



**OWNER:
THE TATA POWER COMPANY LIMITED**

TITLE OF WORK TO BE AWARDED:

**NOTICE INVITING EOI FOR PROVIDING SERVICES TOWARDS REFURBISHMENT OF
PMCC BUS AT BHIVPURI HPS,
BHIVPURI HYDRO POWER STATION, THE TATA POWER COMPANY LIMITED, P O
BHIVPURI CAMP, KARJAT, TALUKA KARJAT, DIST. RAIGAD-MAHARASHTRA
410201**

ENQUIRY REFERENCE NO.: CC26SPS044

NOTICE INVITING EXPRESSION OF INTEREST (EOI) FOR

NOTICE INVITING EOI FOR PROVIDING SERVICES TOWARDS REFURBISHMENT OF PMCC BUS AT BHIVPURI HPS

Enquiry reference no.: CC26SPS042
TITLE OF WORK: NOTICE INVITING EOI FOR PROVIDING SERVICES TOWARDS REFURBISHMENT OF PMCC BUS AT BHIVPURI HPS
Type of Bidding: E-tendering (through Ariba online portal) / Two Part (Technical and Price bids under separate envelopes)
Contact Details: All communication including EOI submission shall be addressed to following officer/s: Mr. Sat Singh Email: sat.singh@tatapower.com Copy of all communications shall be marked to (Cc): Mr. Kailash B Surve Email: ksurve@tatapower.com

The Tata Power Company Limited (“Owner”) invites Expression of Interest (EOI) from interested parties for the Two-Part e-Tendering Process of following Relevant Work Package:

Table 1

Package Description	Tender Fee	Bid Security	Estimated package value
PROVIDING SERVICES TOWARDS REFURBISHMENT OF PMCC BUS AT BHIVPURI HPS.	INR 2000/- (INR One Thousand Only) <i>To be submitted along with EOI.</i>	INR 30,000/- (INR Forty Thousand Only). <i>Bid Security to be submitted as a Guarantee/ DD/ NEFT at the BID stage (and not with EOI)</i>	Approx. INR 30 lakhs

1. INTRODUCTION:

The Tata Power Company Limited (TPC) is among the largest private sector Power Utility companies in India with presence in Generation, Transmission and Distribution of Power through conventional and renewable sources.

The tendering/ procurement activities for this Package are being managed from Tata Power’s following office:

Tata Power Trombay Thermal Power Station,
Corporate Contracts, 5t Floor, Station B,
The Tata Power Company Limited,
Chembur-Mahul Mumbai 400074 13,
Maharashtra, India.

2. Brief SCOPE OF WORK:

This Notice is for inviting Expression of Interest:

Brief scope includes Supply, Erection, Testing & Commissioning of Siemens 3WN6, 1600AMP BKR for PMCC, Supply, Erection, Testing & Commissioning of Siemens 3WN6, 650AMP BKR for PMC, Supply, Erection, Testing & Commissioning of Siemens Draw out type feeders with fixed type feeders for PMCC, Supply, Erection, Testing & Commissioning of 100VA PT feeder, Supply, Erection, Testing & Commissioning of Synchronizing panel, Supply, Erection, Testing & Commissioning of Protection Relays for PMCC Bus., Onsite Panel Painting Works for PMCC Bus, Other Modification for PMCC Bus etc,

3. TENDER FEE & TIMELINES:

a) Interested parties meeting the "Bidder Pre-Qualification Requirements" specified under point no. 4 in this document can request tender document and participate in the bidding process by submitting the Expression of Interest (EOI) Letter along with the Tender Fee Payment Details to the contact details mentioned below not later than deadline specified below. Request for extension of EOI submission date will be not entertained.

b) Interested bidders should submit the Expression of Interest (EOI) letter and tender fee payment details to below mentioned email addresses:

- Mails shall be addressed to (To): sat.singh@tatapower.com
- Must mark copy to (cc): ksurve@tatapower.com

EOI / requests without complete information and communication as above within deadline shall be liable to be rejected and will not be considered further.

c) Tender Fee, as indicated in the Table1 above may be paid through **NEFT/RTGS** as per details for payment of Tender Fee given in Table2 below:

Table 2

Details for payment of Tender Fee:	
Bank details for submitting Tender fees through bank transfer / NEFT:	Beneficiary Name: The Tata Power Company Limited Bank Name: HDFC Bank A/c no: 00600110000763 IFS Code: HDFC0000060 A/c type: CC Branch Name & Address: HDFC Bank, Maneckji Wadia Building, Nanik Motwani Marg, Fort, Mumbai 400023
Deadline for tender fee payment and submission of EOI:	15th July 2025, CoB

d) Expression of Interest letter to be submitted along with tender fee payment details should include the following details:

- A covering letter duly stamped and signed by an authorized signatory clearly indicating the Tender Reference number and your EOI to participate in the tendering process.
- Tender fee payment details / reference no (ensure that tender fee is received by us within specified deadline)
- Bidder to indicate authorized person name, contact number and e-mail id (mandatory) of the person to whom RFQ / tender and all other communications to be addressed for this tender.

e) Detailed Bid Document (also referred as RFQ) shall be issued through Tata Power e-tender portal (Ariba System) only to the parties submitting a valid EOI as per terms mentioned in this document.

4. BIDDER PRE-QUALIFICATION REQUIREMENTS:

Interested parties to note that Bidder shall be required to fulfill the following bidder pre-qualification requirement / criteria to qualify for the subject work. Bidder will be required to submit relevant supporting documents to demonstrate their qualification during the bid submission stage against Tender document / RFQ and bidders not found meeting the pre-qualification requirements given below will be disqualified from the tender.

4.1 TECHNICAL REQUIREMENT:

1. .

Technical Pre-qualification Requirement

Parameter	Tata Power Requirement	Documents To be submitted by Bidder to ascertain meeting of Pre-qualification requirement
Infrastructure & Technical Requirements	Bidder must have minimum 3 years of experience in the field of Hydro Power Plant ACDB Modification, refurbishment, commissioning works & other related works at TATA Power	Self-undertaking to be submitted in this regard. TATA Power reserves the right to inspect the other sites to ensure the facility as a proof of compliance to this parameter.
	Bidder should provide minimum two reference of having contract value Rs. 50 lakhs (Indian Rupees Fifty lakhs) for successfully rendered ACDB Works	(Attach PO Copy , Certificate of Experience and Satisfactory Completion of work awarded from concerned Establishments / Companies)
	Bidder should furnish List of Clients for whom they have done Electrical AMC works during the last three financial years i.e., FY 2021 -22, FY 2023 -23, and FY 2023-24 as per nature of contract.	(Attach PO Copy , Certificates from concerned)
	Bidder / Tenderer should preferably have ISO 9001 / ISO 14001 / ISO 45001 certification or must give an undertaking for its willingness to obtain the same within 2 months of qualification for the work.	(Attach Valid ISO Certificates)
	Bidder must have team of min 25 Person for handling emergency	

Supply and Experience	In case the bidder has a previous association with Tata Power for similar products and services, the performance feedback for that bidder by Tata Power shall only be considered irrespective of performance certificates issued by any third organization. Technical performance, delivery timelines, service and support records of past executed projects in Tata Power will be considered for technical evaluation of bidder.	Supply List & Performance Certificates from the utilities / clients
Commercial Capability	Bidder / Tenderer should have minimum average Turn-over of Rs. 30 Lakhs/ Annum	Copy of audited Balance Sheet and P&L Account to be submitted in this regard. (Attach Profit & Loss Certificate with UDIN from Chartered Accountant in this regard)
EPC Experience (if applicable)	In case the package involves installation & commissioning of the equipment / material, then the bidder shall have the following experience: a) He should have successfully completed one single order of value (80% of estimated value of similar work in last three years) OR b) He should have successfully completed two single orders of value (50% of estimated value of similar work in last three years) OR c) He should have successfully completed three single orders of value (40% of estimated value of similar work in last three years).	Performance Certificates from the utilities / clients

2.

