

	BHARAT HEAVY ELECTRICAL LIMITED			Enquiry No. :
	UNIT'S ADDRESS:			Due Date :
	CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL (FROM PURCHASE DEPTT.)			Supplier Qtn. No.:
				Date :

SPECIFICATION HOT AIR BLOWER

	NOTE:-			
	BHARAT HEAVY ELECTRICAL LIMITED			Enquiry No. :
	UNIT'S ADDRESS:			Due Date :
	CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL (FROM PURCHASE DEPTT.)			Supplier Qtn. No.:

SPECIFICATION HOT AIR BLOWER

	NOTE:-			
	1. The "Offered" Column and where applicable, the 'deviations' and 'remarks' column of this format shall be filled in by the vendor and submitted along with the offer. Inadequate/incomplete ambiguous, or unsustainable information against any of the clauses of the Specification/Requirement shall be treated as non compliance.			
	2. The offer and all document in enclosed with offer should be in English language only.			
	3. All the supplied accessories Shall supplied from OEM only			
	4. Vendor must submit complete information against Qualifying Conditions (Clause no. 18.0). The offer meeting this clause would only be processed.			

NAME & ADDRESS OF THE SUPPLIER :					
TELEPHONE NOS.:					
FAX NOS.:					
E-MAIL ADDRESS :					

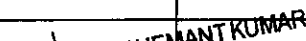
SCOPE: Supply, erection and commissioning Heating Blower. Complying with specifications as below:

SL. NO	DESCRIPTION OF BHEL REQUIREMENT	SPECIFIED/ TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
1.0	<u>PURPOSE</u>				
1.1	Purpose: Portable Hot air Blower used to remove moisture from windings of wound stator so that improved IR can be achieved	Vendor to Note			
2.0	TECHNICAL SPECIFICATION (Minimum Requirement)				

HEMANT KUMAR

2.1	Hot air Temp. required at outlet of Pipe : Variable from 50 to 100 °C as per the requirement of job	Vendor confirm			
2.2	Heater Bank Capacity: 30 KW or Better Input supply: 415 +/- 10% of Volt , 50 +/- 3% Hz , 3 Phase Make and design feature of Heater Bank shall be furnished by vendor in the offer. Heater Bank shall be suitable for duty cycle as per SI no. 2.5	Vendor to specify & confirm			
2.3	Hot air Blower : Capacity -500 CFM Make and Technical specification of Blower shall be furnished by vendor in the offer. Hot air Blower Shall be suitable for Duty cycle as per SI no. 2.5	Vendor to specify & confirm			
2.4	Motor Capacity: 3 KW or Better Make and Technical specification of Blower shall be furnished by vendor in the offer. Hot air Blower Shall be suitable for Duty cycle as per sl no. 2.5	Vendor to specify			
2.5	Duty Cycle for Complete Portable Hot air Blower: Continuous working for minimum 48 Hrs maintaining 70 °C temp at the delivery end of Hot Air outlet pipe (sl no-2.6, 2.7 & 2.8)	Vendor to note & confirm			
2.6	Hot air Outlet Pipe; Inner Dia: 40 mm Length Of Pipe - Minimum 5 Meter	Vendor to note & confirm			
2.7	Material of Pipe: Heat resistant Stainless steel flexible pipe with good quality and long lasting thermal insulation on outer body of pipe to prevent Heat loss. Detail of Thermal insulation shall be furnished by vendor in the offer	Vendor to specify & confirm			
2.8	Quick coupling arrangement shall be provided to fix the hot air outlet pipe with the Heater bank	Vendor to specify & confirm			

2.9	Control Panel: Control panel should have MCB/MCCB,Tempertaure indicating cum controller,interlocking between Heater bank (SI no-3.2) circuit and motor (SI no-3.3.10 circuit of Blower ,Overload protection,contactor, Voltmter,Ammeter,Indicating Lamps and DOL starter etc	Vendor to confirm			
2.10	All electrical items shall be of reputed make Siemens/Fanuc /L&T/CG and all metering devices shall be of MECO/ AE / Yokogawa / OEM make only	Vendor to specify & confirm			
2.11	Trolley mounted system: Complete Heater Bank, Blower, Motor and control Panel will be mounted on a trolley. Trolley should have 4 nos of good quality nylon wheel and a suitable handle for Easy movement of the trolley. Trolley should have 4 nos of Lifting hooks and shall be provided at suitable location on the top base of trolley so that complete unit can be shifted with the help of Overhead crane as and when required	Vendor to specify & confirm			
2.12	Overall size/dimension, weight, complete arrangement of unit shall be furnished by vendor	Vendor to specify & confirm			
2.13	5 mter long electric cable complete with top connections shall be supplied by vendor	Vendor to confirm			
3.0	General Arrangement Drawing:				
3.1	General Arrangement Drawing for the portable hot air blower, must be submitted by the vendor in the offer.	Vendor to specify & confirm			
3.2	Following items shall be indicated in general arrangement drawing: Location of heat bank Location of blower and Motor Location of control panel	Vendor to specify & confirm			
3.3	Vendor shall submit the General Arrangement Drawing, Circuit Diagram etc, for BHEL approval with weeks after placement of Purchase Order.	Vendor to specify & confirm			


