

Rotary Hearth Furnace - Zonal - Electric Oil Pre Heater Specifications

PR No: 0133704240, date: 05.04.2023

Sl. No.	Description	BHEL's Requirement	Bidder's Response	Remarks
Electric Oil Pre Heater Technical Details:				
1.1	Input Pipe Size	1 inch		
1.2	Output Pipe Size	1 inch		
1.3	Heating Fluid	Very Low Sulphur Furnace Oil (VLSFO)		
1.4	Heating Method	Electric		
1.5	Heater type	Inline Vertical Electric Oil Preheater		
1.6	Fluid Kinematic Viscosity (cst)	160 @ 50°C		
1.7	Max. Operating Temperature	Max. 200°C		
1.8	Max. Operating Pressure	6 bar		
1.9	Material Heating Elements	nickel-chromium alloy, iron-chromium-aluminum alloy, molybdenum disilicide, and silicon carbide or		
1.10	Heater Dimensions (WxHxD)	Bidder to specify		

Rotary Hearth Furnace - Zonal - Electric Oil Pre Heater Control Panel Specifications:

2.1	Type of Power Control Panel	PID Controller + Mechanical Power Contactors		
2.2	Rated Power	To suit Heating Capacity Bidder to specify		
2.3	Type of Protection	Fuses or Circuit Breaker		
2.4	Protection Rating	Bidder to specify		
2.5	Type of Sensor on PID Controller	PT100 Sensor		
2.6	Electronic Safety Switch	1 Safety Switch		
2.7	Type of sensor on the Safety Switch	PT100 Sensor		

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Sl. No.	Description	BHEL's Requirement	Bidder's Response	Remarks
2.8	Factory Setup	Required		
2.9	Indication lamp	Power ON, Heater ON		
2.10	Illumination Push Button	Green ON / OFF Switch		
2.11	Emergency Push Button	Mushroom Head Emergency Button		
2.12	Reset Push Button	Black Colour		
2.13	Main Load Break Switch	Main load break switch with external handle		
2.14	Incoming Supply	3 Phase, 415V, 50Hz		
2.15	Control Panel Dimensions (WxHxD)	Bidder to specify		
2.16	PID controller make & Model	Masibus or equivalent		

Qualifying Conditions and Documents need to be submitted:

3.1	Only those Bidders who have supplied similar Electric Oil Preheaters that is working satisfactorily for at least two year after commissioning should quote.	Bidder to confirm. Attach relevant copies		
3.2	Electric Oil Pre Heater Data Sheets	Bidder to attach along with the offer		
3.3	GA drawing of Heaters and Control Panel documents	Bidder to attach along with the offer		
3.4	Operation and maintenance manuals.	To be provided during supply		
3.5	Configuration of the PID regulator and related documents	To be provided during supply		
3.6	Commissioning of the oil preheater with panel is in Supplier's Scope	Bidder to confirm.		