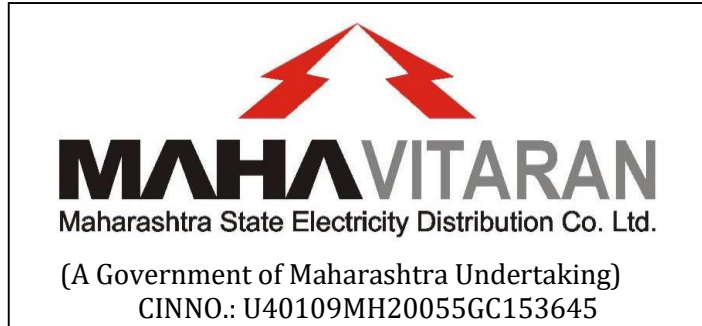


| Tender Details                                |  | 07-12-2023 06:35:59 |
|---|--|---------------------|
| Tender Code                                   | SE/DHLC/T-08/2023-24   |                     |
| Tender Type                                   | Works Tender   |                     |
| Type Of Bid                                   | Two Bid  |                     |
| Description                                   | Substation preventive maintenance under Dhule Rural division |                     |
| Estimated Cost (In Lakhs)                     | 25   |                     |
| Basis of prices                               | NA   |                     |
| Tender Validity                               | NA   |                     |
| Delivery Requirement (In Months)              | NA   |                     |
| Tender on rate contract basis                 | NO   |                     |
| Tender Fee (In INR)                           | 2500   |                     |
| GST In INR (@18% on Tender Fee: SAC No.       | 450  |                     |
| Total Tender Fee Amount including GST in INR. | 2950   |                     |
| Contact                                       | Shri R G Hadke , 7875766769<br>,sedhule@gmail.com            |                     |
| Pre-Qualifying Req                            | As per tender terms & conditions                             |                     |
| Budget Type                                   | Revenue  |                     |
| Scheme Code                                   | NA   |                     |
| Scheme Name                                   | NA   |                     |
| Department                                    | Distribution Department                                      |                     |
| Office Type                                   | CIRCLE   |                     |
| Location Type                                 | Dhule Circle   |                     |
| Designation                                   | Executive Engineer(Distribution)                             |                     |
| Pre-Bid Meeting Address                       | Circle office Dhule, Near Income Tax office, Dhule           |                     |
| Bid Opening Address                           | Circle office Dhule, Near Income Tax office, Dhule           |                     |
| Version No                                    | 1  |                     |
| Call for Deviation                            | NO   |                     |
| Is Annexure C1 Applicable                     | NA   |                     |
| Is Manufacturer Applicable                    | NO   |                     |
| Is Trader Applicable                          | NO   |                     |
| Minimum % of Offered Quantity                 | NA   |                     |
| Is Power Supplier Applicable                  | NO   |                     |
| Tender Sale Start Date                        | 08-12-2023 00:00   |                     |
| Tender Sale End Date                          | 14-12-2023 12:45   |                     |
| Bid Start Date                                | 08-12-2023 00:15   |                     |
| Bid End Date                                  | 14-12-2023 13:00   |                     |
| Pre-Bid Meeting Date                          | 11-12-2023 15:00   |                     |
| Techno-Commercial Bid opening on              | 14-12-2023 16:00   |                     |
| Price Bid opening on                          | 14-12-2023 17:00   |                     |
| Annexure C1 Opening Date                      | NA   |                     |
| Winner Selection Date                         | 14-12-2023 18:00   |                     |

|                              |   |
|------------------------------|---|
| Can Bidder Opt EMD Exemption | N |
|------------------------------|---|

**MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY  
LIMITED**



**TENDER DOCUMENT**

***Preventive Maintenance of 33/11 kv Substations under  
Dhule Rural Division of Dhule Circle under Jalgaon Zone.***

**(SE/DHLC/T-08/2023-24)**

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

Office of the Superintending Engineer,  
Maharashtra State Electricity Distribution Co. Ltd.  
(Dhule)

Dist-Dhule Pin:- 424001  
Telephone : (02562-247741),  
Email: sedhule@gmail.com

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## SECTION-I

### BID INVITATION

#### 1. Introduction

The Maharashtra State Electricity Distribution Company Ltd. (MSEDCL), represented by the Superintending Engineer, Dhule wishes to intend for ***“Preventive Maintenance of 33/11 kv Substations under Dhule RURAL Division of Dhule Circle under Jalgaon Zone for 1 year from the date of issue of order i.e. FY 2023-24 and as described in the Bidding Data under single point responsibility “Partial Turnkey Contracts”.***

#### 2. Brief description for the Bidding Process:

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

### **BIDDING INFORMATION**

|   |  |  |
|---|--|--|
| 1 | Tender Reference No.                                   | SE/DHLC/T-08/2023-24   |
| 2 | Sale of Tender Form on weblink                         | 08.12.2023 to 14.12.2023   |
| 2 | Last date & Time for submission of Bids                | 14.12.2023 13:00 Hrs   |
| 3 | Date of Pre-Bid Meeting                                | 11.12.2023, 15:00 Hrs  |
| 4 | Date & Time of opening of Technical Bid                | 14.12.2023, 16:00 Hrs ( If Possible)   |
| 5 | Address for communication and Venue for Tender opening | sedhule@gmail.com  |
| 6 | Tender processing fee                                  | Rs. 2500/- + 18% GST as applicable (Non-refundable & Non Transferable)   |
| 7 | Earnest Money Deposit (EMD)                            | Rs. 25,000/- only (can be paid by either DD in favour of MSEDCL or Online.   |
| 8 | Performance Bank Guarantee in lieu of Security Deposit | <p>The successful bidder shall furnish the performance Bank guarantee within 14 calendar days from the issue of the offer letter in the form of an unconditional and irrevocable Bank Guarantee for an amount of <b>05% of Contract value</b> denominated solely in INR payable and claimed at Dhule issued either by a Nationalized or Scheduled Bank located in Maharashtra &amp; acceptable to MSEDCL and valid for the period for 1 years. During contract period, at any time the value of PBG should not be less than 5% of the value of executed works. In case the PBG amount is less than 5% of the value of executed</p> |

|  |  |   |
|--|--|---|
|  |  | works the contractor will have to submit additional PBG so as to make the total value of PBG at least equal to 5% of value of the executed quantity for the further period of 1 year. |
|--|--|---|

**Note:**

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

## SECTION-II

### INSTRUCTION TO BIDDERS

The **Superintending Engineer Dhule**, on behalf of MSEDCL invites bids from eligible bidders along with rates for 1 year i.e. FY 2023-24 .

#### 1. Scope of Contract:

The Scope of contract is as below:

- A. To carry out ***Preventive Maintenance of 33/11 kv Substations under Dhule RURAL Division of Dhule Circle under Jalgaon Zone*** . Major material required under contracts as per list enclosed (Annexure C) shall be supplied or provided by MSEDCL; and contractor will have to supply minor items in nature of consumable only.
- B. In case any major material is not available with MSEDCL the same shall be supplied by the contractor at the prevailing cost data of MSEDCL together with price indexing, if applicable.
- C. Detailed execution Plan for timely implementation of work is to be submitted by the contractor immediately after allotment of work order.
- D. The selected bidder shall have his Office within the jurisdiction of the works for attending the emergency services.
- E. The contractor shall be for 1 year period i.e. FY 2023-24 however the performance of agencies will be reviewed in the month from Dec to Feb of every year and poor/non performing contractor will be weeded out with proper justified reason after giving opportunity to bidder to explain his side.
- F. Bids shall be complete and cover all Works described in the price schedule. Any item of works required for complete usable system shall be deemed to be included in bidder's scope irrespective of whether it is specifically mentioned or not in the price schedules, the same can be brought to notice of Tendering authority during Pre-Bid meeting.
- G. Bidder should note that obtaining permissions from statutory bodies wherever required for execution of works, shall be entirely in bidder's scope. However, MSEDCL will extend its maximum support for obtaining these permissions on best effort basis.
- H. Partial bids, or bids which do not cover the entire scope of the works will be treated as incomplete and not responsive to the terms and conditions of bidding and are liable to be rejected.



## 2. Eligibility and qualifying criteria :

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

### A. Technical Qualification:

- (i) The bidder should have at least 3 years experience as a licensed Electrical contractor in construction, erection, testing, commissioning and maintenance of substations.
- (ii) Specific Experience: The Bidder should have experience of execution of turnkey or partial turnkey contracts during the last 3 years for substation maintenance works

All the components of electrical works mentioned above should be in successful operation for at least one (1) year as on date of submission of bid;

Work experiences of the bidder as per above shall be considered only if the works have been executed under Govt./semi-Govt./autonomous body of Central/State Govt./Electricity Power Utility/ Public works, Distribution franchisee appointed by MSEDCL and under Dedicated Distribution Facility (DDF) scheme work approved by MSEDCL.

### B. Financial Criteria:

- (i) The Bidder should have executed minimum two work orders / contracts for similar works equivalent to amount of Rs. 10 Lakhs each in any sector during the last 3 financial years.
- (ii) The bidder should have an average annual financial turnover of Rs.25 Lakhs during last consecutive 3 financial years.
- (iii) The bidder shall have a **positive net worth**.

C. The Bidder should have GST/PAN Registration Certificate.

D. The Bidder should deploy sufficient man power for carrying out the maintenance work, however the contractor should provide the manpower at least as mentioned in Annexure-A

E. The Bidder should have PF Registration

F. The Bidder should have taken Group Insurance Cover for his Employees.

G. The Bidder should have required Tool & Plants for these works, minimum requirement for qualification is as per Annexure-B.

### 3. Instructions to bidders:

- i (a) All bids must be accompanied by EMD as specified in the Tender Notification (Section-I) and uploaded on or before the prescribed date and time given in Section-I of this document. Bids submitted without EMD will be summarily rejected. Bidder shall upload the required documents through electronic mode as part of their proposal.
- (b) The Bidder shall also upload copies of
  - (i) Central and State GST registration Certificate
  - (ii) PAN issued by appropriate authority.
  - (iii) Income Tax returns of previous three assessment years.
- ii. The Bid uploaded by the Bidder and all correspondence and documents in relation to the bid shall be in English Language. For more details refer Clause 6 of this section.
- iii. Bidders are not allowed to participate in the bid on consortium basis.
- iv. Bidder should upload only those documents which are asked to upload in the Tender document. Any extra document may make bid as qualified bid and may be rejected at discretion of MSEDCL.
- v. Technical proposal which are submitted by non-qualified bidder or which are evaluated to be non-responsive will be rejected and shall not be considered for detailed technical evaluation.
- vi. Only bids conforming to minimum eligibility criteria and found to be technically responsive will be taken up for further evaluation. During evaluation of Bids, MSEDCL, may, at its discretion, ask the bidders for clarification of their proposals.
- vii. The bidder shall quote their rates considering market and site condition and variation in price index etc. The quoted rates by the bidder shall remain the same.
- viii. MSEDCL will not entertain any claim at any stage from successful bidder on the plea of not having sufficiently acquainted himself as to site condition before submitting price bid etc.
- ix. Financial bid of the technically qualified bidders to be opened on selected date and the place intimated to technically qualified bidders through e-mail.

4. The work order is not transferable. Subletting is not allowed.

5. MSEDCL reserve rights

(a) To reject or accept any or all bids wholly or partly without assigning any reason on the ground considered advantageous to MSEDCL.

**6. Language of Bid:**

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

**7. Documents Comprising the Bid:**

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

**Part-I: Technical Bid**

Bidder shall submit relevant certificates to demonstrate the financial, technical capabilities & eligibility criteria prescribed under this Tender Document. In this regard the Bidder shall upload following minimum documents/ information (form of consent of Lowest matching offer is optional) for technical or financial evaluation.

- i. Bidder's Information sheet(Appendix-I(A))
- ii. Firm's Profile at a Glance(Appendix-I(B))
- iii. Financial Status (Appendix-I(C))
- iv. Annual turnover (Appendix-I(D))
- v. Installation and performance credentials (Appendix-III)
- vi. Experience (Appendix-IV)

**Part-II: Financial bid**

- (i) The bidder shall submit the price schedule as furnished in the tender document. Each entry in the price bid form should be filled.
- (ii) The bidder shall quote the rates for each schedule inclusive of Installation/Handling of material/Equipment testing, commissioning and consumable. Taxes as applicable will be paid extra.
- (iii) Prices shall be quoted in Indian Rupees.
- (iv) For Technical specifications, Please refer MSEDCL website i.e. <https://www.mahadiscom.in/supplier/#> .
- (v) Any Financial Bid uploaded with conditions different from the tender specification will be rejected.

