

TECHNICAL SPECIFICATION FOR "THREE PHASE INDUSTRIAL VACUUM CLEANER"
TECHNICAL SPECIFICATION NO. EMT-6739, Rev-03 (QTY- 1 No.)

SL NO.	DESCRIPTION OF BHEL REQUIREMENT	REQUIREMENT	OFFERED	DEVIATION
1.0	PURPOSE :			
	"Three Phase Industrial Vacuum Cleaner" will be used for the extraction of copper dust/chips collected on special purpose CNC vertical rotor coil milling during the milling of cooling slots of the rotor coils.	Vendor to note.		
2.0	SCOPE :			
	The scope of supply includes design, manufacturing, supply, commissioning & proving of performance of the "Three Phase Industrial Vacuum Cleaner" at BHEL works, Haridwar.	Vendor to confirm.		
3.0	JOB DESCRIPTION :			
3.1	During the milling of the oblong slots on solid copper strips and square slots on hollow copper strips of the rotor coils, on special purpose CNC vertical rotor coil milling machine, a lot of copper dust/chips are generated. This Three Phase Industrial Vacuum Cleaner would be employed to maintain the high degree of cleanliness by removing the copper dust/chips.	Vendor to note.		
4.0	TECHNICAL SPECIFICATION OF THREE PHASE INDUSTRIAL VACUUM CLEANER:			
4.1	Three Phase Industrial Vacuum Cleaner must be designed to collect abrasive dust generated due to milling of slots of the rotor coils.	Vendor to confirm.		
4.2	Air flow 97 liters/ sec or better.	Vendor to confirm.		
4.3	Vacuum 290 mbar or better.	Vendor to confirm.		
4.4	Diameter of the hose pipe.	Vendor shall furnish in the offer.		
4.5	Length of the hose pipe along with coupling connected to vacuum cleaner 3 meters (minimum).	Vendor to confirm		
4.6	Dust container storage capacity 25 liters minimum.	Vendor to confirm.		
4.7	Type of motor and specification details to be furnished in the offer.	Vendor shall furnish in the offer.		
4.8	Three Phase Industrial Vacuum Cleaner must be complete with good quality and long lasting castor wheels, so that it can easily be shifted to different locations at a work centre.	Vendor to confirm.		
4.9	Weight of vacuum cleaner	Vendor shall furnish in the offer.		
4.10	Technical leaflets/catalogues and specification details of the offered Three Phase Industrial vacuum Cleaner shall be attached with the offer.	Vendor to confirm.		
4.11	Power cord length 15 meters.	Vendor to confirm		
5.0	SOURCE OF ELECTRIC SUPPLY:			

	BHEL will provide input power supply 3- ϕ , 3-wire, 415 \pm 10% V, 50 \pm 3% Hz to the installation at single point. There will be no neutral wire and earthing will be provided through shop structure column. Cable connections from isolator switch (BHEL scope) to Three Phase Industrial Vacuum Cleaner approx.15 meters will be in the vendor's scope of supply.	Vendor to confirm.
6.0	ENVIRONMENTAL CONDITION :	
6.1	Three Phase Industrial Vacuum Cleaner must be suitable to operate at ambient temperature from 4 ^o C to 50 ^o C and relative humidity up to 95%.	Vendor to confirm.
7.0	NOISE LEVEL :	
7.1	Maximum noise level generated due to the operation of Three Phase Industrial Vacuum Cleaner must be less than 85 db from 1 meter away from machine with correction factor for background noise.	Vendor to confirm.
8.0	ACCESSORIES OF THREE PHASE INDUSTRIAL VACUUM CLEANER	
8.1	PVC Flat Nozzle = 1 No.	Vendor to confirm.
8.2	Hose of suitable dia. of length 6 meters = 1 No.	Vendor to confirm.
9.0	SPARE :	
9.1	Mandatory Spares : (i) Dust Bag = 1 No. (ii) Gaskets and 'O' Rings (if any) = 1 Set	Vendor to confirm.
9.2	Price of each item under mandatory spares shall be quoted separately. The price shall not be included in the main equipment cost.	
10.0	OPERATION AND MAINTENANCE MANUAL OF THREE PHASE INDUSTRIAL VACUUM CLEANER :	
10.1	3 sets of operation and maintenance manual in English language shall be supplied along with Three Phase Industrial Vacuum Cleaner.	Vendor to confirm.
11.0	INSTALLATION AND COMMISSIONING :	
11.1	The supplier shall be fully responsible for the commissioning of the Three Phase Industrial Vacuum Cleaner at BHEL works, Haridwar.	Vendor to confirm.
12.0	FINAL ACCEPTANCE OF THREE PHASE INDUSTRIAL VACUUM CLEANER :	
12.1	Demonstration of all features specified in this Technical Specification to the satisfaction of BHEL, at BHEL works; Haridwar.	Vendor to confirm.
13.0	GUARANTEE:	
13.1	Guarantee for Three Phase Industrial Vacuum Cleaner shall be 24 months from the date of final acceptance at BHEL works as per Sl.No.12.1.	Vendor to confirm.

Mohina
(MOHINA TANDON)
ENGINEER (EMT)

Raj Kumar
(RAJ KUMAR)
SR.ENGINEER (ACM, BL-IV)

Mudassar
(MUDASSAR HASAN)
ENGINEER (WEX, BL-IV)

BGM (EMT)

Munish Singh

BHEL**TECHNICAL PURCHASE SPECIFICATION****EMT-6739****Rev-03**

PRE-QUALIFYING REQUIREMENT (POR) R¹ DESCRIPTION OF BHEL REQUIREMENT	TO BE SUPPLIED/ CONFIRMED/ SUBMITTED BY	OFFERED
<p>Only those vendors should quote who have supplied Three Phase Industrial Vacuum Cleaner of at least 310 mbar vacuum capacity in last ten years (prior to the date of opening of Tender).</p> <p>The following information should be submitted by the vendor about the companies where aforementioned Three Phase Industrial Vacuum Cleaner has been supplied. This is required from all the vendors for qualification of their offer.</p>	Vendor to accept & confirm.	
1. Name of the customer / company where referred Three Phase Industrial Vacuum Cleaner have been supplied.	Vendor to inform.	
2. Complete postal address of the customer.	Vendor to inform.	
3. Month & Year of supply.	Vendor to inform.	
4. Parameters and application for which Three Phase Industrial Vacuum Cleaner is supplied.	Vendor to inform.	
5. Name and designation of the contact person of the customer.	Vendor to inform.	
6. Phone, FAX no. and email address of the contact person of the customer.	Vendor to inform.	
7. Copy of purchase order and supporting documents or MOM of commissioning of Three Phase Industrial Vacuum Cleaner from customer is required.	Vendor to submit.	
8. BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	Vendor to accept & confirm.	

[Signature]
(EMT)

DGM (EMT)

[Signature]
3/17/15

[Signature]
(ACM)

[Signature]
(WEX)
(P2, WEX-41-100)