



# Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

An ISO 9001  
Company

<b>ENQUIRY</b>	Phone: +91 431 257 7653 Fax : +91 431 257 6826 Email : <a href="mailto:skaruna@bheltry.co.in">skaruna@bheltry.co.in</a> Web : <a href="http://www.bhel.com">www.bhel.com</a>
<b>NOTICE INVITING TENDER</b>	

<b>TWO PART BID</b>	<b>Enquiry Number:</b>	<b>Enquiry Date:</b>	<b>Due date for submission of quotation:</b>
Tender to be submitted in two Parts	<b>2741500003</b>	<b>29.09.2015</b>	<b>30.10.2015</b>

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the tender should be submitted online on or before the due date by 14.00 Hrs (IST). Tenders received after 14.00 Hrs (IST) will not be considered for evaluation.

Item	Description	Quantity
10	500 CFM Air Dryer as per the technical specification & commercial conditions applicable (to be downloaded from web site <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://tenders.gov.in">http://tenders.gov.in</a> or <a href="https://bheleps.buyjunction.in">https://bheleps.buyjunction.in</a> )	3.00 Nos.

**Important points to be taken care during submission of offer**


1. Material shall be delivered to  
Indigenous Vendors:  
FOR, BHEL, Stores  
Power Plant Piping Unit  
Thirumayam, Pudukkottai Dist.
2. Delivery required 8 Weeks from the date of purchase order.
3. Erection & Commissioning period required 4 Weeks from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.
4. EMD for this Tender will be ( INR ) : 60,000.00
5. Checklist No: TMM/IND/06 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
6. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (refer MM / CE / EPROC / GENL / 001-EMD) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from <https://bheleps.buyjunction.in> or BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under above Enquiry reference.

Tenders should be submitted online at our above indicated web portal before 14:00 hours on the due date Tenders will be opened online at 14:30 hours on the due date.	Yours faithfully, For <b> BHARAT HEAVY ELECTRICALS LIMITED</b>  DGM / Capital Equipment / MM
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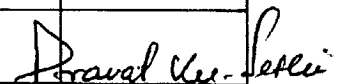
**PART A : QUALIFYING CRITERIA OF - AIR DRYER  
(FOR DRYING OF COMPRESSED AIR FROM 500 CFM SCREW COMPRESSOR)**

SL NO	BHEL REQUIREMENT	VENDOR'S OFFER
1	The Bidder/Vendor has to compulsorily meet the following requirements to get qualified for consideration of technical offer. If the Bidder/Vendor does not qualify as per pre-qualification criteria, technical offer of such Bidder/Vendor will not be considered further.	
2	The Bidder/Vendor should be an OEM or authorized dealer of the 500 CFM Air Dryer <sup>or</sup> more. In case of dealers, valid dealership certificate should be submitted along with the offer, failing which the offer will not be considered.	
3	The Bidder/Vendor should have supplied 5Nos of the offered model of Air Dryers in the last 5 Years and such Air Dryers are presently working satisfactorily. Bidder/Vendor to provide the list of customers with contact details.	
4	The Bidder/vendor should enclose atleast one performance certificate of the offered model supplied in last 5 years, from their customers, for satisfactory performance of the Air Dryer for atleast 12 months after commissioning (as on the date of opening of tender).	
5	The reference list of customers to whom earlier supplies were made shall be attached with the details (Name, Phone No. / E-mail ID) of the contact person for the cross reference by BHEL.	
6	Vendor to Provide details like "Year of launch of the model quoted against this enquiry" & "Number of Dryer Units (model quoted against this enquiry) supplied and commissioned till date.	
7	Any deviation in the technical specification may lead to rejection of the offer.	


