



**MADHYA PRADESH POWER GENERATING CO. LTD**  
(GoMP Undertaking, CIN-U40109MP2001SGC0148820)  
**OFFICE OF THE SUPERINTENDING ENGINEER (O&M)**  
**MADHIKHEDA HYDEL POWER STATION,**  
**MADHIKHEDA P.O. – NARWAR, DISTT. SHIVPURI – 473880 (M.P.)**  
website: [www.mppgcl.mp.gov.in](http://www.mppgcl.mp.gov.in) E- mail: [semhps@gmail.com](mailto:semhps@gmail.com) Phone No: 9425318160

NO.597-1500/WT-1/2026\_MPPGC\_479303\_1/48

Madhikheda, dt 16.04.2026

**"Through e-tendering process only"**

1. M.P. Power Generating Co Ltd. inviting Electronic Tenders only for the following work for MHPS, MPPGCL, Madhikheda, Shivpuri.

Sr No.	Tender No	Tender Particulars	Estimated Cost	EMD (in Rs)	Tender Cost (in Rs)	Qty of work & Work completion period	Due Date & Time for Closing of Online Submission	Due Date & Time of Opening of e-Tender
1	2026_MPPGC_479303_1	Work for opportunity maintenance of 3x20 MW units & their associated auxiliaries/ equipment including under water parts of U#2 at MHPS, MPPGCL, Madhikheda, Shivpuri for the year 2026.	Rs. 14,78,380.00 Inclusive GST@18%	Rs. 30,000.00	Rs. 1000.00	As per Schedule for 3x20MW Units & 70 days (20 days for U#1, 30 days for U#2, 20 days for U#3)	Dated 18.05.2026 Up to 15:00 Hrs	Dated 19.05.2026 From 16:00 Hrs Onwards

**Estimated Amount: - Rs. 14,78,380.00 inclusive of all charges.**

This tender is being invited through e-tendering system. For viewing detailed NIT, downloading tender documents and participating in Electronic Tenders, for any clarifications and/or due date extension or corrigendum, please visit the website [www.mptenders.gov.in](http://www.mptenders.gov.in) regularly. Any clarifications and/ or due date extension or corrigendum shall be issued on the website [www.mptenders.gov.in](http://www.mptenders.gov.in) only.

The bidders or their authorized representative may witness tender opening.

- Note:** (i) MPPGCL HAS DECIDED THAT THE BIDDERS NOT SUBMITTING ALL THE DESIRED DOCUMENTS AS PER NIT/TENDER DOCUMENT AT THE TIME OF BID SUBMISSION SHALL NOT BE ALLOWED TO SUBMIT DOCUMENTS SUBSEQUENTLY AND THEIR BIDS SHALL BE REJECTED ON ACCOUNT OF INCOMPLETE DOCUMENTS. "(Please read with NIT clause 20(b) for details.)"
- (ii) Following conditions will over-rule the conditions stated in the tender documents, wherever relevant and applicable.

**2. e-Tendering:-**

For participation in e-tendering module of MPPGCL, it is mandatory for prospective bidders to get it registered on e- procurement website i.e. [www.mptenders.gov.in](http://www.mptenders.gov.in). Therefore, it is advised to all prospective bidders to get them registered by completing the requirements for online registration including payment of requisite fee at the earliest.

**"SAVE ELECTRICITY"**

Corporate Office: Madhya Pradesh Power-Generating Company Limited, Block No. 9, Shakti Bhawan, Vidyut Nagar, Rampur, Jabalpur (M.P) 482008, Website: [mppgenco.nic.in](http://mppgenco.nic.in)

CIN - 40109MP2001SGC014882 GSTIN - 23AADCM4472A17Z

The registration fees for the e-procurement website should be borne by the bidders and no exemptions are allowed in registration fees.

Service and gateway charges as applicable shall be borne by the bidders.

The bidders are required to sign their bids online using Class-III Digital Signature Certificates (DSC). Bidders are therefore advised to obtain the same at the earliest without waiting for the due date of bid submission.

The issuance of Digital Signature Certificate may take up to 7 to 10 working days. In such situations MPPGCL will not be responsible for delay in issue of Digital Signature Certificate.

If bidder is going first time for e-tendering, then it is obligatory on the part of bidder to fulfill all formalities such as registration, obtaining Digital Signature Certificate etc. well in advance.

Bidders are requested to visit e-procurement website regularly for any clarifications and/ or amendments and/or due date extension.

Bidder must positively complete online e-tendering procedure at e-procurement website i.e. [mptenders.gov.in](http://mptenders.gov.in).

MPPGCL shall not be responsible in any way for delay/difficulties/ inaccessibility of the downloading facility from the e-procurement/ MPPGCL website for any reason whatsoever.

The bidder whosoever is submitting the offer by their Digital Signature Certificate shall invariably upload the scanned copy of the authority letter to submit offer on behalf of the firm.

DSC once mapped to an account cannot be remapped to any other account. It can only be inactivated.

For any type of clarifications bidders can visit [www.mptenders.gov.in](http://www.mptenders.gov.in) and help desk contact No. 0120-4200462, 0120-4001002, 0120-4001005 & 0120-6277787 and email: Technical Support - [support-eproc@nic.in](mailto:support-eproc@nic.in).

### 3. Purchase of Tender document: -

3.1. Tender documents to be purchased online and downloaded from e-procurement website by making payment of tender document fees as per NIT. Tender document fees shall not be refunded.

3.2. Exemption for MSEs, START UP and SSI of MP from payment of Tender Fees: -

The bidders "Situating /Based" in the state of Madhya Pradesh and registered as,

- "Micro & Small Enterprises (MSEs)" / "START UP"
- "S.S.I units with D.I.C (District Industries Centre )" / "Khadi & Village Industries Commission (KVIC)" / "Khadi & Village Industries Board (KVIB)" / "Coir Board" / "Directorate of Handicrafts and Handloom".
- "Udyog Aadhar Memorandum (UAM)" or any other body specified by Ministry of Micro ,Small & Medium Enterprises (MoMSME)".

for the tendered item(s) are exempted from paying the tender fees; however such firms shall have to upload the requisite documents on e-procurement website, otherwise such Bid/offer shall likely to be rejected.

NOTE: -

i) The bidders "Situating /Based" in the state of Madhya Pradesh and registered as Medium Enterprises are not allowed for exemption in Tender Fees. Hence should not opt Tender Fee Exemption on the basis of above documents.

(ii) The MSEs permanently registered with NSIC are not exempted from submission of tender fee Apart from above, no other bidder is exempted from payment of tender fees.

### 3.3. Requirement to read tender document by bidder

The bidders are requested to go through all the contents of tender documents, SBD, technical schedule etc thoroughly before submission of their Bids/offers.

### 4. Earnest Money Deposit: -

EMD is to be submitted by the bidder either through net banking/ RTGS/ NEFT or in the form of Bank Guarantee. The clause mentioned below may be referred for detailed procedure of submission of EMD. The tenderer or their authorized representatives may be present at the time of tender opening.

