



**OWNER:
THE TATA POWER COMPANY LIMITED**

**PROJECT MANAGER:
MUNDRA THERMAL POWER STATION**

**PROJECT:
SUPPLY, ERECTION & COMMISSIONING OF PRECESSION AC SYSTEM
AT
5 X 830 MW MUNDRA THERMAL POWER STATION,
KUTCH, GUJARAT (INDIA)**

ENQ. REF. NO.: MTPS24MD_3500008635 - PRECESSION AC SYSTEM

EXPRESSION OF INTEREST (EOI)

SUPPLY, ERECTION & COMMISSIONING OF PRECESSION AC SYSTEM

Enquiry reference no.: - MTPS24MD_3500008635 - PRECESSION AC SYSTEM
Name of Package: SUPPLY, ERECTION & COMMISSIONING OF PRECESSION AC SYSTEM AT 5 X 830 MW MUNDRA THERMAL POWER STATION, KUTCH, GUJARAT (INDIA)
Type of Bidding: E-tendering / Two Part
Contact Details: 1. Mrs. Anil Agarwal, Head – Contracts & Materials, Mobile: 9250008964, E-mail: Anil.agarwal@tatapower.com 2. Mr. Manas Deshmukh, Lead Engineer - Procurement, Mobile: 7763803500, Email: manasd@tatapower.com 3. Mr. Abhijit Patil, Group Head - MMD, Mobile: 8866058665, Email: abhijit.patil@tatapower.com The Tata Power Co. Limited, Mundra Thermal Power Station, Tunda Vandh Road, Tunda Village, Mundra, Kutch, Gujarat - 370435 Website: https://www.tatapower.com/tender/tenderlist.aspx

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

Description	Bid Security (EMD)	Tender Fee
SUPPLY, ERECTION & COMMISSIONING OF PRECESSION AC SYSTEM	INR 50,000/-	INR 2,000/-

Please note that corresponding details mentioned in this document will supersede any other details mentioned anywhere else in the Tender Document.

Procedure for Participating in Tender. Following steps to be done before “Last date and time for Payment of Tender Participation Fee” as mentioned later.

- 1. For Regular Bidders-** Non-Refundable Tender Participation Fee, as indicated in table above, to be submitted in the form of direct deposit in the following bank account and submit the receipt along with a covering letter clearly indicating the Tender Reference number.
- 2. Authorization letter-** Eligible and Interested Bidders to submit duly signed and stamped letter on Bidder's letterhead indicating,
 - a) Tender Enquiry number
 - b) Name of authorized person
 - c) Contact Number
 - d) E-mail id

- e) Details of submission of Tender Participation Fee
- f) Copy of Cancelled Cheque

E-mail with necessary attachments as per step 1 and 2, as indicated above to be sent to manasd@tatapower.com with copy to anil.agarwal@tatapower.com before “Last date and time for Payment of Tender Participation Fee”, after which link from Tata Power E-Tender system (Ariba) will be shared for further communication and bid submission.

Please note all future correspondence regarding the tender, bid submission, bid submission date extension, Pre-bid query etc. will be only through Tata Power E-Tender system (Ariba). User manual to guide the bidders to submit the bid through e-Tender system (Ariba) is also enclosed.

No e-mail or verbal correspondence will be responded. All communication will be done strictly with the bidder who have complied with above steps to participate in the Tender.

Also, it may be strictly noted that once date of “Last date and time for Payment of Tender Participation Fee” is lapsed no Bidder will be sent link from Tata Power E-Tender System (Ariba). Without this link vendor will not be able to participate in the tender. Any last moment request to participate in tender will not be entertained.

Any payment of Tender Participation Fee / EMD by Bidder who have not done the prerequisite within stipulated timeline will not be refunded.

1. INTRODUCTION:

The Tata Power Company Limited (TPCL) 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.

Tata Company is hereby inviting Expression of Interest (EOI) from interested and eligible parties for SUPPLY, ERECTION & COMMISSIONING OF PRECESSION AC SYSTEM.