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

- A. The Bidder shall furnish along with the Technical Proposal, an **E.M.D. of Rs. 25000.00(Rs. Twenty five thousand only)**. Payable either by DD in favour of MSEDCL or in the form of account transfer through RTGS/NEFT into Account No. **10866574249 of SBI, Dhule IFSC Code-SBIN0000366** or in the form of Bank Guarantee as per Appendix-IV.
- B. Any bid not accompanied by an acceptable E.M.D. shall be rejected by MSEDCL as non-responsive.
- C. The E.M.D. of the successful bidder will be returned when the bidder has signed the Contract Agreement and furnished the required Performance Bank Guarantee.
- D. The E.M.D. of the unsuccessful bidders will be returned as promptly as possible, after finalization of tender.
  - (i) If a Bidder withdraws his Bid during the period of Bid validity Specified by the Bidder on the Bid Form its E.M.D. will be forfeited.
  - (ii) If the successful Bidder fails to furnish performance security in accordance with Clause 21 of Section - II, its EMD will be forfeited.
  - (iii) If the successful Bidder fails to furnish performance security in accordance with Clause 22 of this Section - II of this Section, its EMD will be forfeited

## 9. Period of Validity of Bid:

- A. In some circumstances, MSEDCL may solicit the Bidder's consent to extend the period of validity. The consent for extension, if any, shall be given in writing. The EMD provided under clause (9) of this Section – II

above shall also be suitably extended. A Bidder extending the bid validity will not be permitted and modify its original bid.

- B. Bids shall remain valid for 60 days after the date of opening of Technical Bid. A Bid valid for a shorter period shall be rejected by MSEDCL as non-responsive.

#### **10. Amendment to Bid document:**

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

#### **11. Format of Bid**

- A. The bid shall be signed by a person or persons duly authorized to sign on behalf of the bidder. The bidder shall submit declaration to confirm that he has read and accepted all the contents and conditions contained in entire bid document including financial bid containing price proposal.
- B. Bidder must give clear page numbers to each page of his offer and a detail index should be provided indicating the page numbers for each relevant document comprising his offer. Checklists for documents and data to be furnished by the Bidders have been given elsewhere in the Bid document, separately for Technical Proposal and Price Proposal. Bidders must fill in these checklists clearly indicating whether corresponding document is submitted or not and if submitted, the relevant page number. If a document is not found at the corresponding page number given in the index, it will be concluded that the said document is not submitted by the Bidder.

#### **12. Mode of submission of bids:**

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

### **13. Submission of Bids:**

#### **Sealing and Marking of Bids:**

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

### **14. Deadline for Submission of Bids:**

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

### **15. Clarification of Bids:**

During evaluation of Bids, MSEDCL may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing on e-mail id mentioned in Section-I of the bid and no change in prices or substances of the Bid shall be sought, offered or permitted.

### **16. Acceptance or Rejection of Bids:**

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

### **17. Preliminary Examination of Price Bid:**

Upon examination of bid, Arithmetical errors found if any will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the lower of the two will prevail. If the Bidder does not accept the correction of errors, its bid will be rejected.

## **18. Opening and Evaluation of Proposals:**

### **A. Opening of Pre-Qualification cum Technical Proposals:**

- a. MSEDCL will open the Technical Proposals on the date and time designated in the E-Tender Notice/ Bid Document.
- b. The time and date of the opening of the Price Bids will be informed through auto generated email to technically qualified bidders.

### **B. Examination of Technical Proposals and Determination of Responsiveness:**

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

### **C. Clarification of Technical Proposals and Contacting MSEDCL:**

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



the provisions.

#### **D. Financial Evaluation:**

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

#### **E. Determination of the Lowest quoted price against the scope of work**

- a. The Lowest total aggregate value of the work calculated on the rates (exclusive of applicable taxes) quoted by the bidder against given schedule/schedules shall be declared as L-1 Bidder on the basis of NPV @ 10% discounted factor. MSEDCL at sole discretion, if found necessary, may negotiate the offer of "L-1 bidder".
- b. In case of rate quoted in words and figure are different, the lowest of the two shall be considered (i.e. which is beneficial to MSEDCL)

### **19. Signing of Contract**

- A. At the same time that MSEDCL notifies the successful bidder that its bid has been accepted, MSEDCL will send the bidder the Form of Contract, incorporating all agreements between the parties.
- B. Within 14 days of receipt of the LOI, the successful bidder shall sign the Form of Contract on Stamp Paper (non-judicial) borne by the bidder as per the rate specified in Bombay Stamp Act 1958 issued in Maharashtra and return it to MSEDCL.

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

- A. The successful bidder shall furnish the performance Bank guarantee within 14 calendar days from the issue of the offer letter in the form of an unconditional and irrevocable Bank Guarantee for an amount of **05% of Contract Value** denominated solely in INR payable and claimed at Dhule issued either by a Nationalized or Scheduled Bank located in Maharashtra & acceptable to MSEDCL and valid for the period for 1 years. During contract period, at any time the value of PBG should not be less than 5% of the value of executed works. In case the PBG amount is less than 5% of the value of executed works the contractor will have to submit additional PBG so as to make the total value of PBG at least equal to 5% of value of the executed quantity for the further period of 1 year.



- B. The defect liability period of the works including the material shall be 1 year which includes free replacement of defective/ non-working/ faulty/ malfunctioning allied materials within Contractual period till completion of guarantee period of 1year of commissioning.
- C. Prior to making a claim under the Performance Bank Guarantee, MSEDCL or MSEDCL representative shall, in every case, notify the Contractor stating the nature of the default for which the claim is to be made.

## **21. Forfeiture of Performance Bank Guarantee**

- A. The performance Bank Guarantee submitted in lieu of security deposit specified in the clause 22 will be liable to be forfeited if
  - (i) The contractor fails to initiate the works after award of contract or
  - (ii) The progress of works lagging behind the intended progress of works
  - (iii) The contract is terminated due to the reasons attributed to the contractor or
  - (iv) The quality of material is not as per standard or if the works is not carried out as per standard method of construction, or not observing the rules and regulations.
- B. The performance bank Guarantee shall not be forfeited unless the opportunity of being heard has been reasonably given to the party and no sign of improvement has been observed.

## **22. Corrupt or Fraudulent Practices**

- A. The Maharashtra State Electricity Distribution Company Ltd. requires that the bidders observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, MSEDCL defines for the purposes of this provision, the terms set forth below as follows:
  - a. “**corrupt practice**” means behaviour on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/ or those close to them, or induce others to do so, by misusing the position in which they are placed, and it

includes the offering, giving, receiving or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; and

- b. **“fraudulent practice”** means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of MSEDCL, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive MSEDCL of the benefits of free and open competition.

- B. MSEDCL will reject a proposal for award if it determines that the bidder recommended for award is engaged in corrupt or fraudulent practices in competing for the contract in question;
- C. MSEDCL will declare a firm ineligible, either indefinitely or for a specific period of time, to be awarded an MSEDCL contract if at any time if it is found that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, an MSEDCL Assignment.

## **23. Change in Laws and Regulations**

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

## SECTION – III

### GENERAL CONDITIONS OF CONTRACT (GCC)

The following are the General Conditions of Contract.

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

#### 1. THE CONTRACT

##### A. Definitions

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

##### a. Dates, Times and Periods

- i. **"Commencement Date"** means the date of issue of work order by the concern Superintending Engineer/ Executive Engineer
- ii. **"Contract Period"** means the period from the Commencement Date to the date of completion of the guarantee period.
- iii. **"Defect Correction / Liability Period"** means the period for correction of the Defect by the Contractor, beginning from receipt of the Notice of Defect from MSEDCL by the Contractor and extending up to days thereafter.
- iv. **"Defect Notice Period"** means the period after observation of the Defect within which MSEDCL should notify the Contractor about the Defect. Notification of the Defect will normally be made immediately after its observation.
- v. **"Guarantee Period"** means the time as stated in the Appendix to Tender for guaranteeing the Plant, Equipment, and Materials against defects in materials, workmanship and manufacturing defects, calculated from the date upon which the entire Works (completion and commissioning of all the useful Sections in all respect) have been completed as certified by MSEDCL Representative. The term "Defects Liability Period" is synonymous with the term "Guarantee Period".

## b. Documents

- i. **"Contract"** means the agreement if any to be entered into by MSEDCL with the contractor and shall include these Conditions of Contract, MSEDCL Requirements, the Tender, the Contractor's Proposal, the Schedules, the Letter of Award and such further documents as may be expressly incorporated in the Letter of Award or Contract Agreement (if completed) and any further conditions which may be specifically agreed to between the parties as forming the part of contract.
- ii. **"Employer's Requirements"** means the description of the scope, standards, design criteria (if any) and program of work, as included in the Contract, and any alterations and modifications thereto in accordance with the Contract. The Conditions of Contract, Technical Specifications, Drawings, Appendix to tender and all other information contained in the Bid documents form an integral part of MSEDCL Requirements.
- iii. **"Letter of award"** means the formal acceptance by MSEDCL of the tender. The term "Letter of award" is synonymous with the term "Notice of Award".
- iv. **"Rate Contracts"**: The Rate Contract is a contract under which, during the period of its currency, the contractor engages to supply materials on demand, irrespective of quantity, at fixed unit rates or prices, within a given period of the receipt of such demand.
- v. **"Tender/ Expression of Interest (EoI)"** means the Contractor's priced offer to MSEDCL for the works, as accepted by the Letter of Award. The word 'tender' is synonymous with 'bid'.

## c. Money and Payments

- i. **"Contract Price"** means the sum stated in the Letter of award as payable to the Contractor for the design, execution, testing, commissioning and completion of the Works and the remedying of any defects in accordance with the provisions of

the Contract, including guarantee of the Works and plant during the defects liability period.

- ii. **"Cost"** means all expenditure properly incurred (or to be incurred) by the Contractor, whether on or off the Site, including overhead and similar charges, but does not include profit.

#### d. Other Definitions

- i. **"Contractor's Equipment"** means all machinery, apparatus and other things (other than Temporary Works) required for the execution, completion and guarantee of the Works and the remedying of any defects, but does not include Plant and Equipment, Materials, or other things intended to form or forming part of the Permanent Works.
- ii. **"Defect"** means any part of the Works not completed in accordance with the Specifications and terms and conditions of Contract, including any Works or part thereof which becomes faulty during the Guarantee (Defects Liability) Period.
- iii. **"Guarantee"** means the supply of all things necessary so as to remedy any defects in workmanship, materials, plant and equipment and guarantee proper operation of the constructed facilities for the period of 1 year after completion of the Works, all in accordance with the conditions of the Contract. **"Materials"** means things of all kinds (other than Plant) to be provided and incorporated in the Permanent Works by the Contractor, including the supply-only items (if any) which are to be supplied by the Contractor as specified in the Contract.
- iv. **"Site"** means the places provided by MSEDCL where the Works are to be executed at the locations identified and to which Plant/substation and Materials are to be delivered and any other places as may be designated in the Contract as forming part of the Site.
- v. **"Specifications"** mean and include collectively all the terms and stipulations contained in the bid document including the Conditions of Contract, technical provisions and annexure thereto, addenda and lists of corrections, amendments and

clarifications, as well as any variations issued by MSEDCL Representative during the course of the Contract.

- vi. **"Works"** means the Permanent Works and the Temporary Works or either of them as appropriate, including supply, transportation, construction, erection, testing, pre-commissioning, maintenance

#### e. **Persons**

- i. **"MSEDCL"** means Maharashtra State Electricity Distribution Company Limited; a company incorporated under the Company's Act 1956 after the restructuring of the erstwhile Maharashtra State Electricity Board having its registered office at Plot No. G-9, Prakashgad, Bandra (East), Mumbai 400 051.
- ii. **"Arbitrator"** means a person agreed by the parties to act as Arbitrator or a person appointed by MSEDCL to settle any dispute or differences between MSEDCL and the Contractor and named as such is specified Tender and shall include "Principal Arbitrator".
- iii. **"Contractor/ Agency"** means the entity supplying the goods and services under this contract
- iv. **"Contractor's Representative"** means the person (if any) named as such in the Contract or other person appointed from time to time by the Contractor.
- v. **" Contractor"** means the person whose Bid has been accepted by MSEDCL and the legal successors in title to such person, but not (except with the consent of MSEDCL) any assignee of such person.
- vi. **"MSEDCL Representative"** means the person appointed by MSEDCL to act as Representative for the purposes of the Contract and named as specified, or other person appointed from time to time by MSEDCL and notified as such to the Contractor.
- vii. **"Inspecting Authority"** shall mean any Engineering person or personnel authorized by MSEDCL to supervise and inspect.

## f. Tests and Completion

- i. **"Commissioning"** means completion of work & putting the facility/ System in the successful operation. The term "Commissioning" is synonymous with the term "Energization", as commonly used in the Industry.
- ii. **"Final Contract Completion Certificate"** means the certificate issued by MSEDCL Representative upon satisfactory completion of the Guarantee responsibilities.
- iii. **"Taking-Over Certificate"** means a certificate issued by the Engineer when the Works, have been completed in accordance with the Contract.

## g. Contract Agreement

A Contract Agreement shall be provided separately.

## h. Priority of Documents

The documents forming the Contract are to be taken as mutually explanatory of one another. If there is an ambiguity or discrepancy in the documents, MSEDCL shall issue any necessary clarification or instruction to the Contractor, and the priority of the documents shall be as follows:

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

## i. Communications

- i. Wherever provision is made for giving or issue of any notice, instruction, consent, approval, certificate or determination by any person, unless otherwise specified such communication shall be in writing and shall not be unreasonably withheld or delayed.