"SAVE ELECTRICITY"

Corporate Office: Madhya Pradesh Power-Generating Company Limited, Block No. 9, Shakti Bhawan, Vidyut Nagar, Rampur, Jabalpur (M.P) 482008, Website: [mppgenco.nic.in](http://mppgenco.nic.in)

CIN - 40100MP2001SGC014882

GSTIN - 23AADCM4472A177

- 4.1. In case of opting for BG, EMD is to be prepared in the form of BG from Nationalized/Scheduled Bank strictly as per the format enclosed as Annexure-II with validity of 9 months from the date of opening of tender and bidder is required to upload scanned self-certified copy of BG on e-portal and submit original BG in physical form but only after opening of bid(s), within seven days thereafter. The envelope containing original BG should be properly super- scribed that this envelope contains original BG against respective tender with due date & time of tender opening as per NIT.
- 4.2. No offer will be accepted without valid Earnest Money Deposit unless exempted as detailed in point No.(1.10) of "Instructions to Bidders (ITB) in Standard Bid Document". The para 1.10 (IV) (a) of SBD is partially modified which will be read as following.  
The bidders "Situating/Based" in the state of Madhya Pradesh and registered as
- "Micro & Small Enterprises / START UP"
  - "S.S.I. units with D.I.C. (District Industries Center) of Madhya Pradesh"
  - "Khadi & Village Industries Commission (KVIC)" / " Khadi & Village Industries Board (KVIB) " / " Coir Board" / "Directorate of Handicrafts and Handloom"
  - "Udyog Aadhar Memorandum (UAM)" or "any other body specified by Ministry of Micro, Small & Medium Enterprises (MoMSME)" for the tendered item(s) are exempted from paying the earnest money; however such firms shall have to upload the requisite documents on e-procurement website.
- 4.3. The prospective bidders will upload scanned and self- certified copies of requisite documents for exemption of EMD on the website along with tender offer.
- 4.4. For this, the bidder has to opt for "exemption" option on the website and to upload scanned copy of Document for exemption of EMD.

**NOTE:**

- I. **EARNEST MONEY DEPOSIT (EMD) MAY BE SUBMITTED ONLINE THROUGH E-PORTAL OR THROUGH BANK GUARANTEE. IN CASE OF OPTING FOR BG, BIDDER IS REQUIRED TO UPLOAD SCANNED COPY OF BG ON E-PORTAL AND SUBMIT ORIGINAL BG IN PHYSICAL FORM BUT ONLY AFTER OPENING OF BID(S), WITHIN SEVEN DAYS THEREAFTER. THE BID OF SUCH BIDDERS SHALL BE CONSIDERED FOR EVALUATION ONLY AFTER RECEIPT OF ORIGINAL BG IN PHYSICAL FORM AND ITS VERIFICATION.**
- II. **FURTHER, NO CORRESPONDENCE WITH REGARD TO EMD SHALL BE DONE WITH THE BIDDERS THROUGH SHORTFALL OF WINDOW ON E-TENDERING WEBSITE.THE OFFERS RECEIVED WITHOUT EMD, SHALL BE SUMMARILY REJECTED.**
- III. **FOR SUBMISSION OF EMD, STRICTLY FOLLOW POINT NO. (1.10) OF "INSTRUCTIONS TO BIDDERS (ITB) IN STANDARD BID DOCUMENT".**
- IV. **THE DOCUMENTS UPLOADED AGAINST EXEMPTION ALONGWITH THE INITIAL OFFER SHALL BE CONSIDERED FINAL.**

**5. Credential and PQR: -**

(a) Bidder should be a Contractor / Service Provider / Firm/Joint Venture. GST and EPF registration are to be uploaded.

(b) Copies of successfully executed orders (including part executed) by the bidder as a main contractor of same or similar (i.e. servicing/breakdown/preventive maintenance work of equipment and their associated auxiliaries) type of works/contracts for 15 MW or higher capacity hydel unit in State Owned Power Generating Companies /Other captive Power Utilities of PSU/NTPC/ Govt. industries or departments/ Semi Govt. industries or departments/Other leading industries/PPPs/PSUs in India placed in last 7 Years ending with initial date of opening of bid are required to be uploaded for the value as under:-

- (i) Minimum one order of the value not less than 80% (i.e. Rs.11.82 lakh) of estimated tender value OR.
- (ii) Minimum two order each of the value not less than 50% (i.e. Rs.7.39 lakh) of estimated tender value OR.
- (iii) Minimum three order each of the value not less than 40% (i.e. Rs.5.91 lakh) of estimated tender value.

Note:- In case if the order copies submitted by bidder having contract period more than a year than for evaluation purpose annualized value shall be consider to meet out the PQR criteria.

**"SAVE ELECTRICITY"**

Corporate Office: Madhya Pradesh Power-Generating Company Limited, Block No. 9, Shakti Bhawan, Vidyut Nagar, Rampur,

Jabalpur (M.P) 482008, Website: mppgenco.nic.in

CIN - 40109MP2001SGC014882 GSTIN - 23AADC4472A17Z

(c) Average annual turnover of the bidder for during 3 consecutive financial years (FYs) in last 4 FYs should not be less than annualized estimated tender value (i.e. Rs. 14.78 Lakh). Documentary evidence as applicable from the followings is required to be submitted:-

- (i) In case if the estimated tender value is equal or less than Rs. 200 lakhs, Audited Balance Sheets and P&L accounts OR certificate issued by chartered accountant containing UDIN is to be uploaded.
- (ii) In case if the estimated tender value is more than Rs. 200 lakhs Audited Balance Sheets and P&L accounts AND certificate issued by chartered accountant containing UDIN is to be uploaded.

(d) Participating bidder (except PSUs/ Government Organizations) is required to upload notarized affidavit on non-judicial stamp paper of appropriate value (which is presently Rs. 200) that "Neither the bidder nor any of its sister concern are facing insolvency & bankruptcy".

(e) The OEM/OES (who have done supply, erection & commissioning) of 20MW hydel unit or any other bidder who have successfully completed supply, erection, commissioning of same capacity i.e., 20MW or higher capacity hydel as a main contractor in any power utility stated above in (b) will submit the relevant documents (detailed order copies including work schedule/successful work completion certificate etc.) The work orders received by other than OEM/OES bidder should not be older than 7 years ending with initial date of opening of bid. Such bidders (i.e., OEM/OES or any other bidder) are not required to submit copies of successfully executed orders as indicated in (b) above.

Note- Firm has to submit affidavit of Insolvency & Bankruptcy which should be issued after tender publishing date specifying the tender no. in prescribed format as per NIT clause 5(d). Such affidavit should be notarized duly affixed with notarial ticket worth as per prevailing rate of individual state.

6. The undertaking as per Annexure -III of SBDs (clause no.1.15 i.e. Preparation, submission, opening and verification of Bid Proposals of Instructions to Bidders sub clause-IX) for successful execution of contract earlier awarded to prospective bidder is to be uploaded/submitted with required PQR documents by all the bidders except Government Organizations and/or Public Sector Undertakings.
7. The Tender Acceptance Letter to be given on letter head of company of the bidder as per Annexure-XI of SBD (clause no. 1.16- i.e. Deviations from Terms & Conditions/Tender acceptance letter of Instructions to Bidders) is to be uploaded/submitted with techno-commercial offer.
8. The duly notarized affidavit affixed with notarial tickets worth as per prevailing rate of individual state on non-judicial stamp paper of Rs.200/- as per Annexure-IX of SBD (clause no. 1.26- i.e. Disqualification of Bidder of Instructions to Bidders) for No Banning/ Black Listing/ Delisting is to be uploaded/ submitted with techno-commercial offer by all the bidders except Government Organizations and/or Public Sector Undertakings. Hard copy of same is to be submitted to O/o SE(O&M) MHPS Madhikheda, Distt Shivpuri only after opening of tender. It should be issued after tender publishing date specifying the tender no. in prescribed format. Notarized affidavit with addition/Deletion/ Correction (Tempering) are liable for rejection.
9. The clause no. 1.36 of Instructions to Bidders "Reverse/Forward Auction" is Not Applicable for instant tender.
10. The clause no. 1.40 of Instructions to Bidders "Quantity Distribution" is Not Applicable for instant tender.
11. The clause no. 1.42 of Instructions to Bidders "Distribution of Work & Services" is Not Applicable for instant tender.
12. The clause no. 1.44 of Instructions to Bidders "Abnormally High / Low Quotes by the Bidders" is Applicable for instant tender.

