



**OWNER:  
MAITHON POWER LIMITED**

**PROJECT MANAGER:  
MAITHON POWER LIMITED**

**PROJECT:  
AMC (O&M) for the Centralised AC Systems for 3 Years in MAITHON POWER LIMITED,  
JHARKHAND  
TENDER REF: (MPL/MMD/DB/2026/2000092852)**

**EXPRESSION OF INTEREST (EOI)**

**AMC (O&M) for the Centralised AC Systems for 3 Years in MAITHON POWER LIMITED, JHARKHAND**

<b>Enquiry reference no.:</b> - MPL/ADMIN/DB/2026/ 2000092852)
AMC (O&M) for the Centralised AC Systems for 3 Years in Plant MPL at 2 X 525 MW Maithon Power Limited (MPL), Jharkhand – India
<b>Type of Bidding:</b> E-tendering / Two Part
<b>Contact Details:</b> Ms. Debarati Bhattacharyya-Contracts, Mobile-9234000596, Email Id:-debarati.b@tatapower.com Mr. Rabish Kumar – Gr. Head Contracts & Materials, Mobile: 9241581679, Email Id:- krabish@tatapower.com Maithon Power Ltd., (A Joint Venture Company of Tata Power & DVC), Works: Village Dambhui, P.O. Barbendia, P.S. Nirsra, District Dhanbad 828 205, Jharkhand, India

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

Plant Details	Description	Tender Fee	Bid Security (EMD)
2X525 MW Maithon Power Limited (MPL), Dhanbad, Jharkhand	AMC (O&M) for the Centralized AC Systems MPL for 3 years, MAITHON POWER LIMITED, JHARKHAND	INR 2,000/-	INR 1,74,000/-

#### **INTRODUCTION:**

Maithon Power Limited (MPL) is a 74:26 joint venture of The Tata Power Company Limited and DVC (Damodar Valley Corporation). MPL owns and operates 2x525 MW capacity, Indian coal based thermal power generation plant based on pulverized coal-based boiler technology. The generating plant is in Maithon near the city of Dhanbad in the state of Jharkhand in India. A brief overview of Owner and Site is given below:

<b>Site Name</b>	2 X 525 MW Maithon Thermal Power Plant
<b>Owner</b>	Maithon Power Limited
<b>Project Manager</b>	Maithon Power Limited
<b>Site Location</b>	Maithon, Dhanbad district, Jharkhand, India, on the right bank of the river Barakar in the Nirsa-cum-Chirkunda C.D. Block of Dhanbad district, Jharkhand at a road distance of about 7.5 km from Nirsa, North of G.T. Road (N.H.2) and 10 km north of Mugma railway station on the Howrah Mughalsarai Grand Chord line of the Eastern Railway.
<b>Elevation Above Mean Sea Level</b>	156 m to 177 m above Mean Sea Level
<b>Access to Site</b>	<ul style="list-style-type: none"> <li>➤ Road: About 7.5 km north of G.T. Road Nearest town is Nirsa</li> <li>➤ Rail: Nearest Railway station – Mugma railway station.</li> </ul>

#### **1. Brief SCOPE OF WORK (Details scope is publishing website):**

The scope of the BIDDER shall comprise of the 24 X7 trouble-free Operation, Maintenance & Housekeeping (S+ 5S) of the Air Conditioning (AC) System. It includes the supply of all required Resources (Engineers, Technician, Workforce, Tools & Tackles, Spares & Consumables) for the efficient & effective running of the AC System.

The HVAC system comprises of: -  
 TG & ESP Building AC System.  
 Technical Building PAC System.  
 Canteen Building PAC System.  
 Ash Handling Building PAC System.

(Ref Annex-1 for major equipment List).

