documents (To be uploaded online)

Sr. No.	NAME	SECTION	ITEM	DESCRIPTION
1	Annexure-E	Technical Section	CABLE FAULT LOCATOR VAN	QR-5 Annexure-E-Consent for supplying the material as per MSEDCL Standard Technical Specifications and Standard GTP.
2	Qualifying Requirement-5	Technical Section	CABLE FAULT LOCATOR VAN	QR 5.Type test certificate: For all tendered material, valid Type test certificates as per MSEDCL's tech. specs (Annex-D) which are carried out within 5 years from Labs which are accredited by NABL.
3	Qualifying Requirement-7	Technical Section	CABLE FAULT LOCATOR VAN	QR-7 A list of machinery / equipment and testing facility available at their Works shall also be furnished along with the offer.
4	Qualifying Requirement-6	Commercial Section		QR-6: FORMAT- 4:Documentary evidence showing annual turnover of last 3 years, certified by CA for preceding three FYs 2021-22,22-23,23-24
5	Qualifying Requirement-7	Commercial Section		QR-7: Please submit list of machinery/equipment and testing facility available at your works.
6	Qualifying Requirement-8	Commercial Section		QR-8: Please submit ISO certification for QMS (ISO 9001) & environmental management system(ISO-14001).
7	Qualifying Requirement-9	Commercial Section		QR-9: Please submit documentary evidence regarding fully equipped technical support office/lab for facilities of testing, calibration, adjustment, diagnosis & repair of equipment in India itself.
8	Qualifying Requirement-10	Commercial Section		QR-10: Please submit documentary evidence towards bidder have their own service centers and Trained Engineers & list of Plant and Machinery, tools and tackles to carry out
9	QR-11 Annexure U-I	Commercial Section		QR-11: Please submit Annexure U-I , if the company is an Indian Subsidiary Company.
10	Manufacturing capacity	Commercial Section		Submit documentary evidence (for e.g. MSE/NSIC Certificate /CA/CE Certificate etc.) for manufacturing capacity to cover the quantity offered by the bidder & considering orders in hand.
11	Annexure-I	Commercial Section		Submit Certificate regarding not been debarred by any Ministry of GoI/GoM / state owned electricity distribution Utility & not been guilty of malpractices during the last 5 years.
12	Format-1	Commercial Section		Please submit Quantity & Delivery Schedule as per Format-1
13	Format-2	Commercial Section		Please submit Undertaking certifying that Bidder have not approached any one for undue influence as per Format-2
14	Format-3	Commercial Section		Please submit Certificate from CA for not having controlling stake in more than one entity as per clause no VIII(B) in format of Format-3

Sr. No.	NAME	SECTION	ITEM	DESCRIPTION
15	Format-5	Commercial Section		Please submit Certificate For No Deviation as per Format-5
16	Format-7	Commercial Section		Please submit List of orders in hand certified by Chartered Accountant as per Format-7
17	EMD	Commercial Section		EMD Payment/ Exemption details: Copy of Money Receipt/D.D./ BG for EMD paid or Copy of MSC/ NSIC Certificate for EMD Exemption.
18	MSME certificate	Commercial Section		Plz.Submit Documentary evidence in respect of classification of your unit as per Micro, Small and Medium Enterprises Development Act 2006.
19	12 (j) bought out items	Commercial Section		Submit detailed list of bought out items which got into the manufacture of shall be furnished indicating the name of the firms from whom these items are procured
20	Quality assurance plan	Commercial Section		quality assurance plan invariably along with offer followed by him in r/o of the bought out items, items mfgd by him & raw materials in process as well as final inspection, packing & marking.
21	GST certificate	Commercial Section		Please submit documentary evidence in respect of registered under the GST Law.
22	Balance sheet and PL Statement	Commercial Section		Please submit Copy of balance sheet and profit and loss Accounts of last 3 Years certified by Chartered Accountant.
23	Format-11-POWER OF ATTORNEY	Commercial Section		Please submit Notarized power of attorney in favor of appointed agent / representative as per Format-11-POWER OF ATTORNEY
24	Qualifying Requirement-4	Commercial Section		QR-4: Please submit document/PO copies as per Cl. No.4 of QR of Section-I for successfully executed orders as prime contractor at least 3 contracts within last 5 years.
25	Qualifying Requirement-3	Commercial Section		QR-3: submit Format-6 for minimum 5 Job copies of orders executed and order completion certificate for Van mounted modular automatic fault location system for low and medium voltage cables
26	Qualifying Requirement-1	Commercial Section		QR 1: Please upload document towards original equipment manufacturer/sole authorized dealer/accredited representative of
27	Qualifying Requirement-2	Commercial Section		QR-2: Please submit operating experience as per Cl. No.- II (2) of QR of Section-I.