4.2 FINANCIAL REQUIREMENT:

Bidder / Tenderer should have minimum Average Annual Turn-over of Rs. 30 Lakhs (Indian Rupees Thirty Lakhs) during the last three financial years i.e., FY 2021 -22, FY 2022 -23 and FY 2023-24 (Attach Profit & Loss Certificate with UDIN from Chartered Accountant in this regard)

It may be noted that the above requirements are minimum qualification criteria. However, Tata Power reserves its right to further assess the capabilities of the parties and reserves its rights to further shortlist, accept or reject any party without assigning any reason. The tender may be split in more than one parties at the discretion of Owner.

5. BID SECURITY / EMD:

Interested parties to note that Bidder will be required to furnish a Bid Security along with their Bid, in the format prescribed in Bid Document **in the form of Bank Guarantee or through RTGS or Demand Draft**, for an amount as defined in the covering page of this notice document. Bids not accompanied by an acceptable Bid Security shall be rejected by the Owner as being non-responsive and returned to the bidder without being opened.

Interested parties to note that Bid Security is not required with the EOI, and it is required to be submitted with the Bid only during Bid Submission stage once RFQ is released to the interested parties that have submitted a valid EOI.

6. BIDDING PROCESS:

Detailed Bid Document (also referred as RFQ) shall be issued through Tata Power e-tender portal (Ariba System) only to the parties that submitted a valid EOI as per terms mentioned in this document.

Bidder to note that commercials for subject tender may be conducted through e-auction. Detailed bidding and auction process shall be detailed in the RFQ / tender document.

BOQ for providing services towards refurbishment of PMCC bus a

Sr No.	Service No	Item description	Qty
	1st Year OLA		
1	4303535	S,E,T & C of Siemens 3WN6 , 1600AMP BKR	3
2	4303629	S,E,T & C of Siemens 3WN6 , 650AMP BKR	1
3	4304776	S,E,T & C of Siemens 4 Pole 400AMP MCCB	5
4	4303621	S,E,T & C of Siemens 4 Pole 200AMP MCC	9
5	4303534	S,E,T & C of Siemens 4 Pole 125AMP MCCB	3
6	4303624	S,E,T & C of Siemens 4 Pole 63AMP MCCB	11
7	4303623	S,E,T & C of Siemens 4 Pole 32AMP MCCB	5
8	4303540	S,E,T & C of Siemens 4 Pole 25AMP MCCB	11
9	4303537	S,E,T & C of Siemens 4 Pole 16AMP MCCB	7
10	4303626	S,E,T & C of Siemens SFU for 100VA PT	2
11	4303536	ELEC,ET & C of Siemens Make Syncroscope	1
12	4303630	S,E,T&C of Univerasal Protection Relay	5
13	4303924	Onsite Panel Paiting Works	1
		1st Year Total Base Value	
		2nd Year OLA Total Base Value with 5% YOY Escalation	
		3rd Year OLA Total Base Value with 5% YOY Escalation	
		Total Base Value for 3 Years	
		Add GST @ 18%	
		Gross Value for 3 Years	
Note: YOY escalation shall not be more then 5%.			



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Scope of Work, Method Statement, Safety Requirement & Quality Acceptance for PMCC Bus Refurbishment works at Bhivpuri.

Scope of work & Safety Requirements:

1) Supply, Erection, Testing & Commissioning of Siemens 3WN6, 1600AMP BKR for PMCC: -

Supply services includes all required modifications in ACDB such as replacement of Breaker with same type and model , replacement of rack in -rack out assembly , sheet metal fabrication works, Bus bar modification , Control wiring modification, LOTO arrangement for Breaker and Breaker feeder panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches , replacement of AC and DC Control MCB , replacement of breaker contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp , replacement of droppable links in control panel as per colour coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black , remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.

2) Supply, Erection, Testing & Commissioning of Siemens 3WN6, 650AMP BKR for PMCC: -

Supply, Erection, Testing & Commissioning of Siemens make 3WN6 , 650AMP Breaker.
Supply services includes all required modifications in ACDB such as replacement of Breaker with same type and model , replacement of rack in -rack out assembly , sheet metal fabrication works, Bus bar modification , Control wiring modification, LOTO arrangement for Breaker and Breaker feeder panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches , replacement of AC and DC Control MCB , replacement of breaker contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp , replacement of droppable links in control panel as per colour coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black , remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.