### **OPERATION OF AC SYSTEM**

The Operational aspects mainly consist of: -

Operation and supervision of the AC system:

- Round the clock 24 x 7 operation and supervision of Central Air Conditioning System (For TG Building, ESP Control Rooms)
- Round the clock operation and supervision of Package Air –Conditioning (PAC) System in Technical Building, Canteen Building and the AHP (Ash Handling Plant)

The details of day-to-day operation activities are as follows:

- 1) Checking of the Central Air conditioning plant & PAC in Technical Building, Canteen Building & the AHP (Ash Handling Plant) which includes equipment like screw chiller, chilled water pump, condenser water pump, cooling tower, AHU, water softening system etc.
- 2) Starting & shutting down of the equipment of the Central Plant, AHU, PAC as and when required.
- 3) Control of dampers as and when required.
- 4) Overhaul checking of the plant and equipment of the air-conditioning system including that of AHU in each shift.
- 5) Checking of functioning of the equipment for the normal operating condition.
- 6) Checking of healthiness of indication, annunciators, and instrumentations.
- 7) Recording of operational data of the plant and room temperature of the specified locations at regular interval (every 3 hours) in the prescribed log sheet which duly sign by respective location.
- 8) Any breakdown of the equipment to be intimated to the maintenance department (MMD, EMD, & IMD) for necessary action.

### **MAINTENANCE OF AC SYSTEM (Mechanical, Electrical, C&I)**

The MPL is currently following the RCM (Reliability Centered Maintenance) guidelines for the maintenance of the AC System & so the vendor has to execute the jobs/activities as per the frequency advised/ followed in the SAP system. The vendor shall carry out the regular Running/Routine Maintenance, Preventive/ Predictive/ Diagnostic maintenance, Condition Based Monitoring, Breakdown maintenance, Overhaul (minor and major) and/or planned/Annual shutdown maintenance as well as any kind of modification, alteration, rectification, refurbishment, replacement in the existing system to facilitate for the healthiness of the AC System.

It is important to note that during the Winter Season, when the temperature is at minimum, the operation will give the clearance for the annual maintenance (overhauling) of Chiller, condenser, pumps, pipelines, valves, cooling towers, AHUs & associated equipment. The vendor has to remain ready with all the resources (manpower, spares, tools & tackles, etc) for the execution of the job. This annual overhauling shall be in addition to the regular check-up & maintenance. They need to submit the detail plan & spares availability list for any such maintenance & must mention in their daily/ monthly MIS reports.

#### **The Jobs specified are only indicative but not exhaustive:**

Maintenance & Annual Overhauling of Central Air Conditioning System (For TG Building & ESP Control Rooms).  
Maintenance & Annual Overhauling of PAC System in Technical Building, Canteen Building and the AHP Control Room.

Checking and rectification, if required for abnormal noise, vibration in any equipment.

Checking of leakage of oil, refrigerant, topping up of the same if required.

Develop action plan for rectifying abnormalities, if any observed in performance of the system.

To attend breakdown calls, as and when required, investigation, locate defects, replace the defective parts and re-commissioning of the system.

Assist and plan requirement of spares for annual overhauling of the system.

Checking of leakage and repair/replacement/adjustment of pumps, seals, glands, valve glands, gaskets etc.

Checking and rectification/replacement of all bearings, shafts, sleeves, required for healthy operation of the system.

Periodic inspection & replacement of damaged components of AHU like V belts & bearings. Checking of CT fan motor, blades, etc.

Cleaning of cooling tower sump, pot strainer in every week.

Cleaning of air filters of AHU every week.

Cleaning of AHU coil by water spray and with cleaning agent in every month. Cleaning of Plant /AHU Room.

Maintenance of fresh air fan/motor.

Leak testing of the plant in every week.

Lubrication the bearings of all the motors, pumps, and fans as and when required for AHU, Pumps, Cooling Tower Motors & Gear Box or any other equipment associated with AC System.

Inspection of the HVAC systems and carrying out the preventive maintenance as per the schedule of given by MPL engineer and ensuring 100% adherence to PM (Planned Maintenance) schedule.

Inspection of the HVAC systems and carrying out the condition-based monitoring (CM) system as per the schedule of given by MPL engineer and ensuring 100% adherence to CM schedule.

Inspection of the refrigeration system, motor, and starters for performance.

Checking the system for any leaks and rectification of leaks if found.

Data collection and analysing to ensure satisfactory performance of the HVAC system.

Checking the refrigeration control system for operation and adjusting its desired settings.

De-scaling the condensers for water cooled units if found necessary.

Repairing the components of the equipment at site as and when required.

Overhauling the compressor at site or in service station as and when required.

Attending to complaint/breakdown calls whenever required.