- ii. Wherever provision is made for a communication to be "written" or "in writing", this means any hand-written, type-written or printed communication
- iii. All certificates, notices or written orders to be given to the Contractor by MSEDCL or MSEDCL Representative, and all notices to be given to MSEDCL or to MSEDCL Representative by the Contractor, shall be sent by air/ mail or one of the agreed systems of electronic transmission. The addresses for the receipt of such communications shall be as stated in the Appendix to Technical Proposal.
- j. Works review coordination meetings between MSEDCL Representative and Contractor shall be conducted on a monthly basis or as and when required by MSEDCL, at locations decided by MSEDCL, to review the Contractor's progress and plans for completing the remaining Works, to deal with matters affecting the progress of the Works, and to decide on responsibility for actions required to be taken. MSEDCL Representative shall prepare the Minutes of Meeting and provide copies for the records of all attendees. Decisions taken and instructions issued during the coordination meetings, as recorded in the Minutes, shall have the same force and effect as if they were written communications
- k. Compliance with Statutes, Regulations and Laws**

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



## 1. Labour laws

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

## 2. Manner of Execution

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

- a) The Contractor should successfully complete the works within time frame set out by MSEDCL. MSEDCL shall not be responsible for any loss or damage of any material when carrying ***Preventive Maintenance of 33/11 kv Substations in Dhule RURAL Division Of Dhule Circle under Jalgaon Zone.***
- b) Undertake necessary activities during the guarantee period as set out in this Contract.

## 3. Standards

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

## 4. Transportation

Where the Contractor is required under the contract to transport the goods to specified locations defined as Works sites, transport to such places including insurance, as shall be specified in the contract, shall be arranged by the Contractor, and the contract price shall include transportation costs.

**5. Payment:**

Payment will be made to the Contractor as per Section III

**6. Sub-contracts:**

Subcontract is not allowed.

**7. Notice to Correct**

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

**8. Termination of works**

- a) MSEDCL may request, by notice, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be suspended, the effective date of the suspension and the reasons therefore. The Contractor shall thereupon suspend performance of such obligation (except those obligations necessary for the care or preservation of the Facilities) until ordered in writing to resume such performance by MSEDCL.

If, by virtue of a suspension order given by MSEDCL, other than by reason of the Contractor's default or breach of the Contract, the Contractor's performance of any of its obligations is suspended for an aggregate period of more than ninety (90) days, then at any time thereafter and provided that at that time such performance is still suspended, the Contractor may give a notice to MSEDCL requiring that MSEDCL shall, within twenty-eight (28) days of receipt of the notice, order the resumption of such performance or request and subsequently order a change in facilities excluding the performance of the suspended obligations from the Contract.

If MSEDCL fails to do so within such period, the Contractor may, by a further notice to MSEDCL, elect to treat the suspension, where it affects a part only of the Facilities, as a deletion of such part or, where it affects the whole of the Facilities, as termination of the Contract

- b) If the Contractor's performance of its obligations is suspended or the rate of progress is reduced pursuant to this Clause, then the Time for Completion shall be extended and any and all additional costs or

expenses incurred by the Contractor as a result of such suspension or reduction shall be paid by MSEDCL to the Contractor in addition to the Contract Price, except in the case of suspension order or reduction in the rate of progress by reason of the Contractor's default or breach of the Contract.

- c) During the period of suspension, the Contractor shall not remove from the Site any Plant and Equipment, any part of the Facilities or any Contractor's Equipment, without the prior written consent of MSEDCL.

### ***9. Termination of Contract for default:***

The successful bidder(s) have to execute the Preventive Maintenance (Routine & Corrective) work as per the Work Order(s) issued by MSEDCL. MSEDCL without prejudice to any other remedy for breach of contract, by written notice of default sent to the Contractor, terminate the contract in whole or part:

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

- (i) If successful bidder(s) do not execute Preventive Maintenance work allotted to them as per the Work Order issued by MSEDCL or his representative.

OR

- (ii) If successful bidder(s) delays in the execution of Preventive Maintenance work allotted to them as per the Work order issued by MSEDCL or his representative AND does not efficiently utilize the power shutdown allotted for maintenance work.

OR

- (iii) If the assets serviced by successful bidder(s) during the execution of Preventive Maintenance work allotted to them as per the Work Order issued by MSEDCL or his representative subsequently fails/ breaks down.

OR

- (iv) If the successful bidder(s) do not follow statutory rules & regulations related to Safety/ Construction & Maintenance practices / Labour Laws as issued by MSEDCL & other statutory authorities eg. CEA/ Electrical Inspectorate, etc.

OR

(v) If the successful bidder(s) deploy less and/or unskilled manpower than specified under this tender document.

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

## **10. Force Majeure**

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

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

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

## **11. Debarring the Agencies from business dealing with MSEDCL**

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

## **Settlement of Disputes**

### a) **Dispute Resolution Committee**

All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the contractor to the Superintending Engineer.

The Three Member Dispute Resolution Committee shall be constituted with one member representing the bidder & the two members of MSEDCL (including one member from Account Department).

The Committee shall (within 120 days) after receipt of the contractor's representation make and notify decisions of all matters referred to by the contractor in writing.

In case the Dispute resolution committee fails to resolve the dispute, the matter shall be resolved by arbitration as stipulated under the arbitration act 1996.

### b) **Notices**

Any notice given by one party to the other pursuant to this contract shall be sent to other party in writing or by cable, telex or facsimile, E-mail and confirmed in writing to the other party's address specified.

A notice shall be effective when delivered or date on the notice, whichever is later.

For the purpose of all notice, the following shall be the address of the MSEDCL.

|  |
|--|
| <p style="text-align: center;">Superintending Engineer<br/>         Maharashtra State Electricity Distribution Co. Ltd.<br/>         Dhule Circle, Jalgaon Zone,<br/>         Dist.- Dhule, Pin-424001,<br/>         Telephone: 02562-247471<br/>         Email: sedhule@gmail.com</p> |
|--|

Contractor: Name & Postal Address, contact nos., fax no. etc. (To be filled in at the time of contract signature)

**c) Arbitration**

In case the Dispute resolution committee fails to resolve the dispute, the matter shall be resolved by arbitration in the manner provided herein below:

The arbitration shall be conducted by three arbitrators, one each to be nominated by the Contractor and MSEDCL and the third to be appointed by both the arbitrators in accordance with the Indian Arbitration Act. If either of the parties fails to appoint its arbitrator within sixty (60) days after receipt of a notice from the other party invoking the Arbitration clause, the arbitrator appointed by the party invoking the arbitration clause shall become the sole arbitrator to conduct the arbitration.

The language of the arbitration proceedings and that of the documents and communications between the parties shall be English. The arbitration shall be conducted in accordance with the provisions of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification thereof.

The decision of the majority of the arbitrators shall be final and binding upon the parties. In the event of any of the aforesaid arbitrators dying, neglecting, resigning or being unable to act for any reason, it will be lawful for the party concerned to nominate another arbitrator in place of the outgoing arbitrator.

During settlement of disputes and arbitration proceedings, both parties shall be obliged to carry out their respective obligations under the Contract.

**d) Disputes**

Any disputes or differences arising under, out of or in connection with this tender or contract if not concluded shall be subject to jurisdiction of courts in respective circle area. The Indian Law shall govern the contract.

MSEDCL and the Contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them.

- i. If, after thirty (30) days, the parties have failed to resolve their dispute by such mutual consultation, then either MSEDCL or the

Contractor may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.

- ii. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced at any time during the validity of rate contract.
- iii. Arbitration proceeding shall be conducted in accordance with the rules of procedure specified.

## **12. Agreement:**

- a) The successful Bidder(s) shall execute an agreement for the fulfilment of the contract on non-judicial stamp paper as per Maharashtra Stamp Act purchase within the state of Maharashtra as per the format provided separately.
- b) The incidental expenses of execution of agreement shall be borne by the successful Bidder(s).

## **13. Contractor Obligations:**

The Contractor is obliged to work closely with MSEDCL staff, act within its own authority and abide by directives issued by MSEDCL and implementation activities.

The Contractor will abide by the job safety measures given on MSEDCL web site(<https://www.mahadiscom.in/consumer/wp-content/uploads/2018/03/SurakshaDeepSurakshaPustika.pdf> ) and will free MSEDCL from all demands or responsibilities arising from accidents or loss of life the cause of which is the Contractor negligence. The Contractor will pay all indemnities arising from such incidents and will not hold MSEDCL responsible or obligated.

The Contractor is responsible for managing the activities of its personnel and will hold itself responsible for any misbehaviour.

The Contractor will treat as confidential all data and information about MSEDCL, obtained in the execution of his responsibilities, in strict confidence and will not reveal such information to any other party without the prior written approval of MSEDCL.



MSEDCL, in no case will be responsible for any accident fatal or non-fatal, caused to any workman or outsider in course of transport or execution of work. All the expenditure including treatment or compensation will be entirely borne by the Contractor. The Contractor shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations.

The Contractor should provide its employees photo identity cards to be properly displayed during duty hours. No extra payments shall be claimed by the contractor or its deployed staff for such item.

The Contractor should carry out ***Preventive Maintenance of 33/11 kv Substations under Dhule RURAL Division Of Dhule Circle under Jalgaon Zone*** strictly in accordance with the Terms & Conditions of the contract and without any defects.

- a. The work relating to maintenance schedule should be executed without any delay as per the implementation schedule mentioned in this document.
- b. MSEDCL reserve the right to depute engineer officers from his/ her office for the supervision and inspection at the time of implementation of the contract. The bidder should submit report to the concerned engineer officer regarding the implementation of the contract.
- c. If any defect is noticed within guarantee period of 1 year after supply, same will have to be replaced by the Contractor at his own expenses.
- d. The contractor shall not be responsible for the failed equipment's which are already in guarantee period. However if the earlier contractor whose equipment under guarantee period is not ready/unable to carry out the work then in such cases the failed equipment will be attended by the contractor. The incurred expenditure will be recovered from the previous contractor.
- e. The successful bidder should indicate the name and address of their nearest centre that can take up immediate action on complaint.

#### **14. Implementation schedule and process :**

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

- (i) The work as per schedule of ***Preventive Maintenance of 33/11 kv Substations under Dhule RURAL Division Of Dhule Circle under Jalgaon Zone*** shall be carried out by Agency and will enter on MSEDCL web portal



with photographs of works attended. The Contractor shall carry out the Preventive maintenance immediately from the intimation / by message / mail. The Contractor shall complete the work as per the schedule of works and within the outage period.

- (ii) MSEDCL will approve the works attended by agency after due verification & same will be intimated through system for further payment.
- (iii) If Contractor fails to perform the activities within time period from intimation, the Notice to Correct Work shall be issued.
- (iv) In spite of notice to correct works, if Contractor fails to perform/ improve the progress of the activities, the notice of termination of the contract shall be issued.
- (v) In case Contractor fails to perform the activities even after repeated messages / calls (3 times) from the issue of the Termination of Contract Notice, the contract/ work shall be terminated and action as per debar policy of MSEDCL will be initiated.
- (vi) The Contractor should take photographs of works carried out along with the contractor representative & MSEDCL local representative and same is to be uploaded in the system.

## 15. Payment and Penalty

### (i) The Contract Price:

- a) Unless specified otherwise in the MSEDCL Requirements, Bidders shall quote for the entire facilities on a “**single point responsibility**” basis such that the total bid price covers all the Contractor's obligations mentioned in or to be reasonably inferred from the Bid documents in respect of carrying out ***Preventive Maintenance of 33/11 kv Substations under Dhule RURAL Division Of Dhule Circle under Jalgaon Zone*** along with provision of data transfer directly to MSEDCL Portal as described in the Bid document on “**Partial Turnkey**” Contract Basis.
- b) The Bidders shall mention the details of GST with Government Notification in Price Schedule. Bidder shall note that the actual applicable taxes shall be paid to Contractor.
- c) Such Bidder that has quoted the lowest price (exclusive of all the taxes) against the individual capacity shall be declared as the L-1 Bidder .

- d) The Bidder shall quote rates clearly and no alterations or additions shall be made to the Price schedule.
  - e) The rates and prices quoted by the bidder shall remain fixed for the respective year and valid for the duration of the contract and would not be subject to variation on Payment terms.
- (ii) **Payment procedure:**
- a) The payment will be disbursed through Monthly Running Account (RA) bill wise as specified under:

- 1) **100%** of the order value for labour component against material supplied by MSEDCL for carrying out ***Preventive Maintenance of 33/11 kv Substations by circle office*** as per the rates applicable in the yearly rate contract, along with taxes, within 15 days of submission of necessary documents as per check list in duplicate.

**AND**

**90%** of the order value for Supply, Erection, Testing & Commissioning of Line / Cable materials/Substation equipments, within 15 working days, upon submission of necessary documents as per check list in duplicate, after the on-site verification, inspection, by Concerned Sectional Officer/ any authority representative of MSEDCL and/ or its authorized inspection agencies, for which the claim is received.

The details of all the maintenance works carried out should be fed through mobile-app/ IT system developed by MSEDCL.

- 2) The balance 10% of payment against supply, installation and commissioning of Line / Cable materials excluding Taxes shall be released on completion of guarantee period.

(iii) **Taxation**

- a) The price bid by the Contractor shall except GST, includes all customs duties, import duties, business taxes, income tax, and any other taxes, duties or levies that may be levied in accordance to the laws and regulations in being as of the date 28 days prior to the closing date for submission of bids in India on the Contractor's Equipment, Plant, materials and supplies (permanent, temporary and consumable) acquired for the purpose of the Contract and on the services performed under the Contract. Nothing in the Contract shall relieve the Contractor

from its responsibility to pay any tax that may be levied in India on profits made by it in respect of the Contract.