3) Supply, Erection, Testing & Commissioning of Siemens Draw out type feeders with fixed type feeders for PMCC: -

A) Supply services includes all required modifications in ACDB such as replacement of SFU/Fuse link with suitable model Siemens make 4 Pole 400 AMP MCCB along with 4 NO and 4 NC add on contacts



THE TATA POWER CO LTD
BHIVPURI HYDRO POWER STATION

, draw out type feeder to be converted in to fixed type MCCB , Sheet metal fabrication works, Bus bar modification , Control wiring modification, LOTO arrangement for MCCB and MCCB feeder panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches ,replacement of AC and DC Control MCB , replacement of breaker contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp , replacement of droppable links in control panel as per colour coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black , remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.

- B) Supply services includes all required modifications in ACDB such as replacement of SFU/Fuse link with suitable model Siemens make 4 Pole 200 AMP MCCB along with 4 NO and 4 NC add on contacts , draw out type feeder to be converted in to fixed type MCCB , Sheet metal fabrication works, Bus bar modification , Control wiring modification, LOTO arrangement for MCCB and MCCB feeder panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches ,replacement of AC and DC Control MCB , replacement of breaker contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp , replacement of droppable links in control panel as per color coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black , remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.
- C) Supply services includes all required modifications in ACDB such as replacement of SFU/Fuse link with suitable model Siemens make 4 Pole 125 AMP MCCB along with 4 NO and 4 NC add on contacts , draw out type feeder to be converted in to fixed type MCCB , Sheet metal fabrication works, Bus bar modification , Control wiring modification, LOTO arrangement for MCCB and MCCB feeder panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches ,replacement of AC and DC Control MCB , replacement of breaker contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp , replacement of droppable links in control panel as per color coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black , remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.
- D) Supply services includes all required modifications in ACDB such as replacement of SFU/Fuse link with suitable model Siemens make 4 Pole 63 AMP MCCB along with 4 NO and 4 NC add on contacts , draw out type feeder to be converted in to fixed type MCCB , Sheet metal fabrication works, Bus bar modification , Control wiring modification, LOTO arrangement for MCCB and MCCB feeder panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches ,replacement of AC and DC Control MCB , replacement of breaker contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage



THE TATA POWER CO LTD
BHIVPURI HYDRO POWER STATION

LED lamp , replacement of droppable links in control panel as per color coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black , remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.

- E) Supply services includes all required modifications in ACDB such as replacement of SFU/Fuse link with suitable model Siemens make 4 Pole 32 AMP MCCB along with 4 NO and 4 NC add on contacts , draw out type feeder to be converted in to fixed type MCCB , Sheet metal fabrication works, Bus bar modification , Control wiring modification, LOTO arrangement for MCCB and MCCB feeder panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches ,replacement of AC and DC Control MCB , replacement of breaker contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp , replacement of droppable links in control panel as per color coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black , remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.
- F) Supply services includes all required modifications in ACDB such as replacement of SFU/Fuse link with suitable model Siemens make 4 Pole 25 AMP MCCB along with 4 NO and 4 NC add on contacts , draw out type feeder to be converted in to fixed type MCCB , Sheet metal fabrication works, Bus bar modification , Control wiring modification, LOTO arrangement for MCCB and MCCB feeder panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches ,replacement of AC and DC Control MCB , replacement of breaker contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp , replacement of droppable links in control panel as per color coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black , remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.
- G) Supply services includes all required modifications in ACDB such as replacement of SFU/Fuse link with suitable model Siemens make 4 Pole 16 AMP MCCB along with 4 NO and 4 NC add on contacts , draw out type feeder to be converted in to fixed type MCCB , Sheet metal fabrication works, Bus bar modification , Control wiring modification, LOTO arrangement for MCCB and MCCB feeder panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches ,replacement of AC and DC Control MCB , replacement of breaker contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp , replacement of droppable links in control panel as per color coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black , remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.



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BHIVPURI HYDRO POWER STATION

4) Supply, Erection, Testing & Commissioning of 100VA PT feeder.