Reporting the healthiness of the plant and suggesting improvements

Maintaining the complete history data sheet of the equipment and monthly/daily submission as per the format.

Ensuring sufficient numbers of skilled manpower at site to execute the jobs.

Vendor will carry out the maintenance of complete central air conditioning system and round the year (24 X7). Vendor will provide trouble free, uninterrupted, and smooth operation & maintenance and will also maintain inside design conditions.

Vendor will attend all types of faults, defects, repair, servicing, maintenance, break down/failures promptly.

All fabrication work, welding, gas cutting, grinding, leakage attending will be under vendor scope demanding upon the necessary of the job

Vendor shall arrange specialized services of OEM experts or its own experts for 3 months in intervals inspection and emergency repair work of the equipment at its own cost.

Checking of leakage of oil, refrigerant, topping up of the same if required.

To attend breakdown calls, as and when required, investigation, locate defects, replace the defective parts and re-commissioning of the system.

All necessary checking/maintenance of water softening plant. Periodic testing/ inspection of water hardness to check the performance of the softening plant.

Annual replacement of compressor oil based on the oil condition.

Annual servicing of electrical MCC and replacement of contactors/ overload / SFU /Indication lamps as per requirement.

Vendor has to provide detailed RCA report for all breakdown maintenance within a week.

Repairs at the OEM works

Vendor has to carry out all the major repairs which are to be carried out at the OEM works, for e.g., Replacement of heat exchangers, copper tubes, removing and fixing of AHU blowers, cooling coils and compressor overhauling without any extra cost.

#### **OEM Technical Advisor**

During the contract, vendor shall at its own cost arrange for the visit of the Technical Advisor of the OEM (Mihir, Ion Exchange, Kirloskar etc) to MPL, as and when required. Vendor has to arrange yearly visit of technical advisor of chiller unit for checking the healthiness of the system and submit the report.

## **Mechanical Maintenance**

### **Chiller Plant & Condenser**

Preventive maintenance as per schedule. Monthly Leak test for refrigerant leakage inspection and repairing if required Annually cleaning of condenser tubes with acids solution. Inspection, rectification/replacement of all the inlet and outlet valves associated with the chiller machines. The valve internals & the full valves must be replaced as per the EIC (Engineer in Charge) instruction.

All refrigerant gas top-up, leakage attending (brazing/welding), sealing & cleaning.

Scheduled cleaning of condensate water pipeline.

Checking of chilled water make-up tank.

Plugging/replacement of damaged tubes.

Arrangement of necessary hand/ reciprocating high pressure pumps for the cleaning & testing of tubes. All cleaning agents, acids are to be supplied by the vendor. EIC to approve all these chemicals before its use.

All tools and tackles & maintenance tools & tackles shall be in vendor scope.

### **Pumps**

Chilled water pump, Condensate water pump, Transfer Pumps, Cooling Tower Pumps & all other associated pumps for the complete AC System.

a. Checking of water leakages through the pump gland and replace the gland, if required.

b. Coupling alignment check of motor and pump and correction as required.

c. Inspection of coupling. Replacement if required.

d. Ensuring the vibration of the pumps within allowable tolerance limit.

e. Ensuring the tightness of all bolts. Proper greasing/oil top-up.

f. Ensuring the proper function of Inlet/outlet pressure gauges

g. Ensuring proper functioning of Inlet/outlet valves.

i. Inspection of impeller, shaft, sleeve, gland casing, keys, coupling, bush, bearings condition and the replacement of all damaged parts as per EIC instructions. All these spare parts of pumps (e.g.- Shaft, sleeves, couplings, spiders, bearings, gland, casings, gland packing, fasteners, tie rod, bush, etc.) shall be in the vendors' scope.

j. Painting of pump frame as required. Fabrication & replacement of damaged base frames. The Structural material & the Civil support will only be provided by the MPL. Epoxy based paint is under vendor scope.

Vendor will be painting pump, its base frame, and motor once in a year during winter overhauling.

k. Inspection, rectification/replacement of NRV's of all pumps.