"SAVE ELECTRICITY"

Corporate Office: Madhya Pradesh Power-Generating Company Limited, Block No. 9, Shakti Bhawan, Vidyut Nagar, Rampur,  
Jabalpur (M.P) 482008, Website: mppgenco.nic.in

CIN - 40109MP2001SGC014882 GSTIN - 23AADCM472A177

13. The undertaking as per Annexure-IV of SBD (clause no. 1.52 i.e. Corrupt practice/ Fraudulent Practice of Instructions to Bidders) is to be uploaded/ submitted with techno-commercial offer for observing fair and ethical practices by all the bidders except Government Organizations and/or Public Sector Undertakings.
14. The clause no. 2.4 of General Conditions of Contract "Price Variation" is Not Applicable for instant tender.
15. The clause no. 2.38 of General Conditions of Contract "Royalties & Patents (Annexure –X)" is Not Applicable for instant tender.
16. In SBD new clause namely "LIMITATION OF LIABILITY:" is added vide clause 2.86 which reads herewith as follows:  
Except in cases of criminal negligence or willful misconduct or except otherwise provided for specifically elsewhere in tender document: -
  - i) The contractor shall not be liable to the owner, whether in contract, tort or otherwise for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits, provided that this exclusion shall not apply to any obligation of the contractor to pay liquidated damages/penalty to the owner and
  - ii) The aggregate liability of the contractor to the owner, whether under the contract in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the contractor to indemnify the owner with respect to patent infringement.
17. The check list of formats/ documents as per Annexure-XV of SBD– The duly filled check list of formats /documents issued for subject tender is required to be uploaded/ submitted with techno-commercial offer.
18. The bidding process is a single bid two envelop process consisting of two parts: -  
Techno Commercial Bid: - To be submitted Online Only  
Price Bid: - To be submitted Online Only
19. Techno-Commercial Bid: -Bidder must positively complete e-tendering procedure at [www.mptenders.gov.in](http://www.mptenders.gov.in). Bidder shall have to submit the following documents online in the website:-
  - a. Their complete techno-commercial offer containing detailed material description, specification and all commercial terms & conditions. This document should not contain any price part. Techno-commercial information in the form of questionnaire and schedules (downloaded from website and filled as per instructions). The online submission of duly filled questionnaire and schedules is mandatory. Terms & conditions filled in questionnaire shall be treated as final. The requisite documents as per NIT i.e. credential & PQR related to financial status/ experience for work of tendered items and as per questionnaire should only be uploaded.
  - b. "The bidders not submitting all the desired documents as per NIT/Tender document at the time of bid submission shall not be allowed to submit documents subsequently and their bids shall be rejected on account of incomplete documents."

**LIST OF DOCUMENTS. :**

- a. Documents related to tender fee (Refer clause No 3 of NIT).
- b. Documents related to EMD. (Refer clause No 4 of NIT).
- c. Documents related to PQR of respective tender (Refer clause No.5 of NIT).
- d. Undertaking as per Annexure-III of SBD (Refer clause No.6 of NIT).
- e. Undertaking as per Annexure-IV of SBD (Refer clause No 13 of NIT)
- f. Affidavit for no banning / black listing/delisting on duly notarized non judicial stamp paper of Rs.200/- as per Annexure-IX of SBD. (Refer clause No 8 of NIT)
- g. Tender acceptance letter as per Annexure-XI of SBD (Refer clause No.7 of NIT).
- h. Checklist of formats /documents as per Annexure -XV of SBD. (Refer clause No 17 of NIT)

"SAVE ELECTRICITY"

---

Corporate Office: Madhya Pradesh Power-Generating Company Limited, Block No. 9, Shakti Bhawan, Vidyut Nagar, Rampur,

Jabalpur (M.P) 482008, Website: [mppgenco.nic.in](http://mppgenco.nic.in)

CIN = 40100MP2001SGC014882 GSTIN = 23AADCM4472A177

*Documents electronically submitted by the bidder on tender portal shall be treated as final document for processing of the tender and placement of order.*

*The Physical copy of above documents wherever indicated is to be submitted within stipulated time by the bidder after opening of bid only.*

FURTHER, NO CORRESPONDENCE SHALL BE DONE WITH THE BIDDERS REGARDING NIT/TENDER DOCUMENT THROUGH SHORTFALL WINDOW ON E-TENDERING WEBSITE & OFFERS RECEIVED WITH INADEQUATE DOCUMENTS, SHALL BE SUMMARILY REJECTED.

20. **Price bid:** - Bidder shall have to download the Price bid format from website and after filling prices of quoted tendered items; the same is to be uploaded as per instructions therein. Physical submission of price bid will not be considered. The price bid of techno-commercially qualified bidder shall be opened online at the notified date at [www.mptenders.gov.in](http://www.mptenders.gov.in). Bidders can view information of date of price bid opening on web-site.
21. MPPGCL reserves the right for extension of due date of opening of techno-commercial bid.
22. MPPGCL reserves the right to accept or reject any or all tenders without assigning any reason whatsoever.
23. Any change/modifications/alteration in the tender documents shall not be allowed and such tender shall be liable for rejection.
24. In case of any discrepancies found between the tender document uploaded by the bidder and the tender documents uploaded by the tender inviting authority, the later shall prevail. No claim/ appeal on this account will be entertained or given cognizance.
25. Tenderers will be solely responsible for the correctness/genuineness of the downloaded tender documents from the website. If the offer submitted through the downloaded tender documents, which are incomplete or with changed contents, the offer will be summarily rejected.
26. For amendment/due date extension/clarification /update if any, please visit [www.mptenders.gov.in](http://www.mptenders.gov.in) website regularly. In case of any bid amendment /due date extension/ clarification/update, the responsibility lies with the bidders to collect the same from the web site [www.mptenders.gov.in](http://www.mptenders.gov.in) or from the office of undersigned prior to deadline of submission of bid. MPPGCL shall have no responsibility for any delay/omission on the part of the bidder.
27. **Eligibility Criteria for Joint Venture Company:-**  
Participation through Joint Venture Company, (Termed herein under as JVC) shall be applicable with terms and conditions as below:
  - a. The JVC should be incorporated under Companies Act, 1956 and number of Partners shall be limited to two (02) Nos. only. The minimum stake holding of any of partners in JVC should be 26%.
  - b. The JVC by itself should be in the business at least for last 3 years ending on the initial date of opening of bid of tender.
  - c. The GST registration and EPF registration (if required) should be in the name of JVC itself.
  - d. The JVC fulfilling conditions (i), (ii) & (iii) above, should also meet any of the following conditions: -
  - e. The JVC by itself should meet the financial and past experience criteria.
  - f. The JVC by itself should meet any one i.e. either financial or past experience criteria. AND
  - g. Any one of the partners of JVC (of Indian Origin only) should meet the other criteria (i.e. either financial or past experience criteria) which have not been met by the JVC by itself.
  - h. The JVC cannot rely on any other arrangement such as Consortium or supporting company of the JV partner for meeting technical experience criteria.
  - i. An independent undertaking in addition to "Undertaking of Joint Undertaking" from the Joint Venture Partner, based on whose experience the JV has qualified, shall be submitted stating that they shall maintain minimum 26% shareholding in the JV from date of opening of bid till the completion of the contract period.
  - j. The JVC and the Joint Venture partners shall be jointly and severally liable for the execution of the contract and an undertaking to this effect shall be submitted along with the PQR document.
  - k. The JV partners shall not be allowed to bid Independently or as a member in a Consortium/Other JV for this bid.

"SAVE ELECTRICITY"

Corporate Office: Madhya Pradesh Power-Generating Company Limited, Block No. 9, Shakti Bhawan, Vidyut Nagar, Rampur,

Jabalpur (M.P) 482008, Website: [mppgenco.nic.in](http://mppgenco.nic.in)

CIN = 401009MP2001SGC014882

GSTIN = 23AADCM4472A177

- I. In case of award of contract, JVC partner who meet out the experience criteria shall be required to submit a Bank Guarantee for an amount equal to 1% of the total order value in addition to the Contract Performance Guarantee of 10% of total order value to be furnished by the JVC.
- m. JVC has to submit the true copies of Article of Association including the details of directors of their respective board, percentage share of the JV partners in the Company and share holding pattern of each of the Partners, duly certified by the competent authority of JVC, as on the date of submission of bid.
- n. JV partners should invariably submit the self certified copy of latest income tax returns.
- o. MPPGCL reserves the right to seek additional information as it may deem fit to satisfy itself of the eligibility of the bidder.