Supply services includes all required modifications in ACDB such as replacement of SFU/Fuse link with suitable model Siemens make SFU along with 4 NO and 4 NC add on contacts for 100VA PT , draw out type feeder to be converted in to fixed type MCCB , Sheet metal fabrication works, Bus bar modification , Control wiring modification, LOTO arrangement for MCCB and MCCB feeder panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches ,replacement of AC and DC Control MCB , replacement of breaker contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp , replacement of droppable links in control panel as per colour coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black , remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.

5) Supply, Erection, Testing & Commissioning of Synchronizing panel.

Supply service includes all required modification in common synchronising panel of PMCC bus for Incomer Source # 1, Incomer Source # 2 and DG incomer including all required modification in control wiring. Replacement of Analogue meters replacement of local operation control switches replacement of AC and DC Control MCB replacement of breaker contact male-female connector replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp replacement of droppable links in control panel as per colour coding standard (for DC – Red and Black Link AC – Red Yellow Blue and Black remaining control circuit Grey shed (Link Model – Connectwell – STH4DT 1000V 45A) replacement of Trip & Aux relay of any for feeder.

6) Supply, Erection, Testing & Commissioning of Protection Relays for PMCC Bus.

Supply, Erection, Testing & Commissioning of Siemens Make Universal Protection Relay. Supply services includes all required modifications in ACDB for replacement of electro mechanical type relay with Siemens make Universal Protection Relay, Sheet metal fabrication works for installation of relay , Control wiring modification, LOTO arrangement for relay panel , Provision of SATEC meter with Ethernet port , replacement of Analogue meters , replacement of local operation control switches ,replacement of AC and DC Control MCB , replacement of relay contact male-female connector , replacement of ON-OFF-TRIP LED indicators with universal voltage LED lamp , replacement of droppable links in control panel as per colour coding standard (for DC – Red and Black Link , AC – Red , Yellow, Blue and Black ,



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BHIVPURI HYDRO POWER STATION

remaining control circuit Grey shed (Link Model – Connectwell – STH4DT , 1000V , 45A) , replacement of Trip & Aux relay of any for feeder.

7) Onsite Panel Painting Works for PMCC Bus: -

Onsite Panel Painting Works - Single coat zinc primer and double coat PU Enamel including scrapping and removing of existing loose paint. Final DFT of Panel paint Min 300 micron. Duration between each coat of 4 Hrs considering environmental condition. Make of Paint - Dulex, Nerolac, Asian Paints as per instruction of site Incharge.

8) Other Modification for PMCC Bus: -

- A) All draw out type feeders to be converted in to fixed type feeders.
- B) All feeders control wiring modification to be considered in drawing and 2 Sets of drawing to be submitted by Vendor to user department. All modification to be captured in Drawing along with all equipment specification.
- C) Neutral line to be extend from main bus to each feeder and terminate at each feeder 4 Pole MCCB.
- D) Existing alarm module to be replaced with new latest model alarm module for local annunciation purpose.
- E) All busbar support to be replaced with new support insulator.
- F) All terminal link for control and power circuits to be replaced with new terminal link.
- G) SATEC Meters to be provided to Incomer # 1, Incomer # 2 and DG Incomer feeders along with Ethernet port connectivity. Scope includes Supply, Erection, Testing, Commissioning & connectivity of all feeders in SCADA system.
- H) All feeders' door & Cable & bus bar section doors/panel covers locking arrangement to be replaced with LOTO locking arrangement.
- I) On, Off and Trip position indication LED to be provide to all outgoing feeders.
- J) All Control MCBS and Fuses to be upgrade with latest model MCB & fuses along with add on contacts for extension of alarms in SCADA system.
- K) All operation and control selector switches including breaker and other feeders' switches to be replaced.
- L) PT Voltage indication LED & SATEC Meter to be provide PT # 1 and PT # 2 feeder.
- M) SATEC Meter to be provide to all 400 AMP & 200 AMP Feeders.
- N) Replacement of DG Synchronizing panel local control switches including synchronising relays and synchroscope.
- O) All required bus modification along with required material and tools is in vendor scope.
- P) All modification to be carried out at site as per the provided drawings and specifications.
- Q) All required wires for control wiring to be arranged by vendor.