The Bidders shall mention the details of GST with Government Notification in Price Schedule. Bidder shall note that the actual applicable taxes shall be paid to Contractor.

- b)** The bidder should also note that MSEDCL will discharge its tax liability under the most beneficial scheme for availing the maximum cost advantage. Bidder should therefore take GST/any tax refund / rebate to which they may be legally entitled into consideration while offering their quoted rates/ prices.

**(iv) Penalty for Delay:**

- a) The Contractor is required to complete the work within the stipulated time (i.e. shutdown) as given by the concern in-charge. In case the work is not completed within time then the penalty @ Rs.1000/- per hour for every additional hour required for completion work taken shall be charged.
- b) If the contractor fails to provide necessary Spares and Consumables, Tools & Plants and is found working in violation of Safety and other statutory Regulations, penalty of Rs 1,000/- (Rupees One thousand only) per such instance shall be levied.
- c) The Penalty for the delay applicable to activities will not be attributed to the contractor subject to the condition specified in the Section-III, GCC. "Force Majeure" and the mutually agreed genuine causes brought on the records thereof by the contractor.
- d) The delay attributable to MSEDCL will not attract any penalty.

**(v) Penalty for non-executed work:**

In case the contractor does not execute allotted work as per the hours specified in penalty clause No. 4 and read with clause No.9 then contract will be cancelled and PBG will be forfeited. MSEDCL will reserve the right to execute the work from the contractor at the RISK & COST of the defaulter contractor.

## SECTION - IV

### FORM AND APPENDIX OF TECHNICAL AND PRICE PROPOSAL

#### Form of Technical Proposal

(On Bidder's Letterhead)

To,

**Maharashtra State Electricity Distribution Company Ltd.**

*Represented by the:*

Superintending Engineer,

Maharashtra State Electricity Distribution Co. Ltd.,

Dhule Circle, Dist. Dhule, Pin 424001

**Name of Contract: *Preventive Maintenance of Substations in Dhule Rural Division Of Dhule Circle under Jalgaon Zone .***

Sir,

We have understood and checked these documents and have not found any errors in them. We accordingly offer to attend ***Preventive Maintenance of 33/11 kv Substations under Dhule RURAL Division Of Dhule Circle under Jalgaon Zone*** with guarantee period of 1 Year, (hereinafter referred to as the contract of works) and as described in the Bid document "Partial Turnkey Contracts" as well as remedy any defects and guarantee the entire completed facilities against any defects in materials, workmanship and equipment for period specified in Bid Documents, after completion, fit for its purpose in conformity with these documents and the enclosed Proposal.

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

We have submitted price bids for Tender No.SE/DHLC/T-08/2023-24. We have submitted complete details of our technical and financial capabilities for establishing our eligibility to undertake works on all these tenders. However we hereby confirm that we accept that the MSEDCL decision on our eligibility to undertake the works in accordance with the requirements set out in the Invitation for Bids will be final and binding on us, and that we will not raise any objection should MSEDCL decide to reject our Bid for one or more Tenders on the grounds that we do not satisfactorily meet the minimum qualifying criteria.

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

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

We accept that Dispute Resolution procedures, General Conditions of Contract, will be used for settling any disputes that cannot be mutually agreed with MSEDCL, and confirm that we specifically agree that Arbitration proceedings will be applicable for resolving any disputes.

Yours faithfully,

Signature & Seal of company,

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

Address:

.....:

:

**CHECK LIST OF DOCUMENTS TO BE ENCLOSED**

| Sr. No. | Name of Documents Attached  | Remark |    |
|---------|---|--------|----|
|         |   | Yes    | No |
| 1.      | Bidder's Information Sheet Appendix-I(A)  | Yes    | No |
| 2.      | Firm's Profile at a Glance Appendix-I(B)  | Yes    | No |
| 3.      | Financial Status Appendix-I(C)  | Yes    | No |
| 4.      | Annual Turnover Appendix-I(D)   | Yes    | No |
| 5.      | Self-Certification of No Bar/ non-failure/ blacklisted                          | Yes    | No |
| 6.      | Scan copy of Form of EMD/Bid Security Appendix-II                               | Yes    | No |
| 7.      | Installation and performance credentials Appendix-III                           | Yes    | No |
| 8.      | Experience for maintenance, supply and commissioning Appendix-IV                | Yes    | No |
| 9.      | Power of attorney in the name of the person authorized to sign Bid document     | Yes    | No |
| 10.     | Receipt of Payment made by the bidder against the Bid Fees                      | Yes    | No |
| 11.     | Tender Document signed by bidder on each page along with Price Schedule Format. | Yes    | No |
| 12.     | Form of Technical Proposal  | Yes    | No |

Bidder's Signature:  
(Seal)

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

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

To,

**Maharashtra State Electricity Distribution Company Ltd.**

*Represented by the:*

Superintending Engineer,

Maharashtra State Electricity Distribution Co. Ltd.,

Dhule Circle, Dist. Dhule, Pin 424001

Name of Contract: **Preventive Maintenance of 33/11 kv Substations under Dhule RURAL Division Of Dhule Circle under Jalgaon Zone.**

Sir,

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

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

If our Bid is accepted, we will provide the specified Security Deposit, commence the Works as soon as reasonably possible after receiving the Notice to Commence, and complete the Works in accordance with the above-named document within the time.

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

Yours faithfully

Signature

Seal in the capacity duly authorized

to sign bids for and on behalf of

### **APPENDIX TO PRICE PROPOSAL**

|   |   |
|---|---|
| Description                                   | Tender No.  |
| Employer's Name and Address                   | Maharashtra State Electricity Distribution Co. Ltd.<br>Represented by the:<br>Superintending Engineer,<br>Maharashtra State Electricity Distribution Co. Ltd. |
| Contractor's Name and Address                 | (To be completed by the Bidder before the Bid is submitted)   |
| Name and Address of the MSEDCL Representative | Superintending Engineer (O&M) of Concerned Circle.  |

### **CHECK LIST OF DOCUMENTS TO BE ENCLOSED**

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

Signature of Bidder:

.....:



## APPENDIX- I (A)

### BIDDER'S INFORMATION SHEET

To establish its qualifications to perform the contract the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

|   |  |
|---|--|
| Bidder's legal name   |  |
| Bidder's UIN No.  |  |
| Bidder's registration certificates for GST and registration certificates under the applicable PF and labour laws. |  |
| Bidder's authorized representative<br>(Name, address, telephone numbers, fax numbers, e-mail address)             |  |
| Attached are copies of the necessary original documents.<br>1<br>2<br>3<br>4<br>5<br>6                            |  |

Signature of Bidder

Name

Designation

Date:

## APPENDIX- I (B)

### FIRM PROFILE AT A GLANCE

| Sr. No. | Particulars                                    | Details |
|---------|--|---------|
| 1       | Name & Mailing Address of firm                 |         |
| 2       | Contact Person Name, Designation & Contact No. |         |
| 3       | E-mail Address for correspondence              |         |
| 4       | Firm Website Address                           |         |
| 5       | Firm Status (Private/ Proprietor)              |         |
| 6       | PAN/ TAN No.                                   |         |
| 7       | Firm Registration No                           |         |
| 8       | EPF Registration No, if applicable             |         |
| 9       | GST No.  |         |
| 10      | Turnover 2020-21,2021-22, 2022-23 (in Crs Rs.) |         |
| 11      | Net worth                                      |         |
| 12      | Special Remarks, if any                        |         |

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

Signature of Bidder

Name

Designation

Date:

## APPENDIX- I (C)

### FINANCIAL STATUS

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

| Sr.<br>No. | Particulars  | Financial Data for Previous 3<br>Years [Rs. in Lacs] |         |         |
|------------|--|--|---------|---------|
|            |  | 2020-21  | 2021-22 | 2022-23 |
| 1          | Total Assets   |  |         |         |
| 2          | Current Assets   |  |         |         |
| 3          | Total Liabilities  |  |         |         |
| 4          | Long Term Loans  |  |         |         |
| 5          | Current Liabilities  |  |         |         |
| 6          | Profits Before Taxes   |  |         |         |
| 7          | Profits After Taxes  |  |         |         |
| 8          | Net Worth  |  |         |         |
| 9          | Available Working Capital  |  |         |         |
|            | Attached are copies of the audited balance sheets, including all related notes, and income statements for the any three years of FY 2020-21,2021-22, 2022-23, If the bidder feels that its financial capacity is insufficient, bidder may include with the bid a letter from a reputed bank, addressed to MSEDCL which describes the revolving line of credit that the bidder is eligible for with the bank. |  |         |         |

Applicant's Auditor

## APPENDIX- I (D) ANNUAL TURNOVER

| Year    | Rs in Lacs. |
|---------|-------------|
| 2020-21 |             |
| 2021-22 |             |
| 2022-23 |             |

The information supplied should be the Annual Turnover of the Bidder in terms of the amounts billed to clients for each year for work in progress or completed.

Signature of Applicant

Certified by Applicant's Auditor

(Affix Stamp)

**(Not applicable)**

**APPENDIX- II**  
**FORM OF EARNEST MONEY DEPOSIT/ BID SECURITY**  
**(BANK GUARANTEE)**

WHEREAS, \_\_\_\_\_ [Name of Bidder] (hereinafter called "the Bidder") has submitted his bid dated \_\_\_\_\_, for **Preventive Maintenance of 33/11 kv Substations under Dhule RURAL Division Of Dhule Circle under Jalgaon Zone** with guarantee period of 1 Year for materials from the date of commissioning and as described in the Bidding Data in MSEDCL under "Partial Turnkey Contracts" basis under bid package number Bid No: \_\_\_\_\_ (hereinafter called "the Bid") for works of **Preventive Maintenance of Substations in Dhule RURAL Division Of Dhule Circle under Jalgaon Zone**.

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

The conditions of this obligation are:

- 1) If the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid; or
- 2) If the Bidder refuses to accept the correction of errors in his Bid; or
- 3) If the Bidder is determined at any time prior to award of contract to have engaged in corrupt or fraudulent practices in competing for the contract; or
- 4) If the Bidder, having been notified of the acceptance of his Bid by MSEDCL during the period of Bid validity:
  - a. fails or refuses to execute the Form of Contract Agreement in accordance with the Instructions to Bidders, if required; or
  - b. fails or refuses to furnish the Security deposit, in accordance with the Instructions to Bidders;

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

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

Date

Signature of Bank's authorized officer

Seal

Signature of Bank's Second authorized officer

Seal

### APPENDIX- III

### INSTALLATION & PERFORMANCE CREDENTIALS

| Experience |                |                     |                           |                       |                            |                        |   |
|------------|----------------|---------------------|---------------------------|-----------------------|----------------------------|------------------------|---|
| Sr. No.    | Name of Client | Description of work | Contract Amount (in lac.) | Date of start of work | Date of completion of work | Present Status of work | Client's certificate attached at page No. |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |
|            |                |                     |                           |                       |                            |                        |   |

Signature of Bidder

Name

Designation

Company

Date

## APPENDIX- IV

### EXPERIENCE

| Sr.<br>No. | Nature of Work | Supply | Year wise receipts/<br>expenditure on work |             |             | Client's<br>certificate<br>attached at<br>page No. ... |
|------------|----------------|--------|--|-------------|-------------|--|
|            |                | Nos    | 2020-<br>21                                | 2021-<br>22 | 2022-<br>23 |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |
|            |                |        |  |             |             |  |

Signature of Bidder

Name

Designation

Company

Date



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

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

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

| <b>Sr.No.</b> | <b>Name of Tools and Plants</b>  | <b>No.(s)</b> |
|---------------|--|---------------|
| 1             | Insulation Tester. (Megger) ( 500-5000 V)  | 01            |
| 2             | Earth Insulation Tester with suitable probes.  | 01            |
| 3             | Multi-meter (digital)  | 01            |
| 4             | Portable AC current injection set - Low voltage (0 to 40V, 0-100 amp)                                | 01            |
| 5             | Set of flexible wires of suitable current rating and connector clips                                 | 01            |
| 6             | Clamp On meter (Tong Tester)   | 01            |
| 7             | Oil BDV Tester set   | 01            |
| 8             | Screw Driver set- 6"-12", Transparent Insulated Green Head, Non sparking type with insulated blades. | 02            |
| 9             | Hammer- Cross/Ball Pin with wooden handle, 200gm/500gm/800gm   | 03            |
| 10            | Pliers- Combination pliers 150/160/170mm   | 03            |
| 11            | Nose Pliers  | 02            |
| 12            | Hacksaw  | 02            |
| 13            | spanner set  | 02            |
| 14            | Ratchet Set  | 01            |
| 15            | Chain Pulleys  | 01            |
| 16            | Fibre Ladders of suitable sizes  | 01            |
| 17            | Crimping Tools   | 01            |
| 18            | Air Blower   | 01            |
| 19            | Vacuum Cleaner   | 01            |
| 20            | Tap kit with handles   | 01            |
| 21            | Vehicle for transportation-LMV   | 01            |