28. Instructions for participation of bidders from a country which shares a land border with India

- I. Any bidder (including the term "tenderer", 'consultant' or 'service provider' in certain contexts) from a country which shares a land border with India will be eligible to bid in the Tenders covered in the NIT only if the bidder is registered with the Competent Authority. (Ref. Ministry of Finance Gol Order No. 6/18/2019 –PPD Dtd.23.07.2020 uploaded with this NIT).
- II. "Bidder from a country which shares a land border with India" for the purpose of this clause means:-
  - a. An entity incorporated, established or registered in such a country; or
  - b. A subsidiary of an entity incorporated, established or registered in such a country; or
  - c. An entity substantially controlled entities incorporated, established or registered in such a country; or
  - d. An entity whose beneficial owner is situated in such a country; or
  - e. An Indian (or other) agent of such an entity; or
  - f. A natural person who is a citizen of such a country; or
  - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- III. The beneficial owner for the purpose of II above will be as under:
  - 1) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation-

- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company.
- b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements.
- 2) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership.
- 3) In case of unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
- 4) Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
- 5) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- IV. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
- V. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.
- VI. Certificate to be submitted by the bidders in compliance of above:

"SAVE ELECTRICITY"

Corporate Office: Madhya Pradesh Power-Generating Company Limited, Block No. 9, Shakti Bhawan, Vidyut Nagar, Rampur,

Jabalpur (M.P) 482008, Website: mppgenco.nic.in

CIN = 401004P2001SGC014882 GSTIN = 23AADCM4472A177

Certificate for Tenders : "I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country" OR  
" If from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

Certificate for Tenders for Works involving possibility of sub-contracting

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries"; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

29. Please refer Clause (2.76) "Jurisdiction" of General Conditions of the Contract in Standard Bid Document (SBD) vide which any dispute or difference, arising under, out of, or in connection with this Tender/ Contract shall be subject to exclusive jurisdiction of competent court of Madhya Pradesh at Jabalpur only.

30. Regarding tender details: - Any queries relating to the tender document contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person in working day from 10.00 Am to 06.00 PM as indicate below: -

Er. Rohit Tripathi, AE (P&W), Mob: 9425826028

Er. Mukesh Assia, AE(MM) Mob. No. 9425824115

Note - Any queries relating to the process of online bid submission or queries relating to MP Tenders Portal in general may be directed to the 24x7 MP Tenders Portal Helpdesk.

*Mson*  
(Manoj Kumar Soni)

SUPERINTENDING ENGINEER (O&M)  
MHPS, MPPGCL, Madhikheda, Shivpuri

"SAVE ELECTRICITY"

Corporate Office: Madhya Pradesh Power-Generating Company Limited, Block No. 9, Shakti Bhawan, Vidyut Nagar, Rampur,  
Jabalpur (M.P) 482008, Website: mppgenco.nic.in

CIN = 40109MP2001SGC014882

GSTIN = 23AADCM4472A177



MADHYA PRADESH POWER GENERATING CO. LTD  
(GoMP Undertaking, CIN-U40109MP20015GC0148820)  
OFFICE OF THE SUPERINTENDING ENGINEER (O&M)  
MADHIKHEDA HYDEL POWER STATION,  
MADHIKHEDA P.O. – NARWAR, DISTT. SHIVPURI – 473880 (M.P.)  
website: [www.mppgcl.mp.gov.in](http://www.mppgcl.mp.gov.in) E- mail: [semhps@gmail.com](mailto:semhps@gmail.com) Phone No: 9425318160

No. 1500-597/WT-01/2026\_MPPGC\_479303\_1/48

Madhikheda, Date: 16.04.2026

**:: TECHNICAL SPECIFICATION / SCHEDULE ::**

**SUB:** Work opportunity maintenance of 3x20 MW units & their associated auxiliaries/equipment including under water parts of U#2 at MHPS, MPPGCL, Madhikheda, Shivpuri for the year 2026.

[1] The subject material is required as per the Technical Specification / schedule detailed here under:

**: PRICE SCHEDULE:**

S. No.	Particular	Qty.
1	Work for opportunity maintenance of 3x20 MW units & their associated auxiliaries/ equipment including under water parts of U#2 at MHPS, MPPGCL, Madhikheda, Shivpuri for the year 2026.	01 Job

*M. Soni*  
(Manoj Kumar Soni)  
SUPERINTENDING ENGINEER (O&M)  
MHPS, MPPGCL, Madhikheda, Shivpuri

**Price breakup for opportunity maintenance of 3x20 MW MHPS for 2026**

**A Turbine**

Sr. No.	Particular	Qty	Price break up
1	<b>Water Path &amp; under water Parts:</b> Dewatering of water ways & inspection of underwater parts of spiral casing, runner, draft tube, penstock for any cavitations, erosion or any other damage, if additional pump sets are required for dewatering of spiral casing & draft tube then the same may be arranged by the contractor. Check condition of paint of underwater parts. During inspection if any cracks found for any water leakage same shall be attended by making 'V' groove, than welding the crack joint. After welding making smooth surface and testing with DPT.	Unit#2	3.80
2	<b>Penstock Gate (Intake Gate):-</b> General Servicing of Intake gate, sealing & lifting of intake gate by deployment by divers and labour including material required to complete the job.	01 Job	2.69
3	<b>DT gates:</b> Lowering, sealing & lifting of DT gates of unit no. 2. sealing by deployment of divers and labours including material for the job if required. Each unit has 02 nos. DT Gate (If required)	Unit#2	4.58
4	<b>Guide Apparatus:</b> Checking and adjustment of Guide vane bedding top, bottom clearances (This activity to be done under the supervision of ex- BHEL Engineer not below the rank of Ex- DGM)	Unit#2	17.99
5	Door Seal replacement of MIV of U#2: as per scope of work	Unit#2	3.67
6	<b>Painting of Spiral of U#2:</b> Painting of spiral casing by class 'B' primer coat (1 coat) of inorganic zinc silicate (preferably airless spray) or alternatively, 2 coats of zinc rich primer (containing not less than 85% zinc on dry film) to give dry film thickness of 70 + 5 microns and finish coat of solvent less coal for epoxy paint using airless spray, to provide dry film thickness of 150+5 microns per coat (2 coats). The total thickness of all the coats including primer coating should not be less than 350 microns. This includes expenses on mobilization & demobilization of equipment. Before painting the surface, preparation shall be done by appropriate hand and power tool cleaning any heavy layer of rust should be removed by chipping. Visible oil, grease, dirt & other foreign material to be cleaned using solvent like clean mineral spirit, Xylol or white gasoline. After hand & power tool cleaning, loose dust and debris of the surface should be cleaned. After the surface preparation, the primer & finishing coats shall be carried out as provided above for painting.	Unit#2 (450 sq m)	16.39
7	<b>Top Cover &amp; Pit liner:</b> Turbine top cover studs checking & tightening. Replacement of broken Studs & Nut. Clean Turbine Pit, remove gravel & sand etc. Checks for looseness, corrosion & cracks. Water Resistance Painting of above top cover area & turbine pit. (Fasteners & Paint is in contractors scope).	All three units	1.13
8	<b>TGB/GGB/thrust Bearing, housing:</b> Drain of TGB & GGB Housing oil from chamber. Thorough cleaning of TGB & GGB housing chamber. dismantle of GGB oil vapour seal. Checking all the RTD, DTT and TSDs, replace damaged one. Disconnect RTD, DTT & thermostat probe from the TGB, GGB & Thrust bearing Pads safely. Checking clearance and any play in TGB & GGB pads of Guide bearing. Inspection of all Pads after taking out from housing, checks for any fatigue, wear in Pads. Check the conditions of rubbing surface of guide bearings. Clean the surface and polish it with help of the chalk powder. Checking surface of babbit material for secouring, Hard spots or cracks. Blue matching, Scraping, Polishing and finishing of Pads, replacement if required. Reassembly of guide bearing pad and set clearance as per drawing. Connection of RTD, DTT & thermostat probe in bearing Pads. Adjust the clearance by moving the segment with the help of adjusting bolt. Checking all fasteners & packings of housing, replacement if required. Checking of condition of thickness of white matel of guide & thrust bearing pads. Reassembly of guide bearing pads and vapour seals after adjustment of bearing clearance & connection of RTD, DTT thermostat probes in bearing pads. Filling of oil after filtration.	All three units	11.32