### **Associated Pipelines, Ducts & Dampers**

Full Replacement of all sizes (generally ranges from the ½" to 12") of all types of Valves (Gate, Globe, ball, Pin, etc) including the gaskets & flanges. Repair of valves to be done as per instruction of Engineer -in-charge. For repairing all the consumables, spares, gland, bush, spindle, wheel, blue etc. shall be given by the vendor. The scaffolding material support may be extended to the vendor by MPL as per the availability & requirement. Necessary co-ordination, scaffolding pipe shifting & assisting in scaffolding erection/dismantling are to be provided by the vendor.

Vendor shall repair the leakages in any associated pipelines & ducts. Repair the minor insulation damages in the ducts & pipelines. All the minor insulation material for the ducts & pipelines shall be in vendors' scope.

The necessary painting of Pipelines and valves. All epoxy paint is under vendor scope.

Ensure operation & functioning of the Fire Dampers. Repair /replacement of the malfunctioning dampers.

Repair/replacement of all drain lines up to the nearest drain point.

Cleaning of ducts on weekly basis.

### **Cooling Tower & Outdoor Units for all AC Systems**

- a. Inspection and Cleaning of cooling tower sump.
- b. Inspection/adjustment of float valve operation.
- c. Inspection of drive assembly.
- d. Inspection of the coupling bush, replacement of required.
- e. Ensuring the vibration of the CT Fan within allowable tolerance limit.
- g. Inspection and cleaning of fills. Replacement if required. Fills are under MPL scope.
- i. Inspection of fan blade angle and adjustment as required.
- j. Inspection of fan guard.
- k. Checking of water level inside the cooling tower.
- l. Ensuring proper functioning of Inlet/outlet valves.
- m. Inspection of nozzles. Replacement if required.
- n. All the spares like Float valves, all sizes of valves, fasteners, nozzles, fan, fan blades (if damaged), shaft, paints, cooling tower Covers shall be in the vendors' scope. All repair & replacement of damaged components. All chemicals, fasteners, tools & tackles shall be provided by the vendor.

### **Yearly Major Checks**

Cleaning of cooling water sump.

Inspection of all supports/ plates/hangers and replacement if required.

Inspection and cleaning of fills. Replacement if required.

Attending water leakage if any.

Inspection of nozzles. Replacement, if required.

Inspection, rectification/replacement of inlet and outlet valves of all cooling tower.

Strengthening of base frame.

Painting of the CT fan body, fins, basin, and associated pipelines.

### **Air handling Units**

- a. Monitoring of units and connected chilled water supply and return line.
- b. Monitoring of noise and vibration periodically.
- c. Data recording (Flow/temperature/pressure etc.) and routine checks as per schedule or as per the instruction of the site in charge.
- d. Minor adjustment of valves and other accessories during operation.
- e. Acknowledgement of alarms and rectification of cause immediately.

- f. Carrying out changeover operation whenever necessary/ as per requirements.
- g. Minor troubleshooting in shift and maintenance of recommended spare as per guidance of the Engineer in charge.
- h. Attending emergency call as per the requirement.
- i. Cleaning of cable trench and drainpipes.

#### Monthly Checks

- a. Cleaning of AHU Filter with Approved Cleaning Agent.
- b. Greasing in blower if required.
- c. Alignment check of motor & blower fan.
- d. Inspection of belt condition, its tightness, correction, and replacement, if required.
- e. Inspection of supply & return dampers.
- f. Inspection of diffuser & air flow.
- g. Monitoring of chilled water line.
- h. Inspection of abnormal sound in blower.
- i. Check DPs.
- j. Replacement of damage components like the V-Belt, Pulleys, keys, Bearings, Plummer Blocks, Sleeves, Lock nut, washers, Filters as per the instruction of Engineer-in-charge. Vendor shall keep the stocks of the above-mentioned spares and shall maintain the minimum 1 set of stocks of these items at the site.
- k. Chilled water line valve operation
- l. Check motor panel

#### **Package Air Conditioner**

##### Daily Checks

- a. Round the clock monitoring of units and connected water supply and return line.
- b. Monitoring of noise and vibration periodically.
- c. Data recording (Flow/Temp/Pressure etc.) and routine checks as per schedule or as per the instruction of the site in charge.
- d. Minor adjustment of valves and other accessories during operation.
- e. Acknowledgement of alarms and rectification of cause.
- f. Carrying out changeover operation wherever necessary.
- g. Minor troubleshooting in shift and maintenance of recommended spares as per the guidance of the shift in charge.
- h. Attending emergency calls as per the requirement.