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BHIVPURI HYDRO POWER STATION

- R) All required feeder name plate to be replaced with updated name plate as per provided name list by site engineer.
- S) All protection relay to be replaced with multifunction digital relay as per the specifications provided by Engineering team.
- T) Existing feeders cable disconnection and reconnection after modification is in vendor scope.
- U) All required bus bar, metal sheet, hinges, LOTO lock etc to be arranged by vendor.
- V) All open bus bar to be provide with insulated sleeve.
- W) All fabrication and sheet metal works including cutting, glanding , bending and welding is in vendors scope.
- X)

Prerequisite:

- 1) Engineers for continuous Supervision-Project Work Experience (Min 5yrs)
- 2) Planning Engineer/Supervisor-For daily planning/Review of the work with Client
- 3) Safety Supervisor / job Supervisor is mandatory as the work includes critical safety procedure of working at Height.
- 4) Skilled Workmen – Required for carrying out working at height and Confined space jobs.
- 5) Unskilled Workmen – Helpers (Material shifting)
- 6) All Manpower are required to be undergone through L1/L2/L3 training of TPSDI
- 7) All special skilled workman should have their valid license and authorizations for carrying out job and is to be produced as when demanded.
- 8) All manpower should be competent for working at height & Confined space and medically certified.
Vertigo Test, High/Low BP
- 9) Daily toolbox talks.

Tools & Tackles Required

- 1. Safety PPEs including Reflective jackets, Safety Hand gloves, Safety Helmet/ Hard Hat, Safety shoes, Safety spectacles, Knee guard & snake guard
- 2. Double lanyard cushioned Harness with suspension, Lifeline Arrangement along with fall arrested for climbing on dam wall.
- 3. Antivenom Sprays and Chemical for removing poisonous animals in surrounding area.
- 4. First Aid & Rescue kits at Working locations.
- 5. Fire Extinguishers near the Working Locations.
- 6. Switch board & Industrial socket, Electrical power cables for connections.
- 7. 24V Transformers & Handlamps (As per requirement)
- 8. For access on buttressing required scaffold / rope ladder as pe the TATA power standard.
- 9. Full threaded Studs
- 10. Chain Pulley Blocks 2T



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11. Drinking Water Cans
12. Barricading Tapes
13. Scaffolding Material - certified, trained manpower
14. Safety road sign board and hard barriers.

Other Resources Required:

1. Staying Arrangement at Bhivpuri area. (To be arranged by vendor at its own cost)
2. 4-Wheeler Vehicles required for emergency purpose along with first aid kits (As per requirement)
3. Battery Operated Tools & Torch
4. Drinking water Barrels at each working location
5. Fire Extinguishers – ABC / CO2 & MECHANICAL FOAM
6. Scaffolding Pipes & Clamps
7. First aid box with trained & dedicated first aiders.
8. Dedicated Emergency vehicle must be on site.

Quality Acceptance Criteria Prior to start of Activity:

- 1) Tested Tag on all electrical appliances by Tata Power
- 2) Tested tag on all Portable petrol/ diesel operated appliances by TATA power
- 3) Details of job plan for working at height activities on dam upstream and downstream wall
- 4) Test Certificates of Ropes, Pulley

General Safety Precautions:

General and Safety Terms: -

- 1) The quoted rates will be valid for a period of three years from the date of opening of this tender enquiry.
- 2) Site Safety plan shall be prepared by the vendor along with the order manager and Head Safety before starting the Job.
- 3) Tata Power Safety Procedure issued with general conditions of contract and safety rules & guidelines being issued time to time must be followed by the vendor.
- 4) Safety Officer/ Consultant – Vendor's safety expert will be interviewed by Head O & M and Head Safety prior to Long duration, high risk, high value activity.
- 5) The work to be carried out shall be in accordance with standard engineering practices, approved drawings, relevant standards, and the instruction of the Companies Engineer/Supervisors.