9	<b>TGB &amp; GGB Coolers:</b> (06 TGB & 06 GGB cooler in each unit) Cleaning of TGB coolers through wire brush & servicing. Hydraulic Testing of TGB & GGB Coolers at 10 kg/cm <sup>2</sup> and leakage arresting (12 Nos cooler/unit).	All three units	4.87
10	<b>PP set:</b> Complete servicing of inside & outside cleaning of PP Set. Cleaning of all oil pipe lines after dismantling through acid than assembly of the same. Filling of oil after filtration in oil system. Servicing of Idler & safety valve. Check the condition & oil leakage from governing oil pump, if found, replace the mechanical seal, bearing & gasket etc.	All three units	1.13
11	<b>Valves:</b> Servicing/repairing of all types Valves & NRV's of Oil & Water Lines (i.e. penstock drain valve, spiral casing drain valve, MIV by-pass valves (manual isolating), vacuum break valve, LP oil lines valves, cooling water lines valves etc. (30 Valves/unit), replacement of defective valve if required.	All three units	1.97
12	Checking & tightening of nut-bolts, insulating bolts, dowels, foundation bolts and replacement of damaged/crack nut bolts and insulating bolts and dowels of TG set. Ensure tack weld/locking bar after proper tightening of all fasteners & dowels.	All three units	2.08
<b>B GENERATOR</b>			
1	Work of dismantling of Generator air guide, cleaning of stator and rotor winding and tightening of packers/wages.	3 Nos	9.04
2	Removal of 02 nos. opposite side rotor poles for deep cleaning of stator winding. Rotor Poles are to be dismantled and assembly of same after completion of cleaning & checking work Generator.	3 Nos	13.86
3	Cleaning of brush gear, slip rings and top dome by air & recommended solvents. Checking of carbon brushes & replacement if required, Tightening of Brush holders. Check for any grooves, roughness, high points on slip rings, if found, rectification of the same.	3 Nos	1.50
4	Servicing & cleaning of generator air coolers. Cleaning of inside & outside of each cooler with help of nylon brushes & it's pipe line by opening of its flange, bend and valves separately. Pressure testing of cooler tubes for leakage. plugging of leaking tubes if required & as directed by the Engineer-in-charge. Fixing of coolers. (06 nos Generator air cooler per unit)	18 Nos	2.85
5	<b>Painting:</b> Two coats of painting specially on overhang portion of stator winding/pole to pole joints of rotor winding and current carrying lead by dr beck varnish/becktol red.	3 Nos	0.60
<b>C BATTERY &amp; BATTERY CHARGER PANELS (220V &amp; 48V)</b>			
1	Cleaning servicing and tightening of connection of battery terminals of 220V station battery, 48 V PLCC battery and UPS battery, and their charger panels.	1 Nos	0.53
2	Measuring of specific gravity & voltage of all battery cells of 220V battery bank, 48 V PLCC battery bank, topping-up/replacement of electrolyte & distilled water, if required.		
3	Cleaning of 220V DCDB panel and cleaning & servicing of all isolating modules, both incomer modules & bus coupler modules by air & recommended solvents.		
<b>Total</b>			<b>100.00</b>

EE (O&M)  
MHPS, Shivpuri

A.E. (Elect. Maint)  
MHPS, Shivpuri

A.E. (Mech. Maint)  
MHPS, Shivpuri

Scope of opportunity maintenance work of 3x20MW MHPS for Year 2026

**Mechanical Maintenance Part:**

**(A) TURBINE**

**1. Water Path & under water Parts:**

- i. Dewatering of water ways & inspection of underwater parts of spiral casing, runner, draft tube, penstock for any cavitations, erosion or any other damage, if additional pump sets are required for dewatering of spiral casing & draft tube then the same may be arranged by the contractor.
- ii. Check condition of paint of underwater parts. During inspection if any cracks found for any water leakage same shall be attended by making 'V' groove, then welding the crack joint. After welding making smooth surface and testing with DPT.
- iii. Check hollowness sound in spiral casing and draft tube to ascertain concrete position behind linear plates.
- iv. Check condition of Penstock & Spiral drain pipe, the damage due to erosion and rust to be rectified.
- v. Checking clearance between stationary & rotating labyrinths.
- vi. Checking clearance of GV bedding and top Bottom.

**(NOTE: This work is to be done under the supervision of ex- BHEL Engineer not below the rank of Ex- DGM.)**

**2. Penstock Gate (Intake Gate):**

General servicing & Operations (lowering and lifting of intake gate and sealing of intake gate by deployment of divers, crane operator and labours including material required to complete the job. There is one intake gate for all three units. Beehives should be removed before starting the work.

**3. DT gates:**

Operations (lowering and lifting of DT gates and sealing of intake gate by deployment of divers, crane operator and labours including material required to complete the job. There are two DT gates for one unit. Beehives should be removed before starting the work.

**4. Guide Apparatus:**

- i. Checking and adjustment of Guide vane bedding clearances as per drawing.
- ii. Checking and adjustment of Guide vane top, bottom clearances as per drawing.

Note: This activity to be done under the supervision of ex- BHEL Engineer not below the rank of Ex- DGM.

**5. Door Seal replacement of MIV of U#2:**

- i. Dismantling of existing MIV door seal.
- ii. Checks clamping strip, Nut Bolts & washers etc. if found damaged, replace it.
- iii. Punching of holes in new door seal & clamping plate as per actual.
- iv. Mounting of new MIV door seal properly. Ensure no any water leakages from it.
- v. Checks oil leakages from MIV servomotor cup seal, if found damaged, replace it.

**6. Painting of Spiral of U#2:**

Painting of spiral casing by class 'B' primer coat (1 coat) of inorganic zinc silicate (preferably airless spray) or alternatively, 2 coats of zinc rich primer (containing not less than 85% zinc on dry film) to give dry film thickness of 70 + 5 microns and finish coat of solvent less coal for epoxy paint using airless spray, to provide dry film thickness of 150+5 microns per coat (2 coats). The total thickness of all the coats including primer coating should not be less than 350 microns. This includes expenses on mobilization & demobilization of equipment. Before painting the surface,

preparation shall be done by appropriate hand and power tool cleaning any heavy layer of rust should be removed by chipping. Visible oil, grease, dirt & other foreign material to be cleaned using solvent like clean mineral spirit, Xylol or white gasoline. After hand & power tool cleaning, loose dust and debris of the surface should be cleaned. After the surface preparation, the primer & finishing coats shall be carried out as provided above for painting.

**7. Top Cover & Pit liner:**

- i. Turbine top cover studs checking & tightening.
- ii. Replacement of broken Studs & Nut (supply of fasteners is in contractors scope).
- iii. Clean Turbine Pit, remove gravel & sand etc.
- iv. Water Resistance Painting of above top cover area & turbine pit.

**8. TGB/GGB/thrust Bearing, housing:**

- i. Drain of oil from TGB/TGB Housing.
- ii. Thorough cleaning of TGB & GGB housing.
- iii. Dismantling of GGB oil vapour seal assembly and its oil & air pipes.
- iv. Checking all the RTD, DTT and TSDs, replace damaged one.
- v. Disconnect RTD, DTT & thermostat probe from the bearing Pads safely.
- vi. Checking clearance and any play in pads of Guide bearings.
- vii. Inspection of Pads after taking out from housing, checks for any fatigue, wear in Pads.
- viii. Check the conditions of rubbing surface of guide bearing, clean the surface and polish it with help of the chalk powder.
- ix. Checking surface of babbit material for scouring, Hard spots or cracks.
- x. Blue matching, Scraping, Polishing and finishing of Pads, replacement if required.
- xi. Reassembly of guide bearing pad and set clearance as per drawing.
- xii. Connection of RTD, DTT & thermostat probe in bearing Pads.
- xiii. Adjust the clearance by moving the segment with the help of adjusting bolt.
- xiv. Assembly of above all in reverse order.