##### Monthly Checks

- a. Cleaning of Filters with the approved cleaning agent & water. Cleaning of the fins, heat exchanger, cooler. All types of cleaning agents are under vendor scope.
- b. Greasing of blower.
- c. Alignment, Repair & Replacement of Blower fan, V belts, Plummer blocks Pulleys, keys, shaft, etc. Replacement of all the damage components like V belt, Pulleys, Keys, Shafts, Bearings. All related spares to be provided by the vendor.
- d. Inspection of supply & return damper. Repair of all malfunctioning dampers.
- e. Inspection of diffuser & air flow.
- f. Strainer cleaning.
- g. Monitoring of chilled water line.
- h. Inspection for abnormal sound in blower and repair it.
- i. Inspection for Condenser water line valve operation.
- j. Cleaning of the dampers, blowers, ducts, all components.
- h. Any refrigerant/gas top-up.

- i. Any leakage attending by Brazing/Gas Welding under vendor scope.
- j. Repair of the base frame.
- k. All internal components repair/replacement as per requirement.

#### Yearly Major Checks

- a. Condenser tube cleaning on yearly basis during winter overhauling job.
- b. Inspection, rectification/replacement of inlet and outlet valves of all PAC.
- c. Filter Replacement.
- d. If the cooling is not proper, then the proper sealing of the surfaces to be done.
- f. The vendor may need to supply the compressor with proper warranty if it is not functioning.

#### **1.2.1.6. Water Softening Plant**

##### Monthly Checks

- a. Checking of water leakages through the pump gland and replace the gland if required.
- b. Coupling alignment check of motor and pump and correction as required.
- c. Inspection of coupling. Replacement if required.
- d. Ensuring the vibration of the pumps within allowable tolerance limit.
- e. Ensuring the tightness of all bolts.
- f. Ensuring the proper function of Inlet/outlet pressure gauges.
- g. Ensuring proper functioning of Inlet/outlet valves.
- h. Submission of the checklist and maintaining log sheet.
- i. Checking of water leakages through the pipelines, joints etc and replacing the same if required.
- j. Operating the water softening plant as per the instruction of OEM.
- k. Periodic changing of filtering media, resins, activated carbon.
- l. Attend any leak from the body & fittings. Arrangement of necessary FRP/FRV/GRP, woven roving, resins, hardeners, pigments for repair shall be in vendors' scope.
- m. All fittings for repair & replacement of PVC/metallic like tee, elbow, bend, reducer, pipes, union, etc, shall be in vendors' scope.
- n. Salt/Hardness Check of Softening plant as per established frequency. Ensure proper regeneration. The hardness must be below the 10.
- o. Maintain the proper log sheet, data for the regeneration & media top-up.
- p. Necessary cleaning, back flushing, media -top up to be done at regular interval to sustain the harness of water within limits.
- q. Ensure that all the tanks are properly sealed. Prevent dust entry.
- s. Chiller tanks to be insulated.

##### Yearly Major Checks

- a. Periodic changing of filtering media, resins, activated carbon etc for efficient running of the system during winter overhauling. All filters, resins, activated carbon, etc. are under vendor scope.
  - b. Replacement of pressure gauges, valves if required.

#### **1.2.1.7 PAN Dehumidifier & Heater**

- a. Proper maintenance & its operation as per requirement.
- b. Maintain the humidity and heating temperature as per requirement.
- c. Proper cleaning of system.

## **1. Consumables & Spares:**

Vendor has to provide all type of consumables e.g., Gland Packing, gaskets, bearings, sleeve, shaft, grease, V-Belt, Copper lugs, lubricating grease, N2 gas, Refrigerants with cylinders, cotton, petrol/diesel for cleaning, grinding wheel, cutting wheel, Teflon tape, oxygen and acetylene cylinders for brazing, brazing rods and shouldering rods, pipe fittings, valves, small NRV (upto 2"), rust removing solutions, CRC, emery papers, markin clothes, acids, pipe fittings, valve internals, softening plant resins & chemicals, gaskets, spares of compressors, refrigerant gauges, controls, thermostats and other equipment spares including electrical items for the completion of the maintenance activities. Contractor to maintain a minimum stock of all the consumables, for e.g., one set of all the necessary spares which includes refrigerant gauges, controls, thermostats, no volt coils and fuses, V-Belt, Copper lugs, Timers etc.