THE TATA POWER CO LTD
BHIVPURI HYDRO POWER STATION

- 6) An adequate qualified Supervisor shall be posted by you for supervising your workforce and that of your subcontractors, if any, and for taking care of their needs. **(Dedicated supervisor is required or the AMC related jobs. Owner of the registered vendor will not be considered as supervisor)**
- 7) All tools and tackles, instruments and other appliances required for carrying out and completing the work to our specifications shall be provided by vendor.
- 8) Vendors must submit a valid certificate from competent person of respective state for all lifting tools and tackles (like hoist, D Shackles, Chain Block, Wire Ropes etc.)
- 9) All electrical hand tools must be tested for leakage of current and power must be taken from RCCB of 30 mA
- 10) All safety apparel required for the work shall be provided by the vendor. The companies shall not be responsible whatsoever for any accident met with during your work, by the personnel deployed by you for the work.
- 11) Good housekeeping shall be maintained by you and the personnel deployed by you at or around the place/location of the work, no objection particularly metallic wires should be strewn around the area. The place, site or location shall be restored after completion of the work to the original condition in which it was handed over to you, as regards housekeeping and cleanliness. You should be liable to compensate in full for any damage/accident, which may arise as a result of your failure to comply in this regard.
- 12) You shall fully comply with all statutory requirement in connection with administering of ESIC, Workmen Compensation, Provident Fund, House Rent Allowance, Bonus, Gratuity leave, Retrenchment Compensation and any other statutory requirement compensation and any other statutory requirement and shall indemnify us fully against any loss, fine, damages if whatsoever, attracted by us because of failure on your part to comply. Companies shall have the right to deduct any statutory levies and fines, if any from your bill in the absence of your compliance, for payment to the concerned authorities.
- 13) The quoted rate is inclusive of all Statutory requirements mentioned in Point no # 12
- 14) You shall comply fully with the relevant provision of the Factory Act, Contract Labour Regulation (Abolition Act), Workmen Compensation Act, Bombay Shop and Establishment Act, payment of wages Act and such other relevant acts whose provision are applicable in respect of execution of the order.
- 15) The value of this order shall be inclusive of the work contract tax, which you are liable to pay (if applicable).
- 16) You shall obtain proper gate passes in the prescribed format from our office for all the personnel deployed by you for the work and instruct them to subject themselves as and when required to our security surveillance and check.



THE TATA POWER CO LTD
BHIVPURI HYDRO POWER STATION

- 17) Uniform / Dress code, Safety Helmet, Safety Shoes, Reflective jacket is mandatory for working crew including supervisor on an annual basis.
 - 18) For monsoon operation Raincoat & Rainy shoes for working crew to be arranged by Vendor on an annual basis.
 - 19) Communicate & Display the Emergency contact numbers and Medical Numbers to all the working personnel involved in the work.
 - 20) All working crew need to undergo the safety L1, L2 and L3 training course on a chargeable basis.
 - 21) For gate pass procedure Police verification and annual statutory medical examination is mandatory.
 - 22) All the employees exposed to electrical installation shall be trained and certified in TATA Power Critical safety procedure for electrical work as well as other critical safety procedures such as working at Height, Excavation, Hot Work, Confined Space, Work near HV system, LOTO, PTW etc. from TATA Power TPSDI before issuance of gate pass.
 - 23) You shall strictly follow all safety instructions at premises/site and proper procedures for doing the job safely within & around the company premises.
1. The entry of your personnel to company premises shall be only with safety Induction training (L1, L2 and L3) completed & marked on valid entry passes issued & approved by Company's security & safety personnel.
 2. You shall implement safety Induction training for all contract employees prior to the entry in the Premises of the company.
 3. All necessary safety appropriate tools and tackles & safety apparel including safety equipment's required for the job should be provided by the Contractor at no extra cost to us.
 4. Violation of any safety requirements, instructions and procedures will be treated as non fulfilment of the job & hence may lead to termination of the contract.

Note: All the above-mentioned Safety requirements are tentative and are subject to change as per the activities, methods/technology adopted & site conditions; This needs to be reviewed and followed up based on final methodology/technology adopted & final site conditions at the time of commencing work.

