

Indent NO: - 20152942

SPECIFICATION FOR ELECTRODE BAKING OVEN

NOTE:-

1. The vendor must fill the "offered" column in compliance to specified requirements and also "Deviations".
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 minearal wool/ ceramic fiber material <i>such that person can work comfortably</i>	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	Digital Temperature Controller:	Vendor to offer			
2.6.1	It should be fitted with digital temperature indicator	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:				
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			

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2.8	Accessories- 1. Power supply cable of 10 meter length 2. Switches 3. Circuit Breaker	Vendor to offer			
3.0	SPARES & CONSUMABLES				
3.1	Digital Indicating Temperature Controller - 1 no.	Vendor to offer			
3.2	Thermocouple Unit For Controller with Lead Wire - 1 no.	Vendor to offer			
3.3	Electronic Timer - 1 no.	Vendor to offer			
3.4	Complete heating elements assembly - 1 no.	Vendor to offer			
3.5	Set of Switches - 1 no. each type	Vendor to offer			
3.6	Set of Indicating lamp with holder - 1 no. of each type	Vendor to offer			
3.7	Set of Push buttons - 1 no. of each type	Vendor to offer			
		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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PRE-QUALIFYING REQUIREMENT (PQR)		
Sl. No.	Requirement	Vendor's Response
1	<p>Only those vendors (Original Equipment Manufactures - OEMs / Authorized suppliers of OEMs) who have supplied at least one Electrode Baking/ Drying Oven with capacity 25 Kg or more in the past ten years (on the date of opening of tender) are only eligible to quote.</p> <p>Such machine should be working satisfactorily for at least one year after its installation.</p> <p>The vendor should submit along with the offer, one performance certificate from a customer on customer's letter head bearing name & designation of issuer of certificate to whom such machine is supplied and which is meeting the above criteria.</p>	
	The vendor should submit following information regarding company where referred oven has been installed.	
1.1	Name & Address of the customer / company.	
1.2	Date of installation of oven.	
1.3	Authorized Supplier should submit copy of authorization certificate from OEMs for supply of Electrode Baking/ Drying Oven and confirmation to take guarantee obligation as per specification.	
1.4	BHEL reserves the right to verify the information provided by vendor. In case the information is found to be false /incorrect, the offer shall be rejected.	

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