No spares will be provided by MPL.

## **2. Tools & Equipment**

All the required tools and equipment required shall be arranged by vendor. All the statutory requirements of the tools need to be fulfilled by the vendor. The necessary testing certificates of tools & tackles from the competent person approved by Govt. of Jharkhand/ MPL.

Dial gauges, Slings, Portable Welding machines, cables, Gas Cutting Set, chain Blocks, alignment kit, Gas pressure checking and filling arrangements, punch, pumps for the tube cleaning, hydraulic & water hoses, etc. required for the full completion of the work.

The intra plant movement of all materials except that of major equipment shall be in the vendor's scope.

## **3. Items not covered (Exclusions):**

1. Any civil, major ducting & insulation work.
2. Any major repair / replacement of false ceiling, structural works.

Contract period: The contract period will be valid for 03 years & its on performance based, firstly effective from 01<sup>st</sup> Sept' 2026 to 31<sup>st</sup> Aug' 2027.

The bidder shall possess the capability to initiate services within 03 weeks from the receipt of Letter of Intent (LOI) or Purchase Order (PO)

Above is only brief description of scope of work and Detailed scope of work including Detailed Terms & Conditions shall be shared during RFQ/ Bidding stage to the interested bidder submitting valid EOI, which will specify detailed scope of work and terms & conditions of proposed tender/contract.

## Annexure-I

**This is a List of Major Installations. The list is not exhaustive. It gives the glimpse of major installations. The associated motor, pumps, panels, Feeder, controllers, headers, dampers, etc. shall add-on.**

S. No.	Equipment Name	No. Of Units	Location
1	<p><b>Screw Chiller Unit</b>            No. of screw chilling package: ( 2W+1 standby)            Make: Voltas            Capacity: 240TR            Refrigerant: R 134A            Compressor Type : Semi Hermetic Screw Compressor            Model:9561 -160Y            Operating Speed:- 2900 RPM,            Motor rating : 200 KW            Chiller: Shell and Tube type            Model No- ERDX2402P-2,No. of Pass 2            Capacity - 240 TR            Condenser:- Water Cooled            Condenser Model No- 09166,QTY 2 Nos. per Unit</p>	2W + 1S	AC Plant Room (Zero M)
2	<p><b>Chilled Water Pumps</b>            Make: Kirloskar Brothers Ltd.            Model No- CE 80/40            Design Capacity: 200 m3/hr            Total Head 35 M            Speed 1425 RPM            Motor Rating 30 KW            No. of Stage- Single            Lubrication - Grease</p>	2W + 1S	AC Plant Room ( Zero M)
3	<p><b>Condenser Water Pumps</b>            Make: Kirloskar Brothers Ltd.            Model CE 100/32            Design Capacity 200 m3/hr            Total Head 35 M            Pump Speed 1425 rpm            Motor Rating 30 KW            No. of Stage: - Single            Lubrication- Grease</p>	2W + 1S	AC Plant Room (Zero M)
4	<p><b>Cooling Tower</b>            Make: - Mihir Polacel,            Type of tower: Cross flow,            Fan Speed: 400RPM,            Fan Drive- Gear Coupling cum Bush Type            Gear Make- Premium Transmission Ltd            Gear Model No- SBC 160/2 88/300-38 (Spiral Bevel)            Gear Ratio: - 2.71:1            Motor Rating 12.5 HP, RPM 1460</p>	2W + 1S	TG Building ( 36 M)
5	<p><b>Air Handling Unit</b>            Nos of AHU 4 Nos.            Make- Voltas            Model V-320 H            Fan Make- Krugger BDB 800 TM, 19500 CFM, 41 TR, Backward Curved Blade.</p>	3W+1S	TG Building (24 M)