  
**PRAVAT KUMAR SETHI**  
 Sr. Engineer / Gas Services  
 PPPU - BHEL  
 Thiruvananthapuram - 622 507

**PART B : TECHNICAL SPECIFICATION OF - AIR DRYER  
(FOR DRYING OF COMPRESSED AIR FROM 500 CFM SCREW COMPRESSOR)**

SCOPE:	SUPPLY, ERECTION & COMMISSIONING OF 3 NOS OF "AIR DRYER UNIT" COMPLYING WITH SPECIFICATIONS AS MENTIONED BELOW:				
SL NO	PARAMETER DESCRIPTION	BHEL REQUIREMENT	BHEL REMARKS	OFFERED	DEVIATION
1	MAKE OF AIR DRYER		Vendor to Specify		
2	WORKING PRINCIPLE	Refrigerant Type Air Dryer	Vendor to Confirm		
3	AIR FLOW (CFM)	To suit 500 CFM COMPRESSED AIR (Dryer Capacity should not be less than 550 CFM)	Vendor to Specify		
4	AIR FLOW (cu.m/min)		Vendor to Specify		
5	MAXIMUM OPERATING PRESSURE OF DRYER	10 Bar or more.	Vendor to Specify		
6	INLET AIR CONDITION (TO DRYER)	Inlet Air Pressure: 5-7 Bar Temperature: 40-55 Deg C	Vendor to Specify		
7	OUTLET AIR CONDITION (FROM DRYER)	Outlet Air Pressure: 5-7 Bar Temperature: 30-45 Deg C	Vendor to Specify		
8	MAX PRESSURE DROP ACROSS THE DRYER	Should not exceed 0.2 Bar at maximum flow	Vendor to Specify		
9	OUTPUT AIR DEW POINT	2° to 8° C	Vendor to Specify		
10	REFRIGERANT COMPRESSOR	Make & Model:	Vendor to Specify		
		Type: Hermetically Sealed	Vendor to Confirm		
		Refrigerant: R134a / R407C	Vendor to Specify		
		Material of Construction of tubes: Copper	Vendor to Confirm		
		Air to air Heat Exchanger: Steel Finned Heat Exchanger	Vendor to Confirm		
		Electric Motor Should be Energy Efficient (EFF-1)	Vendor to Confirm		
11	COOLING MEDIUM FOR REFRIGERANT	AIR COOLED	Vendor to Confirm		

  
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12	REMOVAL OF MOISTURE	Vendor should provide Moisture Separator with Automatic Drain Valve (Size: ½ INCH)	Vendor to Specify		
13	INLET & OUTLET PIPE SIZE	Inlet Pipe Size: 2 Inch	Vendor to Confirm		
		Outlet Pipe Size: 2 Inch	Vendor to Confirm		
14	POWER SUPPLY	Power Supply for the Dryer : 415 V +/- 10% , 3 Phase, 50 Hz +/-3%	Vendor to Confirm		
15	POWER REQUIREMENT OF DRYER	Total connected power required for Air Dryer in kW	Vendor to Specify		
16	ENVIRONMENT CONDITION	The Dryer should be suitable to operate in Ambient Temperature Range of 30 to 50 Deg C. Relative Humidity: 95% Max	Vendor to Specify		
17	WEIGHT & DIMENSION	Vendor should provide the Weight & Dimension details	Vendor to Specify		
18	MAX NOISE LEVEL	Less than 75 dB	Vendor to Specify		
20	O&M MANUALS	3 Sets of Operation & Maintenance Manuals in English Language and its soft copies in CD should be supplied along with the equipment.	Vendor to Confirm		
21	QUALITY PLAN	Vendor should submit quality plan for BHEL approval after placement of order.	Vendor to Confirm		
22	PRE-DISPATCH INSPECTION	Pre-Dispatch inspection will be carried out by BHEL representative at Vendors Works. Vendor should arrange for run test during the inspection at vendors works.	Vendor to Confirm		
23	ERECTION AND COMMISSIONING	Final Acceptance will be done at BHEL, PPPU, Thirumayam during the commissioning of the Air Dryer. Performance Prove out trials to be carried out by the vendor during commissioning at BHEL Works.	Vendor to Confirm		
24	TRAINING ON O&M	Vendor should provide Operation & Maintenance Training to BHEL Employees during commissioning.	Vendor to Specify		

  
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25	PERFORMANCE GUARANTEE	12 Months from date of Commissioning or 18 Months from the date of supply whichever is earlier.	Vendor to Confirm		
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*Pravat Kumar Sethi*  
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