**LIST OF MAJOR MATERIAL****ANNEXURE-C**

**(To be provided by MSEDCL. If not provided by MSEDCL, contractor to procure and use. The cost of such material procured by Contractor shall be reimbursed as per prevailing cost data of MSEDCL along with price variation(PV))**

| Sr No | Description of Material   |
|-------|---|
| 1     | 33 kV C. T. (400-200/1-1-1)   |
| 2     | C.T.-33KV200-100/1-1-1A/3Core   |
| 3     | CT 200-100/1-1 A , 33 KV  |
| 4     | 22 KV C.T. Three core.  |
| 5     | CT 200-100/1-1 A , 22 KV  |
| 6     | 11 KV CT 600 - 300 / 5 - 5 Outdoor  |
| 7     | 11 KV CT 600 - 300 / 5 - 5 Indoor   |
| 8     | CT - 11 KV 400 - 200 - 100/ 5-5-5 A / 3 Core I/D                                      |
| 9     | 11 KV CT 400 - 200 / 5 - 5 Outdoor  |
| 10    | 11 KV CT 400 - 200 / 5 - 5 Indoor   |
| 11    | CT 200 -100 / 5 - 5 Amp11 KV 1 Ph. Oil filled Out Door Type with Terminal connections |
| 12    | 100/1-1 A, 11 KV CT   |
| 13    | 33 KV P.T.  |
| 14    | 22 KV P.T.  |
| 15    | 11 KV PT  |
| 16    | 22 kV, Single phase, outdoor NCT  |
| 17    | 11 KV Neutral CT Outdoor type with Relay  |
| 18    | 11 kV, Single phase, outdoor NCT  |
| 19    | 11 KV R.V.T.  |
| 20    | 11 KV 3 Phase, Residual voltage Transformer with terminal connectors.                 |
| 21    | Armoured Copper control cable 19C X 2.5 Sq mm   |
| 22    | Armoured Copper control cable 12C X 2.5 Sq mm   |
| 23    | Armoured Copper control cable 7Cx2.5 sq.mm.   |
| 24    | Armoured Copper control cable 4C X 2.5 Sq mm  |
| 25    | Armoured Copper control cable 2Cx2.5 sq.mm.   |
| 26    | Armoured Copper control cable 2Cx4 sq.mm.   |
| 27    | 33 kV 1000 MVA 1600 Amp.IN Door Type VCB  |
| 28    | 22 kV 1000 MVA 1600 Amp.IN Door Type VCB  |
| 29    | 33 KV VCB complete 1600 Amp (O.D.)  |
| 30    | 22 KV VCB complete 1600 Amp (O.D.)  |
| 31    | 22 KV VCB complete 800 Amp (O.D.)   |
| 32    | 11 KV VCB 400 A Indoor  |

|    |  |
|----|--|
| 33 | 11 KV VCB 400 A Outdoor  |
| 34 | 11 KV VCB 800 A Indoor   |
| 35 | 11 KV VCB 800 A Outdoor  |
| 36 | 11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.                                      |
| 37 | 11kV I D switchgear (2 I/c+1 B/c+80/G)   |
| 38 | 11 KV 250 MVA OD switchgear comprising of 2 incomer & 4 single feeders with associated OD panels , Isolators CT & PT etc   |
| 39 | 11 KV 250 MVA OD Single Feeder with Panel , Isolator CT etc  |
| 40 | 11 KV 250 MVA O.D. Switch gear with one I/C+ one O/G   |
| 41 | 11 KV 250 MVA O.D. Switch gear with one I/C+ three O/G   |
| 42 | 22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.                                      |
| 43 | 11kV 250 MVA OD switchgear comprising of one incomer and 3 single feeders with associated outdoor panels   |
| 44 | 11 KV 250 MVA OD switchgear comprising of one incomer ,3 O/G & 1 B/C with associated OD panels, Isolators, CT & PT etc.  |
| 45 | 11 KV 500 MVA ID switchgear comprising of one incomer ,3 O/G & 1 B/C with associated OD panels, Isolators, CT & PT etc.  |
| 46 | 11 KV OD type VCB with directional relay with Bus coupler complete   |
| 47 | 11 KV VCB With C.T.; P.T& Panel Indoor   |
| 48 | 11KV HT O.S.F.   |
| 49 | 11kV I D switchgear (1 I/c+1 B/c+40/G)   |
| 50 | 11 KV 250 MVA Indoor Switch Gears comprising of 2 Incomer and 6 Single feeder & Bus Coupler with associated C.R Panels, V.C.B. for Incoming & Bus Coupler for Feeder |
| 51 | Automatic capacitor switch 11 KV   |
| 52 | C&R panel for 33 KV for feeder breaker   |
| 53 | C&R panel for 33 KV Transformer with 1 Amp. Relay  |
| 54 | 33 KV Transformer CR Panel With 1 Amp relay  |
| 55 | C&R panel for 33 KV Transformer with Diff. Protection  |
| 56 | 33 KV Transformer CR Panel With Differential   |
| 57 | CR Panel for 33/22 KV line breaker with 1/5A relay   |
| 58 | C&R panel for 22 KV feeder breaker   |
| 59 | C&R panel for 22 KV Transformer with 1 A relay   |
| 60 | 22 KV Transformer CR Panel With 1 Amp relay  |
| 61 | C&R panel for 22 KV Transformer with Diff. Protection  |
| 62 | Control C&R Panel 22 KV for feeder with accessories.   |
| 63 | Replacement of Control Panel 22 KV   |
| 64 | CR Panel for 11 KV Capacitor bank with relay   |
| 65 | C&R Panel for 11 kV Outgoing Feeder OD   |
| 66 | Control Panel complete with NDR,UV,OV & 2 O/C + 1 E/F and Time delay relay and accessories.  |

|    |  |
|----|--|
| 67 | 11 KV Annunciator Panel  |
| 68 | 30 Volt Non directional type Electronic Static relay (Numeric Relay) |
| 69 | Clamps for 33 KV C.T.  |
| 70 | Clamps for 33 KV Isolator  |
| 71 | Clamps for 33 KV P.T.  |
| 72 | Clamps for 33 KV V.C.B.  |
| 73 | Clamp for 22 KV VCB  |
| 74 | Clamps for 22 KV C.T.  |
| 75 | Clamps for 22 KV Isolator  |
| 76 | Clamps for 22 KV P.T.  |
| 77 | Clamps for 11 KV C.T.  |
| 78 | Clamps for 11 KV Isolator  |
| 79 | Clamps for 11 KV P.T.  |
| 80 | Clamps for 11 KV V.C.B.  |
| 81 | Clamp for PT   |
| 82 | Clamp for CT   |
| 83 | 30 V, 100 AH Lead Acid Battery sets                                  |
| 84 | Battery chargers suitable for above                                  |
| 85 | Battery set 30 Volt, 100 AH with Battery charger                     |
| 86 | Disc Insulator   |
| 87 | Pin Insulators   |
| 88 | Isolators  |

**LIST OF MINOR AND CONSUMABLE MATERIAL****ANNEXURE-D**

| <b>Sr. No.</b> | <b>Particular</b>                |
|----------------|----------------------------------|
| 1              | CRC (Electrical contact cleaner) |
| 2              | M-Seal                           |
| 3              | PVC Tape                         |
| 4              | Cotton waste                     |
| 5              | Cloths                           |
| 6              | Nut Bolt of various sizes        |
| 7              | Grease / jelly                   |
| 8              | Silica Gel                       |
| 9              | Flexible cables / control cables |
| 10             | Cement                           |
| 11             | Paints                           |
| 12             | Hand wire brush                  |
| 13             | Spray Bottles                    |
| 14             | G.I. wire                        |
| 15             | Clamps                           |
| 16             | HT tape                          |
| 17             | Sand                             |
| 18             | Lugs of various sizes            |
| 19             | Ferrules of various sizes        |
| 20             | Anti tracking spray              |

**CHECK LIST FOR PREVENTIVE MAINTENANCE OF POWER TRANSFORMER**

Name of the Substation :

Code of Substation:

Name of the Division

Date of inspection

Make &amp; Sr.No of power transformer:

Date of commissioning power transformer

Year of Mfg:

| Sr No | Item to be Inspected     | Brief Description of Work                     | How it can be done   | Present status         | Corrective Action taken for minor works | Further action required for major works |
|-------|--------------------------|---|--|------------------------|---|---|
| 1     | Oil Level in Transformer | Check Oil level gauge.                        | By taking reading of magnetic oil level indicator which indicates the actual level of transformer insulating oil in conservator tank | Oil level low/adequate |   |   |
|       |                          | Check and repair leaks.                       | Seal an active leak by M-seal. A leaking gasket surface can also be repaired in place, without draining the oil from the tank. ...   |                        |   |   |
| 2     | Dehydrating Breather     | Check Air passages and colour of silica jel   | Colour of good silica jel is blue.If found pink then replace the same or dry it by heating and reuse.                                | Blue/Pink              |   |   |
| 3     | Bushings                 | Examine for cracks, dirt & deposits. & Clean. | Check for dirt and deposits and clean using dry Cloths/ cotton waste.  |                        |   |   |

|   |                  |   |   |          |  |  |
|---|------------------|---|---|----------|--|--|
| 4 | Cable boxes      | Checking of condition of hinges of doors/condition of cable box, locking arrangement, cleaning of cable box | visual inspection and cleaning by air blower  |          |  |  |
| 5 | Earth resistance | Check for Earth resistance.   | To be measured by earth tester. The value of earth resistance should be less than 5 Ohm | Low/high |  |  |

The agency carrying out maintenance should take the photo graphs before and after maintenance and upload the photograph and Checklist in ERP system

Signature of Agency

Signature of substation In charge



## CHECK LIST FOR PREVENTIVE MAINTENANCE OF BATTERY BANK & BATTERY CHARGER

Name of the  
Substation :  
Name of the  
Division  
Date of inspection

Code of  
Substation:

Make & Sr.No :  
Year of Mfg:

Date of  
commissioning :

| Sr No | Item to be Inspected         | Brief Description of Work  | How it can be done                               | Present status                  | Corrective Action taken for minor works | Further action required for major works |
|-------|------------------------------|--|--|---------------------------------|---|---|
| 1     | Battery room and ventilation | See that battery room entrance door are kept closed and that ventilation to outside air are open and air is circulated by running of the exhaust fan | Visual and physical Inspection                   | Exhaust fan working/non working |   |   |
| 2     | Operation                    | Check charging rate. Check and record pilot cell specific gravity, temperature and floating voltage.   | Ammeter reading of float charging to be taken    |                                 |   |   |
| 3     |                              | Checking specific gravity and voltage of each cell of lead acid cells. (before and after charging) (Weekly when trickle charge exists)               | Measurement of specific gravity using Hydrometer | Sp gravity 1200 to 1210         |   |   |
| 4     | Leakage test                 | Check extra leakage.(Check earth leakage current indicator on the battery charger panel)   | measure the value of earth leakage in Mili       | Leakage observed/not observed.  |   |   |

|   |                                     |  |   |                     |  |  |
|---|-------------------------------------|--|---|---------------------|--|--|
|   |                                     |  | Amp on the ammeter fixed on the battery charger panel                           |                     |  |  |
| 5 | Electrolyte                         | Check electrolyte level and add distilled water when required. Cleaning of terminals, applying Vaseline and topping up with distilled water. (for lead acid batteries) | Visual and physical Inspection  |                     |  |  |
| 6 | Inter cell connectors and terminals | Clean acid corrosion from connectors and terminals should be lead coated. Tighten terminals and apply petroleum jelly for exposed surface.                             | Cleaning by CRC and then applying petroleum jelly to all contact of each cells. |                     |  |  |
| 7 | Hydrometer and thermometer          | Check condition of hydrometer and thermometer used for daily and monthly reading against spare units held in reserve.  | Visual and physical Inspection  | Condition ok/not ok |  |  |

The agency carrying out maintenance should take the photographs before and after maintenance and upload the photograph and Checklist in ERP system

Signature of Agency

Signature of substation In charge

**CHECK LIST FOR PREVENTIVE MAINTENANCE OF POTENTIAL TRANSFORMER**

Name of the Substation :

Code of Substation:

Name of the Division

Date of inspection

Make &amp; Sr.no :

Date of commissioning :

Year of Mfg:

| Sr No | Item to be Inspected  | Brief Description of Work  | How it can be done  | Present status | Corrective Action taken for minor works | Further action required for major works |
|-------|-----------------------|--|---|----------------|---|---|
| 1     | Potential Transformer | Visual damages & Deterioration , if any                                      | Visual and physical Inspection  |                |   |   |
| 2     |                       | Check any abnormal sound   | By using ultrasonic detector  |                |   |   |
| 3     |                       | Attending Oil Leakage if any   | Visual and physical Inspection  |                |   |   |
| 4     |                       | Checking of Oil level of PT  | Visual and physical Inspection  |                |   |   |
| 5     |                       | Cleaning of PT Junction Box and tightening of connections in PT junction box | Visual and physical Inspection  |                |   |   |
| 6     |                       | Earthing PT/Frame/Junction Box   | To be measured by earth tester. The value of earth resistance should be less than 5 Ohm | Low/high       |   |   |
| 7     |                       | Vermin proofing of PT junction Box/ Sec Terminal.                            | Visual and physical Inspection  |                |   |   |
| 8     |                       | IR Value of Primary to Earth   | Meggering by 1 KV Megger  |                |   |   |

|    |  |   |                               |  |  |  |
|----|--|---|-------------------------------|--|--|--|
| 9  |  | IR Value of Secondary to Earth            | Meggering by 500V Megger      |  |  |  |
| 11 |  | Correct rating of PT fuse up to C&R Panel | checking as per specification |  |  |  |
| 12 |  | IR Value of Primary to Secondary          | Meggering by 500V Megger      |  |  |  |