6	<b>Air Handling Unit TG 8.5 M</b> Make - Voltas Make- Voltas. Model V- 470H Fan Make- Krugger BDB, 900 TM, 28000 CFM, 47 TR	1W + 1S	TG Building 8.5 M
7	<b>Air Handling Unit ESP Unit #1</b> Model ACV470W009B Capacity in CFM- 28000 Total Static Pressure- 60 MM TAG No- V-470H	2W + 1S	ESP Control Room (Unit #1)
8	<b>Air Handling Unit ESP Unit #2</b> Model ACV470W009B Capacity in CFM- 28000 Total Static Pressure- 60 MM TAG No- V-470H SR. No. - P000001, P000002 & P000003	2W + 1S	ESP Control Room (Unit #2)
9	<b>AHP PAC</b> <b>Model No- DPW1983R1-I</b> Serial No- DPW1983R1-I10F00326 AND DPW1983R1-I10F00327 Nom. Capacity- 49500 Kcal/Hr Power- 415 V, 3Ph, 50 Hz Rated Current- 29 Amps R22 Gas Charge- 9.6 Kg	1W + 1S	AHP Control Room
10	<b>AHP AC Condenser Pump</b> Make- Kirloskar Brothers Limited Type- KDS-3... SI No- A1AIY... Size- 50 X 40 mm Head - 30 M Head Range- 22.0 - 33.0 LPS- 3.3 Capacity- Rpm- 2840 Overall Efficiency- 40 % Kw/HP- 2.2 /3.0; 415 Volt; 4.7 Amp.	1 W + 1S	AHP Control Room
11	<b>Technical Building PAC (Package ACs)</b> All Floor ACs (17/11 TR)	Each floor has 1 Working & 1 Standby System	1st, 2nd, 3rd & 4th Floor @ Technical Building
12	<b>Fresh Air Fans</b>	All Working	At Every AHU & PAC Rooms.
13	<b>Pan Dehumidifier (18/12/9 KW)</b>		At Every AHUs Room

### LIST OF CRITICAL EQUIPMENTS

Sl. No.	Equipment Name	No. Of Units	Location
1	Screw Chiller Unit	2W + 1S	AC Plant Room (Zero M)

2	Chilled Water Pump	2W + 1S	AC Plant Room (Zero M)
3	Condenser Water Pump	2W + 1S	AC Plant Room (Zero M)
4	Cooling Tower	2W + 1S	TG Building (36 M)
4	Air Handling Unit	3W+1S	TG Building (24 M)
6	Air Handling Unit	2W + 1S	ESP Control Room (Unit #1)
7	Air Handling Unit	2W + 1S	ESP Control Room (Unit #2)
8	Package AC (17TR)	2W	Third Floor Technical Building
9	Package AC (17TR)	2W	Fourth Floor Technical Building
10	Cooling Tower	1W + 1S	Top of Technical Building
11	Package AC	1W + 1S	AHP Control Room

**SLA:**

Linkage	Parameters	Target	Unit	Non-Compliance Penalties
PMI	Adherence to Planned Maintenance/Overhauling Schedule	100%	Percentage	Rs 10,000/ equipment (for PM job) and Rs 50,000/ equipment/ equipment (for winter overhauling job for Non-Compliance.
PMI	Equipment Availability of Critical Equipment	>=99%	Percentage	Deduction of Rs 25,000/ 1% down
PMI	Equipment Availability of Non-Critical Equipment	>99%	Percentage	Rs 25, 000 per instance per equipment.
PMI	Spares Availability	>=99%	Percentage	Rs 10,000 per day per equipment. If, the MPL arranges the spares, then 1.5 times the landing cost will be recovered.
BMI	Breakdown Revival duration Per Equipment-Critical Equipment (MTTR)	<5	Hrs per Month in totality	Rs 10,000 per instance per Critical equipment
BMI	Breakdown Revival duration Per Equipment of Non-Critical Equipment	<12	Hrs per Month in totality	Rs 5,000 per instance per Non-Critical Equipment

