

SPECIFICATION FOR ELECTRODE BAKING OVEN

NOTE:-

1. The vendor (OEM) must fill the "offered" column in compliance to specified requirements and also "Deviations".
(OEM- Original Equipment Manufacturer)
2. The offer and all the documents enclosed with the offer should be in English language only.

SL. NO.	DESCRIPTION OF BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATION	REMARKS
1.0	PURPOSE				
	Electrode drying oven will be used for baking/ removal of moisture from electrode coating before welding.	Vendor to offer			
2.0	MAIN SPECIFICATION				
	It should have following features:				
2.1	Type- Single chamber type rectangular horizontal Electric Oven	Vendor to offer			
2.2	Loading Details				
2.2.1	Capacity of Electrode heating oven	25 kg for 450 mm electrode length			
2.2.2	Working space	Vendor to inform			
2.2.3	Type of loading	Front Loading			
2.2.4	No of Trays	3 nos or more			
2.2.5	Trays should be removable type with proper support on either sides of oven chamber. Provision of hook should be there for loading & unloading of trays.	Vendor to offer			
2.3	Working Temperature	50-350 deg. C or more			
2.4	Construction-	Vendor to confirm			
2.4.1	Material of Inner Wall	Carbon Steel Grade			
2.4.2	Material of Outer Wall	Carbon Steel Grade			
2.4.3	Walls made from carbon steel material should be suitably painted.	Vendor to offer			
2.4.4	Insulation- It should be properly insulated with mineral wool/ ceramic fiber material	Vendor to offer			
2.5	Air Circulation	Natural convection type , Vendor to confirm			
2.5.1	There should be provision of proper inlet & exhaust ventilation	Vendor to offer			
2.6	Temperature Controller:	Vendor to offer			
2.6.1	It should be Thermostat with electronic controller	Vendor to confirm			
2.6.2	It should be fitted with timer, able to switch ON/OFF the oven at preset time.	Vendor to confirm			
2.6.3	Protection against all type of electrical failures e.g. short circuit, motor overload, phase failure etc. should be provided	Vendor to confirm			
2.7	Electrical Heater Detail:				

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2.7.1	Heating element should be made from best quality nickle/ chromium 80/20 compisition resistance wire	Vendor to confirm		
2.7.2	Rating	Vendor to mention		
2.7.3	Power supply connection to oven	Vendor to provide		
2.8	Accessories- 1. Power supply cable of 10 meter length 2. Switches 3. Circuit Breaker	Vendor to offer		
3.0	SPARES (Optional)			
3.1	Heaters, Qty- 2 nos of each type	Vendor to offer		
4.0	DOCUMENTATION			
	a. Three sets of operation and maintenance manual documents are to be supplied along with the supply. Detailed electrical circuit should also be supplied along with the oven. b. Supplier will provide complete list of spares along with individual's part identification number.	Vendor to confirm		
5.0	GUARANTEE			
	a. Vendor shall provide full and complete guarantee for one year trouble free performance from date of successful commissioning/ final acceptance.	Vendor to confirm		
6.0	WORKING CONDITIONS AT BHEL HARDWAR			
6.1	Input Power Supply: Single phase, 230± 10% Volt , 50 ± 3% Hz. Input power supply will be provided by BHEL.	Vendor to note		
6.2	Ambient Temperature: 5-45 deg. C	Vendor to note		
6.3	Relative Humidity: 95%	Vendor to note		
7.0	PACKING			
	Electrode Heating Oven shall be dispatched in suitable packing to avoid any damage during handling, transit and storage.	Vendor to confirm		
8.0	FINAL ACCEPTANCE			
	Final acceptance shall be after commissioning (demonstration of all features for specified propose) of the Electrode Heating Oven at BHEL by the vendor to the full satisfaction of BHEL as per specification.	Vendor to confirm		
9.0	REMARKS			
9.1	Offer should be complete in all respect.	Vendor to confirm		
9.2	Technical literature and catalogues of the offered Electrode heating oven should be sent along with the offer/quotation.	Vendor to submit		
9.3	Supplier should confirm and clarify each clause/point as given above at the first instance.,	Vendor to note		

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ELECTRODE BAKING OVEN


QUALIFYING CRITERIA


The BIDDER has to compulsorily meet the Qualifying criteria indicated in as follows to get qualified. Otherwise the technical offer will not be considered.

S. No.	REQUIREMENTS	Vendor's Response
1	<p>Only those vendors (OEMs), who have manufactured, supplied and commissioned at least one Electrode Baking Oven with capacity 25 kg or more in the past ten years are only eligible to quote.</p> <p>Such supplied machine should at present be working satisfactorily for at least one year after its commissioning (counted backward from the date of opening of this Tender).</p> <p>The Vendor should get and submit along with the offer one performance certificate from a customer on the customer's letter head to whom such machine is supplied and which is meeting the above criteria.</p> <p>Those O.E.M manufacturers who do not fulfill the above requirements are requested not to respond to this Tender.</p>	
	The vendor should submit following information where such machine has been supplied for qualification of their offer.	
1.1	Name and postal address of the customer or company where such machine is installed.	
1.2	Name and designation of the contact person where such machine is installed. .	
1.3	Phone No, FAX No and email address of the contact person where such machine is installed.	
1.4	Month and Year of commissioning of such machine.	
1.5	Application for which the machine is supplied	
1.6	BHEL reserves the right to verify the above information provided by vendor. In case the information provided is found to be false/ incorrect, the offer shall be rejected.	


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