 Hemant Kumar
 Manager

4.0	POWER SUPPLY:				
4.1	BHEL will provide electrical supply as detailed out below: : Three phase, 3 wire, 415 + /- 15% volt, 50 +/- 3% Hz to the machine. There will be no neutral wire and earthing will be provided through shop structure column.	Vender to note			
5.0	ENVIRONMENT CONDITION:				
5.1	Portable Hot Air Blower should be suitable for tropical condition with ambient temperature humidity maximum 60%	Vender to confirm			
6.0	OPERATION AND MAINTENANCE MANUAL OF PORTABLE HOT AIR BLOWER	Vender to confirm			
6.1	2 sets of Operation and maintenance manual in english language shall be supplied. Operation & Maintenance manual should contain following aspects along with other features	Vender to confirm			
7.0	PRE-ACCEPTANCE OF PORATABLE HOT AIR BLOWER AT VENDOR'S WORKS:				
7.1	Pre-acceptance of the poratable hot air blower will be done by BHEL engineer at vendor's works. Clause 7.2 will be verified by BHEL Engineer at vendor's works.	Vendor to confirm			
7.2	Trial run and verification of all technical features of portable hot air blower as laid down in this technical Specification	Vendor to confirm			
8.0	SPARES:				
8.1	Itemized breakup of Mechanical, Electrical and Electronic spares used on the machine . This is required to be used as a reference for future procurement only and shall not be used for arriving at the L1 offer.	Vendor to specify & confirm			
9.0	PAINTING:				
9.1	Vendor shall indicate the colour of the portable Hot Air Blower, in the offer	Vendor to specify			

9.2	Vendor shall repair the paint with original paint in case the same is damaged in transit and before commissioning the portable Hot Air Blower at BHEL BHOPAL works.	Vendor to note & Confirm			
10.0	COMMISSIONING OF THE PORTABLE HOT AIR BLOWER AT BHEL BHOPAL WORKS:				
10.1	Vendor shall take full responsibility for carrying out the commissioning OF portable Hot Air Blower at BHEL BHOPAL works.	Vendor to note & Confirm			
11.0	FINAL ACCEPTANCE OF THE PORTABLE HOT AIR BLOWER:	Vendor to submit the details			
11.1	Demonstration of all features specified in this Technical Specification to the satisfaction of BHEL, at BHEL BHOPAL works.	Vendor to note & Confirm			
12.0	GUARANTEE/Warranty:				
12.1	Guarantee/Warranty for complete portable Hot Air Blower for 12 months from the date of final acceptance at BHEL BHOPAL works. Date of acceptance is same as date of commissioning.	Vendor to note & Confirm			
12.2	Any spares required during guarantee period shall have to be arranged by the vendor free of cost (up to BHEL BHOPAL stores) and duty levied have to be borne by the vendor.	Vendor to note & Confirm			
13.0	NOISE LEVEL:				
13.1	Maximum noise level of the portable hot air blower must be below 85 dB(A), two meter away from the blower .	Vendor to note & Confirm			
14.0	PACKING				
14.1	Rigid wooden packing box shall be provided for all the items of portable Hot Air Blower to avoid any damage / loss in transit. All small and loose item like spares, etc.should also be suitable packed in separates wooden boxes.	Vendor to note & Confirm			
15.0	ACCEPTANCE				

15.1	Demonstration of all features specified in this Technical Specification to the satisfaction of BHEL, at BHEL BHOPAL works.	Vendor Confirm			
16.0	SCOPE:				
16.1	The scope of supply includes 02 nos of design,manufacturing,supply,erection,commissioning and job proving of Portable HOT AIR Blower as per Technical Specification at BHEL BHOPAL works	Vendor to note & Confirm			
17.0	GENERAL INFORMATION:				
17.1	All the information and drawing attached with the tender document are exclusive property of BHEL BHOPAL. Under any circumstance, these information as stated above,must not be passed on to any third party without prior permission of BHEL and must not be used directly or indirectly detrimental to the interest of BHEL.	Vendor to note & Confirm			
18.0	QUALIFYING CONDITION:				
18.1	Offer of only those vendors will be considered who will submit documents of supply of item (supplied directly or by OEM whose authorizatoin is submitted) at least one Portable Hot Air Blower of , enquired size or more in last 10 years and it is working satisfactorily for at least one year after supply the machine. Supporting documents like copy of purchase order / original performance certificate from the customer, is to be submitted along with the former	Vendor to submit the details			
18.2	Name of the company / customer, where portable hot air blower of enquired size or more(s) is (are) supplied	Vendor to submit the details			
18.3	Complete postal address of the company / customer	Vendor to submit the details			
18.4	Year of supply	Vendor to submit the details			
18.5	Application for which the machine is supplied	Vendor to submit the details			
18.6	Name and designation of the contact person of the company / customer	Vendor to submit the details			

हेमंत कुमार / HEMANT KUMAR
 The detail Manager
 11/11/2023

18.7	Performance Certificate from user where Portable Hot Air Blower supplied by OEM or Any Authorized dealer of OEM.	Vendor to submit the details			
18.8	Vendor must be OEM or Authorized Dealer of OEM	Vendor to submit the details			
18.9	Average annual Turn over of the Vendor/OEM for the last 3 financial years should be at least Rs. 1.5 lakhs. For this , vendor to submit , Profit & loss statement for last 3 financial year	Vendor to submit the details			
18.10	BHEL has right to confirm the performance from the user , where such machine is supplied by either by OEM or its authroized dealer. In case of negative feedback , BHEL has right to Reject the technical bid of Vendor	Vendor to submit the details			