BMI	Submission of RCA of accidents/Incidents within a week & its corrective action	<7	Days	Rs 5,000 PM for non-compliance.
Testing	Adherence to Testing of Tools & Tackles	100%	As & when required	Rs 5,000 PM for non-compliance.
S+5S	Safety compliance and 5S maintain at AC system	100	Percentage	Rs 10,000 per instance per location (refer attached 5S checklist)
Other	Loss/ damage to equipment due to poor handling & servicing	0	Nos.	1.2 times the current price (landed cost) of the damaged components.
Other	Timely submission of correct Daily reports, Checklists, Monthly Reports, Annual Overhauling reports as per the specified format. Timely Reporting of defects, its Corrective Action, Condition monitoring, Breakdown or any kind of activities must be reported timely.	100	percentage	Rs 5,000 Per month for the Non-Compliance.
Other	Non- sustenance of required temperature	0	Nos	Rs 20,000 per instance per Critical equipment Rs 10,000 per instance for Non-Critical Area.
Other	Non- Optimisation of Power Consumption	0	Nos	Rs 5,000 per instance per equipment

#### **5. TENDER FEE & TIMELINES:**

- a) Interested parties meeting the pre-qualification criteria specified elsewhere in this document can request for Bid Document and participate in the bidding process by submitting their Expression of Interest (EOI) and credentials along with the Tender Fee **not later than 25<sup>th</sup> April 2026**. Request for Bid Document/EOI will be not be entertained EOIs submitted beyond this deadline may be liable for rejection.
- b) Non-Refundable Tender Fee, as indicated in table above, in the form of direct deposit in the following bank account 5

Details for payment of Tender Fee:	
Bank details for submitting Tender fees through bank transfer / NEFT:	Beneficiary Name – Maithon power Limited Bank Name – State bank of India Branch Name – CAG, Mumbai (09995) Address – Neville House, 23 J. N. Heredia Marg, Ballard Estate, Mumbai-400001 Branch Code –09995 Account No – 00000031828734113 Account type – CC IFSC Code – SBIN0009995
Deadline for tender fee payment and submission of EOI:	25 <sup>th</sup> April 2026

It may be please be noted that all future correspondence will be strictly done only with Interested Bidders who have done the above steps in time with Authorized Person only through MPL E-Tender System.

C) 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

**BIDDER PRE-QUALIFICATION CRITERIA:**

Interested parties to note that Bidder shall be required to fulfill the following conditions and submit relevant supporting documents for each of the following criteria along with the Bid. Bidder must fulfill the following bidder pre-qualification requirement / criteria in order 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.

**TECHNICAL REQUIREMENT:**

- 1) The Bidder should have carried out minimum 2 nos. of similar kind of jobs of O&M of HVAC system in last 5 years in unit capacity of  $\geq 210$  MW coal-based pulverized fuel power plant system in NTPC, TATA Power, Jindal Power, and Adani Power.
- 2) Bidder should be experienced to working with HVAC system like compressor, chiller units, air handling unit, package AC system, softening unit, pumps, cooling tower system, etc. Maintain the desired temperature at control room, technical/ service building, Ash plant control room, VFD room, etc. based on requirement.
- 3) Bidder shall provide 2 Purchase Orders of similar experience as above as PO of value not less than 50 lakhs (excluding Taxes) per year.
- 4) Bidders have good performance and track records for the Tata Power in past execution of PO.
- 5) Bidders have to submit Job satisfactory certificate/Completion certificate along with the PO copy.

**FINANCIAL REQUIREMENT:**

The Bidder shall have adequate financial resources to execute the Contract concurrently with his other commitments and shall meet the following condition:

1. The bidder must have average annual turnover of not less than Rs. 1 Crores in any of the past two financial years out of FY 2022-23, 2023-24, 2024-25 & 2025-26, (Audited Balance Sheet, Profit & Loss Account Statement for turnover shall be submitted as a supporting document).
2. Certified Copy of service Tax registration and Service Tax return for last Three years.
- 3) In case the audited documents are not ready / available, then certified copy by a registered practicing Chartered Accountant may be submitted.

**SAFETY REQUIREMENT:**

- Safety Records---Please provide safety record for last three years. OHSAS : 18001or 45001 Certificate, ISO 14001 ,9001 Certificate
- Scope of Work & BASCC will be provide at the time of RFQ

**BID SECURITY/EMD(To be submitted along with RFQ and not with EOI):**

Interested parties to note that Bidder is required to furnish a Bid Security along with their Bid (only during Bid Submission stage), as a Bank Guarantee (in the format prescribed in Bid Document) or as NEFT/RTGS/DD for an amount of INR 1,74,000/- (Indian Rupees One Lac seventy four Only). 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.