The agency carrying out maintenance should take the photo graphs before and after maintenance and upload the photograph and Checklist in ERP system

Signature of Agency

Signature of substation In charge

**CHECK LIST FOR PREVENTIVE MAINTENANCE OF CURRENT TRANSFORMER (CT)**

Name of the Substation :

Code of Substation:

Name of the Division

Date of inspection

Make &amp; Sr.no :

Date of commissioning :

Year of Mfg:

| Sr No | Item to be Inspected | Brief Description of Work  | How it can be done  | Present status | Corrective Action taken for minor works | Further action required for major works |
|-------|----------------------|--|---|----------------|---|---|
| 1     | Current Transformer  | Visual damages & Deterioration, if any                                       | Visual and physical Inspection  |                |   |   |
| 2     |                      | Attending Oil leakage if any   | Providing M-seal  |                |   |   |
| 3     |                      | Checking of Oil level in CT  | Visual and physical Inspection  |                |   |   |
| 4     |                      | Check condition of the structure   | Visual and physical Inspection  |                |   |   |
| 5     |                      | All cables entry into CT is through cable glands                             | Visual and physical Inspection  |                |   |   |
| 6     |                      | Check any abnormal sound near CT   | For this secondary side connection are checked. CT secondary should not be open |                |   |   |
| 7     |                      | Visual inspection of CT Bushing  | Visual and physical Inspection  |                |   |   |
| 8     |                      | Inspection of secondary Terminals and earthing of star point of CT secondary | Visual and physical Inspection  |                |   |   |

|    |                     |  |                                |  |  |  |
|----|---------------------|--|--------------------------------|--|--|--|
| 9  | Current Transformer | Cleaning of CT Junction Box and tightening of connections in CT junction box | Visual and physical Inspection |  |  |  |
| 11 |                     | Vermin proofing of CT junction Box/ Sec Terminal.                            | Visual and physical Inspection |  |  |  |
| 12 |                     | IR Value of Primary to Earth   | Meggering by 1 KV Megger       |  |  |  |
| 13 |                     | IR Value of Secondary to Earth   | Meggering by 500V Megger       |  |  |  |
| 14 |                     | IR Value of Primary to Secondary   | Meggering by 1 KV Megger       |  |  |  |

The agency carrying out maintenance should take the photo graphs before and after maintenance and upload the photograph and Checklist in ERP system

Signature of Agency

Signature of substation In charge

**CHECK LIST FOR PREVENTIVE MAINTENANCE OF CONTROL PANEL**

Name of the Substation :

Code of Substation:

Name of the Division

Date of inspection

Make &amp; Sr.no :

Date of commissioning :

Year of Mfg:

| Sr No | Brief Description of Work                             | How it can be done  | Present status             | Corrective Action taken for minor works | Further action required for major works |
|-------|---|---|----------------------------|---|---|
| 1     | Check all indication lamps for working                | Visual and physical Inspection  | working/nonworking         |   |   |
| 2     | Vermin proofing of panel and door interlock switch    | By applying Vermin (colloquially varmint or varmint) pests                              | status Yes/No              |   |   |
| 3     | Check & ensure that L/R switch is at remote position. | Visual and physical Inspection  |                            |   |   |
| 4     | Check rating of fuses                                 | as per specification on schematic drawing   | Ok Yes/No                  |   |   |
| 5     | Checking of Control Connections as per scheme drawing | Visual and physical Inspection  | Ok Yes/No                  |   |   |
| 6     | Checking of Earthing Connection wherever provided     | To be measured by earth tester. The value of earth resistance should be less than 5 Ohm | Low/high                   |   |   |
| 7     | Check cubicle heater thermostat for correct operation | Visual and physical Inspection  | Heater working/non working |   |   |

|   |   |                                |  |  |  |
|---|---|--------------------------------|--|--|--|
| 8 | Check & ensure that all multi core cables are earthed at switchyard side only | Visual and physical Inspection |  |  |  |
|---|---|--------------------------------|--|--|--|

The agency carrying out maintenance should take the photo graphs before and after maintenance and upload the photograph and Checklist in ERP system

Signature of Agency

Signature of substation In charge



## CHECK LIST FOR PREVENTIVE MAINTENANCE OF LINE ISOLATORS & EARTH SWITCHES

Name of the Substation :

Code of Substation:

Name of the Division

Date of inspection

Date of

commissioning :

Make &amp; Sr.no :

Year of Mfg:

| Sr No | Item to be Inspected         | Brief Description of Work   | How it can be done             | Present status | Corrective Action taken for minor works | Further action required for major works |
|-------|------------------------------|---|--------------------------------|----------------|---|---|
| 1     | Insulators                   | Check for cracked or broken porcelain and excessive dirt film and to undertake repair of chipped spots by painting with lacquer such as red clay paint. | Visual and physical Inspection | Ok<br>Yes/No   |   |   |
| 2     | Blades and contacts          | Check that blades are properly seated in the contacts.  | Visual and physical Inspection | Ok<br>Yes/No   |   |   |
| 3     | Blades and latches and stops | Check that blade latches where provided are engaged   | Visual and physical Inspection | Ok<br>Yes/No   |   |   |
| 4     | Locks and inter locks        | Check that switches are properly locked in the open or closed position as required by padlocks or other key type locks or interlocks.                   | Visual and physical Inspection | Ok<br>Yes/No   |   |   |
|       | Bolts, Nuts & Jumpers        | Check bolts, nuts and jumpers for tightness. Apply petroleum jelly on male and female contacts.   | Visual and physical Inspection | Ok<br>Yes/No   |   |   |

|   |                                  |  |                                |                        |  |  |
|---|----------------------------------|--|--------------------------------|------------------------|--|--|
| 6 | I.R., value and earth resistance | Check IR, value with 2.5 kV megger and earth resistance. Check that double earthing is provided.   | Meggering and earth tester     | within limit<br>Yes/No |  |  |
| 7 | Auxiliary & limit switches       | Check conditions of contacts and refinish with fine file if burnt or corroded. Check contact spring operating rod and lever. Check closing and opening position with respect to main switch contacts or travel or motor mechanism. | Visual and physical Inspection | Ok<br>Yes/No           |  |  |
| 8 | Manual operating Rod             | To check for proper engagement of emergency operating handle and further its operation is smooth and satisfactory.   | Visual and physical Inspection | Ok<br>Yes/No           |  |  |

The agency carrying out maintenance should take the photo graphs before and after maintenance and upload the photograph and Checklist in ERP system.

Signature of Agency

Signature of substation In charge

**CHECK LIST FOR PREVENTIVE MAINTENANCE OF LIGHTNING ARRESTERS**

Name of the Substation :

Code of Substation:

Name of the Division

Date of inspection

Make &amp; Sr.no :

Date of commissioning :

Year of Mfg:

| Sr No | Item to be Inspected            | Brief Description of Work   | How it can be done             | Present status                     | Corrective Action taken for minor works | Further action required for major works |
|-------|---------------------------------|---|--------------------------------|------------------------------------|---|---|
| 1     | Base & Support                  | Usual inspection to detect cracking   | Visual and physical Inspection | Yes/No                             |   |   |
| 2     | Jumpers & clamps                | Check jumpers and clamps for tightness  | Visual and physical Inspection | Yes/No                             |   |   |
| 3     | Porcelain shells and insulators | Clean porcelain insulators and arrestor unit shells.<br>Repair chipped spots on porcelain with lacquer such as red clay paint | Visual and physical Inspection | Damaged Porcelain/Chipped spot ok/ |   |   |
| 4     | Gaps                            | Check external gaps.<br>Smooth off burnt spots and readjust spacing   | Visual and physical Inspection |                                    |   |   |

|   |                            |  |                                |  |  |  |
|---|----------------------------|--|--------------------------------|--|--|--|
| 5 | Line and Ground connection | Check and tighten line and ground connections. Check ground lead for corrosion or damage below ground line. Check ground resistance. See that all leads are as short and direct as possible. | Visual and physical Inspection |  |  |  |
|---|----------------------------|--|--------------------------------|--|--|--|

The agency carrying out maintenance should take the photo graphs before and after maintenance and upload the photograph and Checklist in ERP system.

Signature of Agency

Signature of substation In charge

## CHECKLIST FOR PREVENTIVE MAINTENANCE OF 33 kV, 22 kV & 11 kV CIRCUIT BREAKER

Name of the Substation :

Code of Substation:

Name of the Division

Date of inspection

Make &amp; Sr. no :

Date of commissioning :

Year of Mfg:

| Sr No | Item to be Inspected                    | Brief Description of Work   | How it can be done  | Present status   | Corrective Action taken for minor works | Further action required for major works |
|-------|---|---|---|--|---|---|
| 1     | Alarms and Lamp indication circuit, etc | Test the alarm system for continuity and lighting circuit and earthing system   | Press the lamp test push button of annunciator. Also the alarm /electric bell can be tested by simulating the fault condition   | Annunciator healthy/ Unhealthy   |   |   |
| 2     | Local remote operation                  | Check that breaker can be operated locally and in remote control operation.   | Put the L/R switch on local mode for local operation of breaker and on remote mode of the breaker during closing and tripping trials  | L/R switch operating/ Not operating  |   |   |
| 3     | Closing and Tripping coil /solenoid     | Observe operation during electrical tripping. See that full energy snappy action of plunger is obtained. Check plunger for sticking in guide.                         | Check the continuity of the coils by using multimeter. If the reading of multimeter is infinity then the coils are open/damaged   | Closing coil healthy /un healthy. Tripping coil healthy /Un healthy                                  |   |   |
| 4     | Earth resistance                        | Check earth resistance of body earthing of circuit breaker  | To be measured by earth tester. The value of earth resistance should be less than 5 Ohm   | Low/high   |   |   |
| 5     | Aux. switches                           | Check conditions of contacts and refinish with fine file if burnt or corroded. Check contact springs, operating rods and levers. Check closing and operating position | Take the continuity of the auxiliary contacts. For N/O (Normally open) contact Multi meter will show infinity and for N/C (Normally closed) contact multimeter shows zero. Confirm the change over of auxiliary contact | Auxiliary contacts corroded/ damaged. Changeover of auxiliary contact satisfactory /Non satisfactory |   |   |

|   |                                     |  |   |  |  |  |
|---|-------------------------------------|--|---|--|--|--|
|   |                                     | with respect to main contacts while breaker is slowly closed and opened manually   | during breaker operation.   |  |  |  |
| 6 | Foundations                         | Check foundations for cracks and settings. Settings of the breaker tank may break bushings or cause misalignment of contacts or bindings of operating mechanism.   | visual check  | Foundation OK/cracked/damaged.                             |  |  |
| 7 | Bushings or insulators              | Clean porcelain with water, chloroethene or other suitable cleaner. Repair chipped spots by painting with lacquer such as red clay paint. Inspect gaskets for leave, tighten bolts. Check insulation resistance with contacts closed . | visual check  | Bushing/Insulator cracked/damaged/chipped/fashover marks   |  |  |
| 8 | Power supply and wiring             | Inspect fuses and circuit breakers of all power and control supply circuits, check in insulation resistance of wiring with devices connected.  | wiring continuity is to be taken using continuity tester also the insulation resistance of wiring to be checked by 500v megger  | value insulation resistance should be more than 1 Mega Ohm |  |  |
| 9 | Interlocking arrangement for safety | Interlocking between<br>a) Breaker and OFF Load Switch (in case vacuum Breaker)<br>b) Breaker and Earth Switch (in case SF6 Breaker)<br>c) Earth Switch and Cable door   | a) When Breaker is in closed position, OFF Load Switch should not operate whether the Switch is in closed position or in Open position.<br>b) When Breaker is in closed position, earth switch of the same should not be closed and vice-versa. |  |  |  |

|  |  |  |   |  |  |  |
|--|--|--|---|--|--|--|
|  |  |  | c) When the Earth Switch is in closed position then only cable door can be open and vice versa. |  |  |  |
|--|--|--|---|--|--|--|

The agency carrying out maintenance should take the photo graphs before and after maintenance and upload the photograph and Checklist in ERP system.