**(NOTE: This work is to be done under the supervision of ex- BHEL Engineer not below the rank of Ex. DGM.)**

**9. TGB &GGB Coolers:**

- i. Dismantle of TGB & GGB coolers from Cooling header.
- ii. Cleaning of TGB & GGB coolers through wire brush & servicing.
- iii. Hydraulic Testing of all TGB & GGB Coolers at 10 kg/cm<sup>2</sup> and leakage arresting.
- iv. Placing of proper gaskets accordingly.
- v. Assembly of TGB housing.
- vi. Assembly of GGB coolers after cleaning of housing.
- vii. Checking all fasteners & packings of housing, replacement if required.

**10. PP set:**

Complete servicing & cleaning of PP sets including servicing of Idler valve. Complete inside and outside cleaning of PP sets after emptying it, cleaning of oil pipe lines after dismantling and then reassembling of pipe line. Filling of oil after filtration, pressure receivers and governing oil pumps, filter elements. Servicing of, idler valves, and safety valve, adjustment of idler valves as per requirement. Adjustment of pressure and level switches of PP set & pressure receiver. Tightening of clamps and servicing of associated pipe line. Check oil leakage from GOP pump, if found leakage replace the mechanical seal.

**11. Valves:**

Servicing/repairing of all types Valves & NRV's of Oil & Water Lines [i.e. penstock drain valve, spiral casing drain valve, MIV by-pass valves (manual isolating), vacuum break valve, LP oil lines valves,

- cooling water lines valves etc. (30 Valves/unit). Passing of valve should be completely arrested with the help of blue matching. Replacement of defective valve if required.
12. Checking & tightening of nut-bolts, insulating bolts, dowels, foundation bolts and replacement of damaged/crack nut bolts and insulating bolts and dowels of TG set. Ensure tack weld/locking bar after proper tightening of all fasteners & dowels.

### **ELECTRICAL MAINTENANCE PART**

#### **(B) GENERATOR:-**

1. Work of dismantling of Generator air-guide, cleaning of stator and rotor winding & tightening of packers and wages. :-
- i. Dismantling of aluminium strip.
  - ii. Dismantling of Generator Top Dome.
  - iii. Dismantling of Chequered plates.
  - iv. Dismantling of top and bottom air guides.
  - v. Cleaning of stator and rotor winding with the help of liting cloth, LECTRA Clean, CRC.
  - vi. Cleaning of pole to pole joint.
  - vii. Checking of insulating blocks of rotor current carrying lead, if find damaged, than replacement of the same. (The material shall be arranged by MPPGCL)
  - viii. Tightening of rotor pole keys.
  - ix. Tightening of studs nut bolts.
  - x. Cleaning of Rotor fan segments.
  - xi. Checking of stator winding IR Value and achieve as per norms/ Manual.
  - xii. Assembly of above all in reverse order.
  - xiii. Checking, tightening & replacement of fasteners as required in assembly of air guide and chequered plates. Cleaning of chequered plate with suitable agent and painting the chequered plats.
  - xiv. Checking of stator winding IR Value and achieve the same per norms/ OEM Manual.
  - xv. Assembly of above all in reverse order.
2. Removal of 02 nos. opposite side rotor poles for deep cleaning of stator winding. Rotor Poles are to be dismantled and reassembly of same after completion of work.
- i. Removal of insulation tap at the pole joints.
  - ii. Di soldering of pole-to-pole joints from top and bottom side (By Pole Joint expert).
  - iii. Removal of damper winding.
  - iv. Removal of pole locking keys.
  - v. Removal of Rotor poles with the help of EOT crane & pole removal device and placing the removed rotor poles in the service bay.
  - vi. The necessary materials required for work (Asbestos Cloth, liquid Soldering Flux, Soldering iron, gas cutting set, oxygen & acetylene gas cylinders, insulation washers, insulation sleeves, adaptor studs, Mica Tap, Glass Tap, and others) shall be arranged by the contractor.
  - vii. After stator cleaning, assembly of poles, fixing of pole keys, soldering of pole-to-pole connections (as per given instruction in OEM drawing).  
The soldering (60% lead & 40% Sn) materials shall be arranged by the contractor. The insulation/impedance of poles to be checked if found below normal than improvement of the same. The pole impedance before and after will be checked in presence of MPPGCL. The Impedance test kit shall be arranged by contractor.  
Note: Any other work & required material to carry out the above activity which is not mention above will be in contractor scope.

3. **Cleaning of brush gear, slip rings and top dome by air & recommended solvents. Checking of carbon brushes & replacement if required, Tightening of Brush holders. Check for any grooves, roughness, scouring, high points on slip rings, if found, then rectification of the same.**

- i. Dismantling of carbon brush and brush holders.
- ii. Cleaning of top and bottom slip rings with the help non-linting cloth dipped in white sprit/LECTRA clean and finally spray the treated surfaces with insulation resistance improving chemical CRC-2-26.
- iii. Cleaning of slip rings holding insulated support and blocks.
- iv. Cleaning of slip ring housing.
- v. Check for any grooves, roughness, scouring/high points on slip rings, if found, then rectification of the same with the help of fine grinding stone.
- vi. Cleaning of carbon dust inside/outside of slip-ring housing.
- vii. Assembly of carbon brush and brush holders.
- viii. **Checking of Insulation resistance and achieve the value as per norms/ OEM Manual.**
- ix. Cleaning of Mechanical/Hydraulic over speed device. Checking for smooth operations.

4. **Servicing and cleaning of Generator Air coolers:**

This includes removal of Generator air coolers from stator frame, dismantling of gen. air coolers by removing both side water boxes, cleaning of cooler tubes with help of nylon brush and cotton cloth, painting with epoxy inside water box, assembly of air coolers and testing for water leakage at  $9 \text{ Kg/cm}^2$ , cleaning of cooler pockets of stator frame before assembly of coolers, assembly of generator air coolers & its pipe lines.

5. **Painting on stator winding overhang portion/pole to pole joints of rotor/current carrying lead.**

- i. Painting specially on overhang portion of stator winding/ pole to pole joints of rotor winding and current carrying lead by dr beck varnish/becktol red as directed by OIC/EIC.

**(C) BATTERY & BATTERY CHARGER PANELS (220V & 48V)**

- i. Cleaning servicing and tightening of connection of battery terminals of 220V station battery, 48 V PLCC battery and UPS battery, and their charger panels.
- ii. Measuring of specific gravity & voltage of all battery cells of 220V battery bank, 48 V PLCC battery banks, topping-up/replacement of electrolyte & distilled water, if required. Apply petroleum jelly on terminals.
- iii. Cleaning of 220V DCDB panel and cleaning & servicing of all isolating modules, both incomer modules & bus coupler modules by air & recommended solvents.
- iv. Check & clean all components in battery charger by dry air blowing.
- v. Check tightness of all connections of battery connectors, Battery charger terminals and DCDB.