A brief overview of Owner and Site is given below:

Site Name	Mundra Thermal Power Station, Mundra Taluka, Kutch District, Gujarat
Owner	Tata Power Co. Ltd.
Site Location	The Tata Power Co. Ltd., Mundra Thermal Power Station, Opp. Kala Raksha, Tunda - Vand Road, Village: Tunda, Taulka : Mundra, District: Kutch, Gujarat. - Latitude: 22.8396° N - Longitude: 69.7241° E
Plant Elevation	Above Mean Sea Level

Nearest Rail Head	Gandhidham
Climatic conditions	<p>Temperatures: a) Summer Temp. – 25 Deg. C to 45 Deg. C b) Winter Temp. – 15 Deg. C to 35 Deg. C</p> <p>Relative Humidity: a) Maximum – 81% b) Minimum – 35%</p>

2. Technical Data Sheet of Precision Air Conditioner (PAC):

Sr No	Description	Unit	Technical Particulars
General			
1	Designation		Precision Air Conditioner (PAC) for Thyristor Panel Room of TG Building
2	Place of Manufacture		India
3	Capacity of Each PAC at design Conditions	TR	20 TR (20 Deg. C IDB/ 50% RH/ 42 Deg. C ODB)
4	Refrigerant		R407C
5	Overall size (LDH)	mm	2553x 874x 1970
6	Clearance required on all sides	mm	Front- 900, Back- 100, Sides- 100, Top-400
7	Noise Level (PAC)	dBA	70- 72 @ 1.86 Meter
8	Noise Level (Air Cooled Condenser)	dBA	70 @ 2 Meter
9	Number of Refrigeration circuits		2
10	Total Input Power at designed Conditions	KW	31.16 (Compressor + Condenser + Blower Fan)
11	Type		Hermetic
12	Number of Compressors		2
13	Suction Temperature	Deg. C	8 to 10
14	Suction Pressure		72 to 78 Inches of Hg
15	Condensing Temperature	Deg. C	53
16	Condensing Pressure		298 Inches of Hg
17	Operating speed	RPM	2700
18	Input power at designed conditions	KW	20.2
19	Motor rating	KW	20.2
20	Capacity Control Available		YES
21	In step of		(100 - 50 -0%)
AIR HANDLING SECTION			
1	Capacity of Each Fan	M3/ Hr	6900 (SETTABLE)
2	Static Pressure	mm WC	50
3	Static pressure External to the PAC	mm WC	20
4	Discharge Direction		Vertical Down
5	Impeller Speed	RPM	1200
6	Outlet Velocity	M/Sec	7.8

Sr No	Description	Unit	Technical Particulars
AIR HANDLING SECTION			
7	Impeller Material		AL
8	Power Input to motor at Duty Point	KW	1.6
9	Number of Cooling Coils		2
10	Sensible Cooling Capacity at designed Conditions	Kcal/Hr	61576
11	Latent Cooling Capacity At Design Condition	Kcal/Hr	3698
12	Face area	M2	3.02
13	Tube Outside Diameter and Thickness	mm	9.5MM/ 0.31MM
14	Number of Row Deep		2
15	Numbers of Fins per Centimetre		5.51
16	Air Face Velocity	M/Sec	1.9
17	Air side Pressure Drop	mm WC	10
18	Numbers of Filters		3
19	Filter Material		HDPE
20	Overall size of each Filter (LXB)	mm	785x785
21	Air side pressure drop at rated capacity	mm WC	2 (at clean condition)/ 4 (at dirty Condition)
CONDENSER			
1	Type		AIR Cooled
2	Number of Condensers		2
3	Heat rejection Capacity at designed Conditions	Kcal/Hr	79120
4	Overall size of Fan and coil unit of each other condenser	mm	1418 X1870 X879
5	Maximum permissible Distance between Condenser and inside unit	M	Vertical- 20, Total- 60
6	Number of each Condenser fan		4
7	Capacity of each fan	M3/ Hr	6120
8	Static pressure	mm WC	FREE DISCHARGE
9	Impeller Material		AL (STELL BLADE ON 350MM)
10	Input power of each Fan	KW	0.77
11	Motor rating of each Fan	KW	0.77
ACCESSORIES			
1	Heating		YES
2	Type		ELECTRIC
3	Number of Heaters		ONE
4	Rating per Heater	KW	9
5	Humidifier		YES

