

	<b>BHARAT HEAVY ELECTRICAL LIMITED</b>	<b>Enquiry No. :</b>
	<b>Ramachandrapuram:: Hyderabad-32</b>	<b>Due Date :</b>
	<b>B. RAVI KUMAR DGM/PUR-CG</b>	<b>Supplier Qtn. No.:</b>
	<b>PHONE: 040-2318 2250</b> <b>FAX NO: 040-2318 6173</b>	<b>Date :</b>

**SPECIFICATION CUM COMPLIANCE OF TWO STAGE RECIPROCATING AIR COMPRESSOR**

1. Vendor must submit complete information against clause no. 13. The offer meeting this clause would only be further processed.

2. The offer and all documents enclosed with offer should be in English language only.

**3. Incomplete offers, offers with ambiguous information are liable for rejection, without any intimation.**

<b>NAME &amp; ADDRESS OF THE SUPPLIER :</b>	<b>NAME &amp; ADDRESS OF THE INDIAN AGENT :</b>
<b>TELEPHONE NOS.:</b>	<b>TELEPHONE NOS.:</b>
<b>FAX NOS.:</b>	<b>FAX NOS.:</b>
<b>E-MAIL ADDRESS :</b>	<b>E-MAIL ADDRESS :</b>

**SCOPE: SUPPLY, ERECTION & COMMISSIONING OF RECIPROCATING AIR COMPRESSORS**

SNO	DESCRIPTION FOR BHEL REQUIREMENT	Vendor to specify/Confirm	OFFERED Parameters	DEVIATIONS	REMARKS
<b>1.0</b>	<b>PURPOSE &amp; WORKPIECE MATERIAL</b>				
1.1	Purpose: (Operations/Jobs involved) : It will be used for operating the hand grinders.	Vendor to note			
<b>2.0</b>	<b>Basic Parameter</b>				
2.1	Type:Horizon Two-Stage Reciprocating air compressor	Vendor to Confirm			
2.2	Free air delivery : 30 CFM ( minimum)	Vendor to Confirm			
2.3	Unloading pressure: 12 Kg/cm2	Vendor to Confirm			
2.4	Working Pressure : 7 Bar	Vendor to Confirm			
2.5	No of Stages : Two	Vendor to Confirm			
2.6	Make of compressor ( It should be Ingersoll Rand or Elgi)	Vendor to Confirm			
<b>3.0</b>	<b>COMPRESOR PACKAGE</b>				
3.1	Horizontal Receiver with 300 liter capacity	Vendor to Confirm			
3.2	Code of construction for receiver-BS:5169-1975	Vendor to Confirm			

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3.3	Temperature range of receiver-150 deg. Centigrade	Vendor to Confirm			
3.4	Suction air intake filter	Vendor to Confirm			
3.5	Receiver fittings like Safety valve, Drain Valve, Pressure gauge, Automatic Pressure Switch , Motor Pulley , V- Belt and Belt Guard should be provided.	Vendor to Confirm			
3.6	Type of inter stage cooling- Air Cooling	Vendor to Confirm			
<b>4.0</b>	<b>DRIVE</b>				
4.1	Motor Rating -10HP ( Min.)	Vendor to Confirm			
4.2	Main motor type and rating- Squirrel Cage Induction Motor TEFC Type with suitable starter , for 415V $\pm$ 10% , 50HZ $\pm$ 3% , 3 Phase AC	Vendor to Confirm			
4.3	Make of the Motor- It should be of Crompton Greeves, Bharat Bijli, Ingersoll rand or Siemens	Vendor to Confirm			
4.4	Auto start or stop of comperssor as per the demand	Vendor to Confirm			
<b>5.0</b>	<b>ENVIRONMENTAL PERFORMANCE OF THE MACHINE :</b>				
5.1	If any safety / environmental protection enclosure is required it should be built in the machine by the vendor.	Vendor to confirm			
5.2	Maximum noise level shall be 85 dB(A) at normal load condition, 1 meter away from the machine with correction factor for back ground noise, if necessary.	Vendor to confirm			
<b>6.0</b>	<b>SPARES</b>				
6.1	Itemized breakup of mechanical,electrical and electronic spares used in the machine in sufficient quantity as per recommendation of Vendor for 2 years of trouble free operation on three shifts continuous running basis shall be offered by vendor. (Unit Price for each item of spare shall be offered) electrical and electronic spares used in the machine in sufficient quantity as per recommendation of Vendor for 2 years of trouble free operation on three shifts continuous running basis shall be offered by vendor.	Vendor to specify			
<b>7.0</b>	<b>DOCUMENTATION :</b>				
7.1	Five sets of following documents (Hard copies) in English language should be supplied along with the machine	Vendor to confirm			

SNO	DESCRIPTION FOR BHEL REQUIREMENT	Vendor to specify/Confirm	OFFERED Parameters	DEVIATIONS	REMARKS
7.2	Operating and maintenance manuals of Machine and all supplied accessories to be supplied along with the equipment	Vendor to confirm			
7.3	Complete Master List of parts and spares used in the machine (with identifications, make, model, rating , price ) shall be submitted by the vendor.	Vendor to confirm			
<b>8.0</b>	<b>AMBIENT CONDITIONS &amp; THERMAL STABILITY :</b>				
8.1	Total machine and all supplied items should work trouble free and efficiently under following operating conditions and should give specified accuracies. Ambient Conditions: Temperature = 5 to 45 degree celsius with variation of 25 degree celcius (max), dusty atmosphere. Relative Humidity = 95% max.	Vendor to confirm			
<b>9.0</b>	<b>ERECTION &amp; COMMISSIONING : Test to be carried out by Vendor at BHEL works while commissioning the machine :</b>	Vendor to confirm			
9.1	Demonstration of all features of the machine to the satisfaction of BHEL for their efficient and effective use.	Vendor to confirm			
<b>10.0</b>	<b>PACKING:</b>				
10.1	Rigid packing for all items of complete machine.	Vendor to confirm			
<b>11.0</b>	<b>GUARANTEE :</b>				
11.1	As per BHEL term and conditions.	Vendor to confirm			
<b>12.0</b>	<b>GENERAL : The vendor should submit the following information:</b>				
12.1	Machine Model ( Ingersoll Rand and Elgi only acceptable)	Vendor to specify			
12.2	Total connected load (KVA):	Vendor to specify			
12.3	Total weight of the machine	Vendor to specify			
12.4	Vendor to submit detailed catalog of the equipment model offered.				
<b>13.0</b>	<b>REFERENCE LIST / QUALIFYING CONDITIONS</b>				
13.1	Only those vendors, who have supplied and commissioned atleast one of same or higher sizes for similar applications in the past ten years and such machine is working satisfactorily for more than one year, after commissioning should quote. The following information should be submitted by the vendor about the companies where similar machines have been supplied. This is required from all the vendors for qualification of their offer.	Vendor to submit			
13.2	Name of the customer / company where similar machine is installed.	Vendor to specify			
13.3	Complete postal address of the customer including phone number and e-mail.	Vendor to specify			
13.4	Name and designation of the contact person of the customer,phone number and e-mail.	Vendor to specify			
13.5	Application for which the machine is supplied .	Vendor to specify			