Signature of Agency

Signature of substation In charge

**ANNEXURE-E****List of Services**

| Maharashtra State Electricity Distribution Company Limited |   |      |                    |
|--|---|------|--------------------|
| List Of Services (REPORT AS ON 19-MAY-2023 12:51 PM)       |   |      |                    |
| Order Type : Preventive                                    |   |      | ASSET : SUBSTATION |
| SCHEDULE TYPE : A  |   |      |                    |
| SERVICE NAME   | DESCRIPTION   | UNIT | SCHEDULED RATE     |
| PM.SS.001  | One Power Transformer 5 / 10 MVA  | No   | 10980              |
| PM.SS.002  | Two Power Transformer 5 / 10 MVA  | No   | 15250              |
| PM.SS.003  | Three Power Transformer 5 / 10 MVA  | No   | 18300              |
| PM.SS.004  | Switching Station 1 I /C & 4 O/G  | No   | 4880               |
| PM.SS.005  | Switching Station 2 I /C & 8 O/G  | No   | 7320               |
| SCHEDULE TYPE : B  |   |      |                    |
| PM.SS.006  | REPL failed/damaged CT/PT/LAs in Substn   | No   | 1220               |
| PM.SS.007  | REPL faulty battery cell 30V&110V batt  | No   | 244                |
| PM.SS.008  | REPL of faulty battery charger  | No   | 610                |
| PM.SS.009  | REPL Sub Stn DT for aux supply  | No   | 1220               |
| PM.SS.010  | REPL of damaged circuit breakers  | No   | 3660               |
| PM.SS.011  | REPL damaged/faulty capacitor_cell/cable  | No   | 122                |
| PM.SS.012  | REPL of damaged or faulty RVT   | No   | 1220               |
| PM.SS.013  | REPL damaged/deteriorated earthing set  | EA   | 12200              |
| PM.SS.027  | Breaker-Repairing frame, fixing extension for MS Angle frame for lifting the required working height from ground level with fabrication | NO   | 1647               |
| PM.SS.028  | Breaker-Dismantling cleaning fuse chamber of lbsf,insulating sheets for carbon and refixing with fixing arrangement                     | NO   | 488                |
| PM.SS.029  | Breaker-Providing & fixing HT HRC 11 kV fuse of proper rating with reconditioning, adjusting tripper mechanism of lbsf                  | NO   | 4819               |
| PM.SS.030  | Breaker-Providing & fixing HT HRC 22 kV fuse of proper rating with reconditioning, adjusting tripper mechanism of lbsf                  | NO   | 7265               |
| PM.SS.031  | Breaker-Removing of oil for repairs and again top up the oil (oil and empty drum by company)  | NO   | 427                |
| PM.SS.032  | Breaker-Providing and fixing insulating arms for male/female contacts for lbsf and lbs  | NO   | 3050               |
| PM.SS.033  | Breaker-Dismantling, reconditioning and fixing of 11 kV Male & Female contacts with necessary parts                                     | NO   | 5856               |
| PM.SS.034  | Breaker-Dismantling, reconditioning and fixing of 22 kV Male & Female contacts with necessary parts                                     | NO   | 8540               |
| PM.SS.035  | Breaker-Making alignment of male/ female contacts for smooth operation  | NO   | 1220               |
| PM.SS.036  | Breaker-Replacement of closing/tripping coil  | NO   | 732                |
| PM.SS.079  | Repairs/Reconditioning of 2V, 100 AH Battery sets (including electrolyte charge, discharge)   | NO   | 3660               |
| PM.SS.080  | Repairs/Reconditioning of 6V, 60 AH Battery sets (including electrolyte charge, discharge)  | NO   | 4270               |
| PM.SS.081  | Repairs/Reconditioning of 6V, 100 AH Battery sets (including electrolyte charge, discharge cycles & commissioning)                      | NO   | 4941               |
| PM.SS.014  | REPL control cable by proper size,core  | M    | 31                 |
| PM.SS.015  | Stringing Bus between Gantry 0.2ACSR con  | EA   | 2440               |
| PM.SS.016  | Laying of Power cable within Substation   | M    | 183                |



|                          |  |     |       |
|--------------------------|--|-----|-------|
| PM.SS.017                | Recondition,paint muffing & foundations  | No  | 366   |
| PM.SS.018                | Fixing of Fire Extinguisher with stand   | Set | 5124  |
| PM.SS.019                | REPL of Substation Isolator 33 or 22 kV  | Set | 1830  |
| PM.SS.020                | REPL of 11 kV AB Switch  | Set | 1220  |
| PM.SS.021                | REPL of Line type Lightening Arrestor  | Set | 366   |
| <b>SCHEDULE TYPE : C</b> |  |     |       |
| PM.SS.037                | Yard Lighting-Labour charges for Providing and Fixing Substation yard light (LED) with fixture of Philips/HavelEA/ Crompton standard make with ISI make. | NO  | 244   |
| PM.SS.038                | Yard Lighting-Providing and Fixing 4Cx6 sq mm armoured cable   | RMT | 268   |
| PM.SS.039                | Yard Lighting-Providing and Fixing main switch 32A/ 415 V TPN Philips/ HavelEA/ Crompton standard make with ISI mark                                     | NO  | 2013  |
| PM.SS.040                | Yard Lighting-Providing and fixing GI/PVC pipe suitable for light fitting along with clamps wherever required  | NO  | 671   |
| PM.SS.041                | Yard Lighting-Providing and Fixing 2.5 sq mm flexible wire   | RMT | 171   |
| PM.SS.042                | Yard Lighting-Providing and fixing of earthing of poles  | NO  | 2318  |
| PM.SS.043                | Yard Lighting-Providing and fixing of pole junction box with MCB   | NO  | 1586  |
| PM.SS.044                | Replacement of all types of Relay  | NO  | 1220  |
| PM.SS.045                | Repairs of Relay-Overcurrent Earth Fault   | NO  | 4270  |
| PM.SS.046                | Repairs of Relay-Differential Protection Relay   | NO  | 11590 |
| PM.SS.047                | Repairs of Relay-Auxillary Protection Relay  | NO  | 915   |
| PM.SS.048                | Repairs of Relay-Master Trip Relay   | NO  | 671   |
| PM.SS.049                | Draining of Oil from Transformer to Empty barrel   | L   | 6     |
| PM.SS.050                | Filling of Oil from fresh oil barrel into transformer main tank and OLTC through filter machine  | L   | 6     |
| PM.SS.051                | Filtration of Oil up to 10 MVA Tranformer & OLTC in Substation   | L   | 6     |
| PM.SS.052                | Radiator repairing charges   | EA  | 3660  |
| PM.SS.053                | Dismantling top plate to attend oil leakage, for replacement of gasket and other minor repair work of power transformer at site                          | EA  | 18300 |
| PM.SS.054                | Supply and Fixing of HT/LT rubber set suitable for 10  | NO  | 793   |
| PM.SS.055                | Supply and Fixing 60x6 copper strip for connection   | NO  | 1159  |
| PM.SS.056                | Providing & replacement all required Gaskets & Washers of Main tank cover (Top cover)  | EA  | 18300 |
| PM.SS.057                | Providing & replacement all required Gaskets & Washers of LV/HV Bushings   | NO  | 2288  |
| PM.SS.058                | Providing & replacement all required Gaskets & Washers of Explosion Vent Pipe  | EA  | 1220  |
| PM.SS.059                | Providing & replacement all required Gaskets & Washers of Inspection window of Top cover   | NO  | 2745  |
| PM.SS.060                | Providing & replacement all required Gaskets & Washers of conservator tank & its valve   | EA  | 6863  |
| PM.SS.061                | Providing & replacement all required Gaskets & Washers of Inspection window of OLTC  | EA  | 11438 |
| PM.SS.062                | Providing & replacement all required Gaskets & Washers of Radiators  | NO  | 1830  |

|           |   |     |        |
|-----------|---|-----|--------|
| PM.SS.063 | Overhauling of OLTC   | EA  | 3813   |
| PM.SS.064 | Providing & Replacement of LV Bushing   | NO  | 2288   |
| PM.SS.065 | Providing & Replacement of HV Bushing   | NO  | 2745   |
| PM.SS.066 | Painting of outdoor all structure & equipment including Gantry, CTs, PTs, Isolators, etc              | NO  | 305000 |
| PM.SS.067 | Providing & Fixing of Radiators with gasket for 10 MVA transformers with topping of oil               | NO  | 34178  |
| PM.SS.068 | Providing & Fixing of Plunger Assembly  | NO  | 1220   |
| PM.SS.069 | Providing & Fixing of Tripping Spring   | NO  | 1586   |
| PM.SS.070 | Providing & Fixing of small bearing   | NO  | 1830   |
| PM.SS.071 | Providing & Fixing of Drive Rod complete  | NO  | 4270   |
| PM.SS.072 | Providing & Fixing of Spring charging retrofit motor 230 V AC DC UMG type                             | NO  | 11682  |
| PM.SS.073 | Providing & Fixing of Trip catch with all linkage assembly  | NO  | 4026   |
| PM.SS.074 | Providing & Fixing of reconditioning of VCB   | NO  | 5490   |
| PM.SS.075 | Providing & Fixing of Rectifier for circuit motor   | NO  | 1220   |
| PM.SS.076 | Providing & Fixing of LED Lamp Indication   | NO  | 305    |
| PM.SS.077 | Replacement of faulty battery cell suitable for 30V & 110V battery                                    | NO  | 244    |
| PM.SS.078 | Replacement of faulty battery charger   | NO  | 610    |
| PM.SS.082 | Repair/Reconditioning/Repl of Battery Cell & Charger  | SET | 1220   |
| PM.SS.083 | Providing & Fixing of lead strips (Battery Maint.)  | NO  | 122    |
| PM.SS.084 | Providing & replacement of HV Bushing rod with accessories for Power Transformer                      | NO  | 6222   |
| PM.SS.085 | Providing & replacement of HV Bushing rod with accessories for Power Transformer                      | NO  | 5063   |
| PM.SS.086 | Providing & replacement of Bucholz Relay  | NO  | 14030  |
| PM.SS.087 | Providing & replacement of Oil Temperature Indicator (OTI) with mercury switch                        | NO  | 6710   |
| PM.SS.088 | Providing & replacement of Winding Temperature Indicator (WTI) with mercury switch                    | NO  | 6710   |
| PM.SS.089 | Providing & replacement of Oil Temperature Indicator (OTI) other than mercury switch/micro switch     | NO  | 6710   |
| PM.SS.090 | Providing & replacement of Winding Temperature Indicator (WTI) other than mercury switch/micro switch | NO  | 6710   |
| PM.SS.091 | Providing & replacement of Breather with silica gel for main tank                                     | NO  | 3355   |
| PM.SS.092 | Providing & replacement of Breather with silica gel for OLTC  | NO  | 2196   |
| PM.SS.093 | Providing & replacement of Oil Surge Relay  | NO  | 9515   |
| PM.SS.094 | Providing & replacement of Oil level Indicator Glass with accessories                                 | NO  | 2318   |



OFFICE OF THE Superintending Engineer Dhule CIRCLE

MSEDCL, Dhule,

DIST. Dhule, Pin Code – 424001.

|                                 |
|---------------------------------|
| TENDER NO. SE/DHLC/T-08/2023-24 |
|---------------------------------|

**(PRICE BID)**

***Preventive Maintenance of 33/11 kv Substations under Dhule RURAL Division  
Of Dhule Circle under Jalgaon Zone.***

E.M.D. Rs. 25,000/- (Rs-Twenty five thousand only)

## UNDERTAKING

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

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

Place :

Signature of Tenderer

Date:

**LETTER TO THE SUPERINTENDING ENGINEER**

To,  
Superintending Engineer,  
Maharashtra State Electricity Distribution Co. Ltd.,  
Dhule Circle, Dist. Dhule, Pin 424001

Dear Sir,

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

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

**Yours faithfully,**

DATE:

Name & Address of the Tenderer.

Seal and Signature of the Tenderer.

**Price Bid**

| <b>Preventive maintenance of 33/11 kV, 33/22 kV, 22/11 kV or Switching Station as per Schedule A, B &amp; C</b>   |                                |
|---|--------------------------------|
| <b>Description</b>  | <b>% Rate for Year 2023-24</b> |
| <b>Charges including consumables item as per Annexure E towards preventive Maintenance of 33/11 kV, 33/22 kV, 22/11 kV or Switching Station As per MSEDCL's requirement</b> |                                |

1. While quoting the rates the bidder should refer Annexure E .
2. The work can go up beyond estimated quantity. The estimated quantities are taken from previous year base data for breakdown.
3. The rates quoted should be inclusive of consumable items as per Annexure-D and loading, unloading of materials by contractor from Divisional stores to Work site and vice versa including transportation.
4. If the Cost of any material /equipment is not available in the Cost Data, the same shall be taken from the work executed in the adjoining Division/Circle.
5. The major material will be provided by MSEDCL such as Bushing, Insulators, Station Transformer, Breaker, CT/PT, conductor, AB Switch, Isolator, RMU etc if available. However, in case these materials are not available with MSEDCL, the same will be supplied by the contractor @ rate of prevailing cost data of MSEDCL together with price indexing if applicable.
6. Old / Damaged cables / materials removed from site shall be credited to Divisional Stores by the Agency.
7. Applicable rate of G.S.T. 18%(as per notification published).