Sr No	Description	Unit	Technical Particulars
ACCESSORIES			
6	Type		IMMERSED Electrode/IR
7	Maximum water consumption	Kg/Hr	10
8	Electric Heater rating for electrically Heated electrode/ Fan type Humidifier	KW	7.5
9	Type of vibration Isolators		VI PAD
PERFORMANCE GUARANTEES			
1	Cap of each PAC at design conditions	TR	20.36
2	Total Power Input at design conditions	KW	31.16 +/- 3%
3	Static pressure external to PAC	mm WC	20 +/- 3%
4	Dehumidified Air flow capacity at specified external static pressure	M3/ Hr	20700 +/- 3%

3. 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 30.07.2024**. Request for Bid Document/EOI will not be entertained beyond this deadline.
- b) Interested parties to submit Non-Refundable tender fee, as indicated in the table above, in the form of crossed demand draft/banker's cheque/pay order/ NEFT (details given in table below) in the name of "The Tata Power Co. Ltd." payable at par at all branches in Mumbai along with a covering letter duly stamped and signed by an authorized signatory clearly indicating the Tender Reference number, your EOI to participate in the tendering process and indicating name of authorized person, contact number / e-mail id (mandatory) with NEFT details (if the tender fee is paid using NEFT) on Bidder's letterhead. It is mandatory to mention Tender Reference no. in the said letter.

Details for payment of Tender Fee and EMD:	
Bank details for submitting Tender fees through bank transfer/ NEFT:	Account Name : Tata Power Co Ltd. Account Number : 30545457373 Bank Name : State Bank of India Bank Branch : CAG, Fort, Mumbai IFSC Code : SBIN0009995
Deadline for tender fee payment and submission of EOI:	30th July 2024

- c) Detailed Bid Document (also referred as RFQ) shall be issued through Tata Power e-tender portal (ARIBA) only to the parties whose EOI meeting above mentioned requirements are received by the deadline mentioned above.

4. BID SECURITY:

Interested parties to note that Bidder is required to furnish a Bid Security along with their Bid, in the form of Bank Transfer (NEFT/ IMPS) for an amount of INR 50000/- (Fifty Thousand only) and Bids not accompanied by an acceptable Bid Security shall be rejected by the Owner as being nonresponsive and returned to the bidder without being opened.

5. PRE-QUALIFICATION CRITERIA:

Interested parties to note that Bidder shall be required to fulfil the following conditions and submit relevant supporting documents for each of the following criteria along with the Bid.

a. TECHNICAL:

The bidder needs experience in supplying, erecting, and commissioning precision air conditioners (AC) with a capacity of 22TR and above.

The bidder must provide a certificate demonstrating successful installation and commissioning of a precision AC unit that operates under ambient outdoor temperatures exceeding 50°C.

The bidder should have more than 10 years of experience in manufacturing precision AC units with a capacity of 22TR and above.

The bidder must furnish references for at least 10 purchase orders of similar precision AC units meeting the above criteria within the last 5 years. Supporting Documents may be asked as evidence on later stage.

Experience details should be submitted as per the following table format:

1	2	3	4	5
Sr. No.	Client details	Order No. Date & Year	Order value (Rs. Lakhs)	Brief details

b. FINANCIAL:

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

- i. The bidder shall have during the last three financial years an Average Annual Turn Over of not less than Rs. 5.0 Crores or its equivalent in any other currency related to tender business only.
- ii. Bidder to submit the following supporting documents:
 - Certified Copy of GST registration and GST return for last Two Years.
 - Certified Audited Report of Bidders for last 3 Years.

6. BIDDING PROCESS:

- i. Detailed Bid Document (also referred as RFQ) shall be issued through Tata Power e-tender portal (SAP Ariba System) only to the parties submitting a valid EOI as per terms mentioned, in this Tender Notice.
- ii. Bidders to note that bidding for subject tender may be conducted through e-auction. Detailed bidding and auction process shall be detailed during RFQ/Bidding Stage.

- iii. Please note, Bidders are currently required to submit EOI and relevant documents through E-mail addresses mentioned above only. No need to send physical mail/courier.