Feeder no	Feeder name
1F1	Unit # 9 , 10 and 11 Breake Supply # 1
1F2	U9 & 10 power receptable area
1F3	Unit # 10 MCC Incomer # 1
1F4	CW Pump House ACDB Incomer # 1
2F1	Ligtinging Distribution Board Feeder # 1
2F2	220V Battery Charger # 1
2F3	Bus PT # 1 Relay Panel
2F4	100VA Bus PT # 1
3F1	Syncornising Panel
4F1	SAT # 3 Incomer Breaker (Incomer # 1)
4F2	DG Incomer Breaker (Incomer # 3)
4F3	Incomer # 1 & DG Incomer Relay & Control Panel
5F1	Bus Coupler Breaker
5F2	SAT # 4 Incomer Breaker (Incomer # 2)
5F3	Incomer # 2 & BC Incomer Relay & Control Panel
6F1	Neutral Link Dummy panel
6F2	Alarm Module
6F3	GT # 10 Cooler Cabinet
6F4	Bus PT # 2 Relay Panel
6F5	100VA Bus PT # 2
7F1	U9 Area Power receptable
7F2	415 Distribution ACDB Inocmer # 2
7F3	Ventilation DB Incomer feeder in Unit # 11 Aux Room
7F4	OPH ACDB Incomer # 2
8F1	SPARE
8F2	Dummy Panel
8F3	U 10 power receptable area
8F4	Teleperme Panel
8F5	CW Pump House ACDB Incomer # 2
Feeder no	Feeder name
1R1	Neutral Link Dummy panel
1R2	OPH ACDB Incomer # 1
1R3	NPH Tailrace gate crane
1R4	415 Distribution ACDB Inocmer # 1
1R5	U 11 power receptable area
1R6	UNIT # 9 MCC Incomer # 1
2R1	Dewatering Pump # 1
2R2	GT # 09 Cooler Cabinet # 1
2R3	GT # 11 Cooler Cabinet # 1
2R4	EOT Crane
2R5	GT # 10 Cooler Cabinet # 1

2R6	UNIT # 11 MCC Incomer # 1
3R1	Syncornising Panel
4R1	SAT # 3 & DG Incomer Cable Compartment
5R1	SAT # 4 & BC Incomer Cable Compartment
6R1	Dewatering Pump # 2
6R2	Unit # 11 GE /GHC panel AC Supply
6R3	GT # 11 Cooler Cabinet # 2
6R4	Unit # 9 , 10 and 11 Breake Supply # 2
6R5	Unit # 10 Air Condition
6R6	UNIT # 10 MCC Incomer # 2
7R1	OPH Essential Feeder # 2
7R2	Ligtinging Distribution Board Feeder # 2
7R3	U 11 power receptable area
7R4	220V Battery Charger # 2
7R5	UNIT # 11 MCC Incomer # 2
8R1	Unit # 10 Autostariner
8R2	Unit # 9 , 10 & 11 Sump Pump
8R3	HPRV Supply
8R4	GT # 9 Cooler Cabinet # 2
8R5	Unit # 9 Air Condition
8R6	UNIT # 9 MCC Incomer # 2

Feeder Rating	Note
25 AMP	Earlier used for OPH Essential ACDB Incomer # 1
63 AMP	
200 AMP	
400 AMP	
63 AMP	
63 AMP	
100 AMP	
1600 AMP	
630 AMP	
	DG Set speed control & Synchronising panel
1600 AMP	
1600 AMP	
	Incomer Breaker Changeover Control Panel
25 AMP	
32 AMP	
63 AMP	To be confirmed
200 AMP	
400 AMP	
16 AMP	
	To be convert in to 200 AMP Feeder
32 AMP	
32 AMP	To be confirmed
400 AMP	
Feeder Rating	Note
400 AMP	25AMP Feeder converted in to 400 AMP Feeder. To be Confimred
16 AMP	
63 AMP	To be confirmed
63 AMP	
200 AMP	
16 AMP	To be confirmed
25 AMP	
25 AMP	
63 AMP	To be confirmed
25 AMP	

200 AMP	
16 AMP	To be confirmed
25 AMP	To be confirmed
25 AMP	
25 AMP	
63 AMP	To be confirmed
200 AMP	
125 AMP	To be confirmed
125 AMP	To be confirmed
32 AMP	
63 AMP	
200 AMP	
16	To be confirmed
16	
25	
25	
63	
200	