*Mson*  
(M K Soni)

Superintending Engineer(O&M)  
MHPS, MPPGCL, Shivpuri

**SPECIAL TERMS & CONDITIONS**

**1. TOOLS, TACKLES AND MACHINES: -**

**A) IN THE SCOPE OF CONTRACTOR:** The Contractor shall provide following tools-tackles and machines for the work, at his own cost. All the tools and tackles invariably get be checked by EIC:-

- i. All size & type of open & ring spanner sets, Wrenches, Pliers, Puller, Fixers, Socket Wrench set.
- ii. Drilling machine, grinding machine, die set, Tap set, Files (Flat, Round & Triangular).
- iii. Grease Gun, Rotary barrel pump & up to 1 HP monoblock pump.
- iv. Gas cutting set, Oxygen cylinder, Acetylene gas cylinder, welding machine, whenever required.
- v. Blower & Vacuum Cleaner, spray paint gun.
- vi. Hammer of different sizes, Chisels, Allen-Key sets, Bench Vice, shim cutter, Centre Punch, Hole Punch (M20, M24, M30).
- vii. Screw driver set, Soldering Iron, Hexa frame.
- viii. Pipe & Slide Wrenches (12", 18", 36" & 42" etc.).
- ix. Oil Cane/Bucket, Polythene sheet.
- x. Any other required T&P which is needed at site according to scope of work shall be in Contractor's scope.
- xi. For execution of work, if approach/ working platform/ scaffolding is required, that shall be arranged by the contractor on his own cost.
- xii. Minor/Major repairs like threading, machining etc., if required, shall be arranged by the contractor at his own cost.

**B) IN THE SCOPE OF MPPGCL:-**

- a. Special Tools, Fixtures, tackles initially supplied by the manufacturer of the equipment which are not in scope of Contractor.
- b. EOT crane, Oil centrifuging machine as per availability.
- c. Compressed air, service water, 3 phase AC Power at one point in the power house building and pumps for dewatering shall be provided free of charge.
- d. Major spares like special fasteners, pipes, valves, bearings, pump shaft, silica gel etc. shall be arranged by the MPPGCL.

Special T & P if available shall be provided by MPPGCL on returnable basis free of charge basis, however in case of any theft/damage to MPPGCL, T&P, the contractor will have to return/replace the same at his own cost. If contractor fails to return/replace the same, the cost of theft/damaged item will be deducted from the contractor's bill.

**2. Scope of supply:-**

- i. All consumables materials provided by the contractor to be checked by EIC/OIC before starting of work. All the consumables (quantity mentioned in annexure- 1) like cotton waste, cotton cloth, general purpose grease, white sprit, petrol, diesel, CTC,CRC, PVC, Teflon tape, Mica tape, glass tape, smoke grey paint, other colour paints, thinner oil, tarpaulin 10m x 6m, 'O' ring of different size, Epoxy paint, primer, Brazing rods, different size of Nut-Bolt, Washers, adhesives, , different size of gland dori, different size of champion water and oil gaskets, , different size champion metallic gasket, welding electrodes 7018, cast iron electrode, SS electrode, rustoline. Different size neoprene rubber sheet (make Indian rubber product Haridwar) , different size rubber cord, cup Seals (make Indian rubber product Haridwar) Electra clean/Acetone, , M-seal, Araldite, Hexablade, grinding wheel 4", cutting wheel 4" emery cloth & paper of required grain

sizes, brushes, clamps, cleats, cable lugs, Mica sheet and all other consumables/ material which is required during AOH/ opportunity maintenance to complete the work & general fasteners etc. shall be arranged by the contractor.

- ii. Checking the condition of back plate/ pivot bar of Bearing Pads and adjustable bolt and proper machining, if found essential. If major groove found in back plate then it should be replaced by new fabricated plates with proper heat treatment. Other small nature of work which are not specifically mentioned in scope of work and are essential to carry out, to complete such activity, shall be in the scope of contractor.

**3. MEASURING INSTRUMENTS:-**

The contractor shall provide following measuring instruments at his own cost:-

- a. Vernier Callipers, inside/outside micrometre.
- b. Spirit level.
- c. 'V'-blocks.
- d. Transparent rubber tube.
- e. Measuring Tape, steel rule, paint thickness gauge, Height Gauge.
- f. Dial indicators, SS Filler gauge (12", 8", 4").
- g. Hydraulic Pressure testing pump for cooler testing.
- h. Any other instrument related to job may be assumed in contractor's scope.

**4. PERMIT TO WORK: -**

The contractor/his workman shall start the work only after receipt of permit to work on the equipment. The necessary permit shall be arranged by MPPGCL Engineer/Supervisor. After completion of work the contractor's staff will return the permit to the competent authority for charging/operation.

**5. DAILY RECORD OF WORK: -**

The firm will have to submit PERT chart before the start of work. The firm will have to keep daily record of work carried out by him, duly countersigned by the site-in-charge or his authorized person/officer.

**6. PREPARATION FOR START OF WORK: -**

The contractor shall deploy sufficient man power, tools & tackles, consumables, scaffolding plate form etc. as required for the work. The contractor shall collect essential spares from store, transport items to job place and keep those in his custody. The equipment shall be handed over to the contractor for the work only after ensuring that the preparation is satisfactory.

**7. MAN POWER DEPLOYMENT: -**

- i. The contractor has to engage sufficient no. of skilled, semiskilled and unskilled experience workers along with two nos. supervisors. Out of the two supervisors one should have at least Diploma in Mechanical Engineering with **experience of mechanical works** and other should have Diploma in Electrical Engineering with **experience of electrical works** of power plant, to carry out the Opportunity maintenance works of units as detailed in scope of works within time limit. The certificate in respect of qualification and experience of supervisors shall invariably be submitted by contractor prior to start of work. The electrical supervisor should be present during execution of electrical works & mechanical supervisor should be present during execution of mechanical work. In absence of supervisors, Rs. **1000/day/supervisor** shall be deducted from contractor's bill. Engineering supervision required by experts for any job as decided by engineer in charge, shall be arranged by the contractor at his own cost. The whole work as detailed in scope of work shall be carried out as per instructions of the OIC/EIC of work. As per requirement of the work, workers will have to be engaged for extended hours of normal working hours (i.e.08:00 Hrs to 17:00 Hrs) to complete the work within the specified time schedule. The extra/ overtime wages arising out of this, as per prevailing labour laws/ Govt. rules shall be payable by the contractor to the workers at his own cost. The payment of the workers must be certified by the site-in-charge of the work.

- ii. Where supervision of Ex-BHEL Engineer is required, then contractor shall provide the services of Ex-BHEL Engineer (not below the Rank of DGM). The firm has to submit BHEL Person identity card.
- iii. If any person engaged by the contractor is found lacking in technical knowledge or not working as per instruction or misbehaving with MPPGCL employees, as per instruction of OIC/EIC such person shall be immediately removed from the site with replacement of suitable person.
- iv. It is the responsibility of the contractor to ensure that the workers engaged for the works are honest, non-terrorist, fit and quite able for entry to our factory/place of work.
- v. The contractor should ensure that the work does not suffer due to shortage of manpower at any time and work should be completed satisfactory within time prescribed by OIC/EIC. In case of extra manpower is required for completion of work in time, the same shall be arranged by the contractor at his own cost. This will be contractor's responsibility to get the attendance of manpower verified daily by the engineer-in-charge or his authorized representative and maintain attendance register and to be produce on demand.
- vi. The operator for 100/20 Ton EOT will be arranged by contractor, during the operation if any maintenance arises due to mishandling of equipment, then it would be carried out by contractor.
- vii. The contractor has to provide a diving team for work of sealing of gates. The contractor has to ensure following points regarding diving work: -
  - (a) The diver should be competent, experienced and has valid diving license. For this, the contractor must submit documentary proof of certificate issued by recognized organisation.
  - (b) The diver must submit his medical fitness certificate and physical fitness certificate.
  - (c) The diver must submit their deep diving (more than 30 meter) certificate.
  - (d) The contractor should ensure suitable separate insurance for diving team for deep diving (more than 30 meter) in underwater work.
  - (e) The contractor shall ensure complete safety of the diver during sealing of intake and DT gates, including protection against crocodiles and other aquatic hazards, and shall provide all necessary safety arrangements at site. The contractor shall execute a separate and legally binding agreement with the diver for sealing of intake and DT gates. All risks, liabilities, claims, and consequences arising out of diving operations shall be borne solely by the contractor.