**Seal and Signature of the Tenderer.**

### PREVENTIVE MAINTENANCE OF SUBSTATION ACTIVITIES FOR SCHEDULE "A"

| Sr. No. | Activity                                   | Action to be taken |   |
|---------|--|--------------------|---|
| 1       | Checking of all earthing in the substation | i                  | Measure the Earth resistance value  |
|         |  | ii                 | If the earthing strip is found broken/cut ,welding is to be carried out for continuity of earth connection.   |
|         |  | iii                | Replace of rusted earthing nut/ earth strip.  |
| 2       | Checking & Tightening of all connections   | i                  | Tightening of nut bolts of cable end termination. Replace of welded nut bolts/melt connectors   |
|         |  | ii                 | Checking and Tightening of ACDB and DC DB ,marshalling box ,distribution box of substation transformer  |
|         |  | iii                | Tightening of Jumpers of all equipments including Bus bar and isolators .(CT/PT, Breaker, Capacitor bank, Transformer, Jumpers, Lightning Arrester)                                 |
| 3       | Checking of alignment of Isolators         | i                  | Ensure correct gang operation of Isolator .Greasing and oiling to moving parts of isolators, Earthing of isolator with EB and Without EB.   |
| 4       | Cleaning of all insulators and bushing     | i                  | Cleaning of all insulators and bushing with dry cloths/cotton west  |
|         |  | ii                 | Replace the insulator having flashover marks/cracks ,If chipped, apply acrylic compound   |
|         |  | ii                 | Tightening the nut and bolts of equipment from where oil leaks observed.Clean the all oily surfaces.Arrest the leakage by replacing gasket/applying M-seal at the place of leakage. |
| 6       | Breather/Silica gel replacement            | i                  | Replacement of silica gel if found red/refilling the same silica gel after drying.Ensure that the air passage of the breather is not blocked.                                       |
|         |  | ii                 |   |
| 7       | Battery charger and cell checking          | i                  | Tightening of loose connections .   |
|         |  | ii                 | Clean the battery charger by air blower   |

|    |                                     |     |  |
|----|-------------------------------------|-----|--|
|    |                                     | iii | Measuring of output voltage/current of - transformer of battery charger and exhaust fan operation  |
|    |                                     | iv  | Measuring voltage and Specific gravity of cells  |
|    |                                     | v   | Earth leakage if any be arrested   |
|    |                                     | vi  | providing petroleum jelly on every contact of cell   |
| 8  | Circuit Breaker Operation           | i   | Cleaning of Breakers poles.  |
|    |                                     | ii  | Ensure that the Interlocking arrangement of breaker  |
|    |                                     | iii | Ensure the breaker for operation under remote, local & manual control  |
|    |                                     | iv  | Checking of trip coil and closing coil healthiness.  |
|    |                                     | v   | Checking of spring charging mechanism healthiness.   |
|    |                                     | vi  | Tripping/closing operations of breakers.   |
| 9  | Replacement of bulbs, small gadgets | i   | Replace indicating bulbs, if found blown   |
|    |                                     | ii  | Check breaker control switch, selector switch(RYB) and local remote switch for correct operation. If found faulty then replace the same. |
|    |                                     | iii | Check annunciator for working  |
|    |                                     | iv  | Replace faulty push buttons on the panels.   |
| 10 | Control room /Yard lighting         | i   | Ensure whether wiring of yard lighting is healthy  |
|    |                                     | ii  | Replace damage/rusted sockets/flood light brackets   |
| 11 | Control room/Yard maintenance       | i   | Cleaning of yard, grass cutting, tree trimming,  |



**PREVENTIVE MAINTENANCE OF SUBSTATION  
ACTIVITIES FOR SCHEDULE "B"**

| <b>Sr. No.</b> | <b>Activity</b>                               | <b>Action to be taken</b>   |
|----------------|---|---|
| 1              | Failed CT/PT/ Isolators/LAs                   | Replacement of CT/PT/ Isolators/LAs   |
| 2              | Faulty Battery charger and faulty Battery set | Replacement of faulty battery cell.   |
|                |   | Replacement of faulty battery charger   |
| 3              | Failed Substation transformer                 | Replacement of substation transformer for auxiliary supply  |
| 4              | Faulty Circuit breakers                       | Replacement or repairs of damaged circuit breakers of various makes   |
| 5              | Faulty Capacitor Bank                         | Replacement of damaged/faulty capacitor cell/damaged cable if any   |
|                |   | Replacement of damaged or faulty RVT(Residual voltage transformer)  |
| 6              | Faulty control cables                         | Replacement of control cable by proper size and core  |
| 7              | Earthing                                      | If the earth resistance value is found above 2 Ohm then reactivate the earthing by adding water, salt, charcoal or Bentonite powder . |

**PREVENTIVE MAINTENANCE OF SUBSTATION  
ACTIVITIES FOR SCHEDULE "C"**

| <b>Sr. No.</b> | <b>Activity</b>   |
|----------------|---|
| 1              | Repair / Reconditioning of Battery Set (capacity: 2V & 100A, 6V & 100A(AMC))    |
| 2              | Repair / Replacement of Earthing  |
| 3              | Replacement of control cable by proper size and core                            |
| 4              | Stringing of old Main Bus or Bus between Gantry by using 0.2 ACSR conductor     |
| 5              | Overhauling/Repairing/Reconditioning of Indoor type Breaker 11kV, 22 kV & 33kV  |
| 6              | Overhauling/Repairing/Reconditioning of Outdoor type Breaker 11kV, 22 kV & 33kV |
| 7              | Laying of Power cable within Substation   |
| 8              | Reconditioning of damaged muffing & painting of damaged foundations             |

Note:

1. The above specified work will be carried out during the planned outage only.
2. Activity of Schedule 'B' will be implemented on the receipt of report of Schedule 'A'.
3. Activity of Schedule 'C' will be implanted after observing the annual budget for maintenance.



OFFICE OF THE Superintending Engineer Dhule CIRCLE

MSEDCL, Dhule,

DIST. Dhule, Pin Code – 424001.

|                                 |
|---------------------------------|
| TENDER NO. SE/DHLC/T-08/2023-24 |
|---------------------------------|

**(PRICE BID)**

***Preventive Maintenance of 33/11 kv Substations under Dhule Rural Division  
Of Dhule Circle under Jalgaon Zone.***

E.M.D. Rs. 25,000/- (Rs-Twenty five thousand only)

## UNDERTAKING

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

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

Place :

Signature of Tenderer

Date:

**LETTER TO THE SUPERINTENDING ENGINEER**

To,  
Superintending Engineer,  
Maharashtra State Electricity Distribution Co. Ltd.,  
Dhule Circle, Dist. Dhule, Pin 424001

Dear Sir,

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

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

**Yours faithfully,**

DATE:

Name & Address of the Tenderer.

Seal and Signature of the Tenderer.

**Price Bid**

| <b>Preventive maintenance of 33/11 kV, 33/22 kV, 22/11 kV or Switching Station as per Schedule A, B &amp; C</b>   |                                |
|---|--------------------------------|
| <b>Description</b>  | <b>% Rate for Year 2023-24</b> |
| <b>Charges including consumables item as per Annexure E towards preventive Maintenance of 33/11 kV, 33/22 kV, 22/11 kV or Switching Station As per MSEDCL's requirement</b> |                                |

1. While quoting the rates the bidder should refer Annexure E .
2. The work can go up beyond estimated quantity. The estimated quantities are taken from previous year base data for breakdown.
3. The rates quoted should be inclusive of consumable items as per Annexure-D and loading, unloading of materials by contractor from Divisional stores to Work site and vice versa including transportation.
4. If the Cost of any material /equipment is not available in the Cost Data, the same shall be taken from the work executed in the adjoining Division/Circle.
5. The major material will be provided by MSEDCL such as Bushing, Insulators, Station Transformer, Breaker, CT/PT, conductor, AB Switch, Isolator, RMU etc if available. However, in case these materials are not available with MSEDCL, the same will be supplied by the contractor @ rate of prevailing cost data of MSEDCL together with price indexing if applicable.
6. Old / Damaged cables / materials removed from site shall be credited to Divisional Stores by the Agency.
7. Applicable rate of G.S.T. 18%(as per notification published).

**Seal and Signature of the Tenderer.**

### PREVENTIVE MAINTENANCE OF SUBSTATION ACTIVITIES FOR SCHEDULE "A"

| Sr.<br>No. | Activity                                   | Action to be taken |   |
|------------|--|--------------------|---|
| 1          | Checking of all earthing in the substation | i                  | Measure the Earth resistance value  |
|            |  | ii                 | If the earthing strip is found broken/cut ,welding is to be carried out for continuity of earth connection.   |
|            |  | iii                | Replace of rusted earthing nut/ earth strip.  |
| 2          | Checking & Tightening of all connections   | i                  | Tightening of nut bolts of cable end termination. Replace of welded nut bolts/melt connectors   |
|            |  | ii                 | Checking and Tightening of ACDB and DC DB ,marshalling box ,distribution box of substation transformer  |
|            |  | iii                | Tightening of Jumpers of all equipments including Bus bar and isolators .(CT/PT, Breaker, Capacitor bank, Transformer, Jumpers, Lightning Arrester)                                 |
| 3          | Checking of alignment of Isolators         | i                  | Ensure correct gang operation of Isolator .Greasing and oiling to moving parts of isolators, Earthing of isolator with EB and Without EB.   |
| 4          | Cleaning of all insulators and bushing     | i                  | Cleaning of all insulators and bushing with dry cloths/cotton west  |
|            |  | ii                 | Replace the insulator having flashover marks/cracks ,If chipped, apply acrylic compound   |
|            |  | ii                 | Tightening the nut and bolts of equipment from where oil leaks observed.Clean the all oily surfaces.Arrest the leakage by replacing gasket/applying M-seal at the place of leakage. |
| 6          | Breather/Silica gel replacement            | i                  | Replacement of silica gel if found red/refilling the same silica gel after drying.Ensure that the air passage of the breather is not blocked.                                       |
|            |  | ii                 |   |
| 7          | Battery charger and cell checking          | i                  | Tightening of loose connections .   |
|            |  | ii                 | Clean the battery charger by air blower   |

|    |                                     |     |  |
|----|-------------------------------------|-----|--|
|    |                                     | iii | Measuring of output voltage/current of - transformer of battery charger and exhaust fan operation  |
|    |                                     | iv  | Measuring voltage and Specific gravity of cells  |
|    |                                     | v   | Earth leakage if any be arrested   |
|    |                                     | vi  | providing petroleum jelly on every contact of cell   |
| 8  | Circuit Breaker Operation           | i   | Cleaning of Breakers poles.  |
|    |                                     | ii  | Ensure that the Interlocking arrangement of breaker  |
|    |                                     | iii | Ensure the breaker for operation under remote, local & manual control  |
|    |                                     | iv  | Checking of trip coil and closing coil healthiness.  |
|    |                                     | v   | Checking of spring charging mechanism healthiness.   |
|    |                                     | vi  | Tripping/closing operations of breakers.   |
| 9  | Replacement of bulbs, small gadgets | i   | Replace indicating bulbs, if found blown   |
|    |                                     | ii  | Check breaker control switch, selector switch(RYB) and local remote switch for correct operation. If found faulty then replace the same. |
|    |                                     | iii | Check annunciator for working  |
|    |                                     | iv  | Replace faulty push buttons on the panels.   |
| 10 | Control room /Yard lighting         | i   | Ensure whether wiring of yard lighting is healthy  |
|    |                                     | ii  | Replace damage/rusted sockets/flood light brackets   |
| 11 | Control room/Yard maintenance       | i   | Cleaning of yard, grass cutting, tree trimming,  |



**PREVENTIVE MAINTENANCE OF SUBSTATION  
ACTIVITIES FOR SCHEDULE "B"**

| <b>Sr. No.</b> | <b>Activity</b>                               | <b>Action to be taken</b>   |
|----------------|---|---|
| 1              | Failed CT/PT/ Isolators/LAs                   | Replacement of CT/PT/ Isolators/LAs   |
| 2              | Faulty Battery charger and faulty Battery set | Replacement of faulty battery cell.   |
|                |   | Replacement of faulty battery charger   |
| 3              | Failed Substation transformer                 | Replacement of substation transformer for auxiliary supply  |
| 4              | Faulty Circuit breakers                       | Replacement or repairs of damaged circuit breakers of various makes   |
| 5              | Faulty Capacitor Bank                         | Replacement of damaged/faulty capacitor cell/damaged cable if any   |
|                |   | Replacement of damaged or faulty RVT(Residual voltage transformer)  |
| 6              | Faulty control cables                         | Replacement of control cable by proper size and core  |
| 7              | Earthing                                      | If the earth resistance value is found above 2 Ohm then reactivate the earthing by adding water, salt, charcoal or Bentonite powder . |

**PREVENTIVE MAINTENANCE OF SUBSTATION  
ACTIVITIES FOR SCHEDULE "C"**

| <b>Sr.<br/>No.</b> | <b>Activity</b>   |
|--------------------|---|
| 1                  | Repair / Reconditioning of Battery Set (capacity: 2V & 100A, 6V & 100A(AMC))    |
| 2                  | Repair / Replacement of Earthing  |
| 3                  | Replacement of control cable by proper size and core                            |
| 4                  | Stringing of old Main Bus or Bus between Gantry by using 0.2 ACSR conductor     |
| 5                  | Overhauling/Repairing/Reconditioning of Indoor type Breaker 11kV, 22 kV & 33kV  |
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## LIST OF SERVICES

| SR.<br>NO. | SERVICE NAME                             | ACTIVITY<br>NUMBER | UOM              | SAC CODE | REQ. QTY | VERSION | MATERIAL<br>TYPE |
|------------|--|--------------------|------------------|----------|----------|---------|------------------|
| 1          | Sub Station Maint.<br>Preventive Service | PM.PREV.Su<br>bStn | Activity<br>unit | 9954     | 1        |         | null             |

|  |  |  |  |  |
|--|--|--|--|--|
| Required Documents (To be uploaded online) |  |  |  |  |
|--|--|--|--|--|

| Sr. No. | NAME      | SECTION            | ITEM               | DESCRIPTION          |
|---------|-----------|--------------------|--------------------|----------------------|
| 1       | Price Bid | Price Section      | Sub Station Maint. | Price bid documents  |
| 2       | Tech Bid  | Technical Section  | Sub Station Maint. | Technical documents  |
| 3       | comm. bid | Commercial Section |                    | commercial documents |