#### 8. DEDUCTION/PENALTY:-

- i. If any auxiliary/ equipment not handed over to contractor for work by MPPGCL, then the amount for non-execution of that work shall be deducted from contractor's bill as per Price Breakup Schedule.
- ii. Any part of work that could not be completed due to lack on contractor's part in completion of work, in addition to deduction of cost of non-executed work as per Price Breakup Schedule, a penalty of some additional amount of non-executed part value shall be imposed which would not exceed the amount of 10% of total order cost.
- iii. In case, if any worker is observed not following the safety rules and regulations as per requirement of factory act and other relevant law, penalty as deemed fit. (Not exceeding Rs. 1000/- per day) shall be imposed by Engineer-in-charge and /or safety officer.
- iv. **Penalty due to cleanliness:** - The contractor shall maintain cleanliness and good housekeeping of the working area. The debris, scrap material etc. shall be removed regularly. If the area not cleaned properly by the contractor penalty may be imposed, which may extend up to 0.5% of the order value for which the work is assigned.
- v. In case of contractor fails to commence and complete the work as per the stipulated contract period mention in the order the delay will attract penalty. It would be Rs. 0.5%/- per week subjected to maximum ceiling of 10 % of contract value.
- vi. The contractor has to engage daily sufficient no. of skilled, semiskilled and unskilled experience workers along with two nos. supervisors daily. Out of the two supervisors one should have at least Diploma in Mechanical Engineering with experience of mechanical works and other should have Diploma in Electrical Engineering with experience of electrical works of power plant, to carry out the annual overhauling works of units as detailed in scope of works within time limit. The certificate in

respect of qualification and experience of supervisors shall invariably be submitted by contractor prior to start of work. In absence of supervisors, Rs. 1000/day/supervisor shall be deducted from contractor's bill subjected to maximum ceiling of 10 % of contract value.

#### **9. SAFETY APPLIANCE :-**

The contractor must take appropriate precautions for safety of his labours engaged in the work of General maintenance of units and all associated auxiliaries 3x20 MW, MHPS, Shivpuri will have to ensure the safe working. The contractor shall provide safety appliances to his staff at his own cost and ensure that these were appropriately used by them while they are working. The name of important safety appliances are given below:-

- (i) Helmet & Safety goggles, safety belts.
- (ii) Safety shoes.
- (iii) Rubber & leather hand gloves.
- (iv) Asbestos hand gloves & Apron.
- (v) 24-volt AC transformer & lamp.
- (vi) Any other items related to safety rules may be assumed in Contractor scope.

#### **10. STATUARY REQUIREMENT :-**

- (i) The contractor must have valid labour license, labour insurance etc.
- (ii) The contractor should be registered EPF holder. The copy of registration certification shall be submitted in this office along with tender documents. In absence of this the offer will be rejected.
- (iii) The contractor shall abide by all statutory requirement of central/state Govt. and MPPGCL.
- (iv) The contractor shall be responsible for compliance of all statutory obligations under factory act, minimum wages act, payment of employee's contribution under EPF scheme.
- (v) The contractor will ensure timely payment of wages to their workers, irrespective of payment received from the MPPGCL. Payment to workers shall be made through bank accounts only. No other mode of payment shall be accepted.
- (vi) Boards/Company's all other general terms & conditions regarding penalty, security deposit, income Tax / commercial tax / service tax or other statutory taxes etc shall apply on this tender.
- (vii) The payment of workers against earns leave days, bonus @8.33% and paid national holidays must be ensured by the contractor as per factory act and other government rules. The proof of payment shall be produced by the contractor during the whole tenure of contract. The contractor's bills will be passed only after ensuring that payment to workers have been made through their bank accounts only.
- (viii) All the employee / labours of contractor shall be insured under the policy of Pradhan Mantri Jeevan Jyoti Bima Yojana & Pradhan Mantri Suraksha Bima Yojana.

#### **11. INSURANCE :-**

The contractor should ensure suitable separate insurance for diving team for deep diving (more than 30 meter) in underwater work. Contractor shall also arrange suitable insurance of workers (which shall also cover the workers for working up to the height of thirty meters above ground) against any mishap/accident during the work. In case of any mishap or accident during the work/ diving, complete responsibility will lie on the contractor towards death / injury of his workers. MPPGCL in any case, will not be liable for payment of any compensation to any worker, if any, as per MP Govt. rules. The contract must submit the copy of insurance policy in this office prior to start of work.

#### **12. Guarantee: -**


The works/services shall be of highest standards conforming to relevant norms and shall be guaranteed for satisfactory performances for a period of **18 months** from the date of completion or **12 months** from the date of commissioning whichever is earlier.

#### **13. Work Completion Period:-**

Opportunity maintenance work would be carried out with in period of 70 days (20 days for U#1, 30 days for

U#2, 20 days for U#3) for all three units. In case units run due to early rains/ system demand the partial work may be carried out. The remaining work shall be completed later on. The total completion period will remain same. However, MPPGCL has reserve the right to reduce or increase work completion period.

14. The firms are advised to have a prior visit to the site for correct assessment of work

  
(M.K. Soni)  
**S E (O&M), MHPS**  
**MPPGCL, Madhikheda, Shivpuri**


**Annexure-III**

**List of consumables and materials to be arranged by the contractor before start of the work:-**

Sr. No.	Items	Make	Qty.
1.	Cotton waste	Good quality	150 Kg
2.	Cotton cloth	Good quality	500 Meter
3.	Dr. beck Insulation paint	Dr. beck	10 Lit
4.	Petrol/diesel	Reputed/Standard	50 lit
5.	CRC/CTC/White Sprit	Reputed/Standard	50 Lit
6.	Teflon tape	Reputed/Standard	3 Dozen
7.	Mica tape	Reputed/Standard	15 Nos.
8.	Glass tape	Reputed/Standard	15 Nos.
9.	Smoke grey/glossy gray paint	Reputed/Standard	30 Lit each
10.	Colour paints	Reputed/Standard	40 Lit
11.	Tarpin oil	Good quality	20 Lit
12.	Tirpal 10m x 6m	Reputed/Standard	02 Nos.
13.	'O' ring Box	Reputed/Standard	01 Nos.
14.	Epoxy paint for spiral	Reputed/Standard	As per actual
15.	Metal Primer	Reputed/Standard	60 lit
16.	Petroleum Jelly	Reputed/Standard	4 Kg
17.	Different size of Nut-Bolts	Reputed/Standard	As per requirement
18.	Washers (Different Size)	Reputed/Standard	2 Kg
19.	Instant Aadheseive	Reputed/Standard	50 ml
20.	Different size of glands	Reputed/Standard	05 Meter each size (8mm to 16 MM)
21.	Oil & Water Gaskets	Champion/Spitmaan	Water Gasket Style-39 (03 mm) - 10 Nos. Oil Gasket Style-59 (03 mm)- 10Nos.
22.	Welding electrodes 7018	Reputed/Standard	04 packets
23.	SS electrode 309L	Reputed/Standard	02 Packets
24.	Cast Iron electrode	Reputed/Standard	02 Packets
25.	Rustoline	Reputed/Standard	05 bottles (420 ml each)

26.	Different size neoprene rubber sheet	Reputed/Standard	Size: 1000x1000x3mm Qty-05 Nos. Size: 1000x1000x5mm Qty-05 Nos.
27.	Different size rubber cord	Reputed/Standard	10 Meter Each (08 mm to 20 mm)
28.	Lectra clean	Reputed/Standard	10 Bottle each 300 ml
29.	M-seal, Araldite, Hexa blade	Reputed/Standard	01 dozen each
30.	Grinding wheel AG-4	Reputed/Standard	02 Dozen
31.	Cutting wheel AG-4	Reputed/Standard	02 Dozen
32.	Flap Disc AG-4	Reputed/Standard	02 Dozen
33.	Emery papers	Reputed/Standard	05 Meter Smooth 05 Meter Rough
34.	Paint Brushes Size-3"	Good quality	05 Nos.
35.	Nylon brush (for tube cleaning)	Good quality	10 Nos.

**Note: The list of material and consumables given above is not exhaustive, if any other material is required for the work completion shall be arranged by the contractor at his own cost.**

  
 (R K Vimal)  
 EE (O&M), MHPS  
 MPPGCL, Madikheda, Shivpuri