

KCCP LIMITED

(A Govt. of Kerala Undertaking)

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Ref: KCCP/TENDER/ 1795 /2024-25

Date: 14.11.2024

NOTICE INVITING E-TENDER

Tender ID: 2024_KCCPL_706272_1

Competitive e-tenders are invited through e-procurement from manufacturer/suppliers for supply of IBR Boiler (1 No.)- 1 TPH, 10.5 kg/cm² pressure, horizontal, multi-tubular multi-pass wet back wood fired boiler for Integrated Coconut Processing unit at Kannapuram, Kannur District.

Cost of Tender form	:	Rs.16,420/- (Including GST)
EMD	:	Rs.60,000/-
Pre-bid meeting	:	06.12.2024 at 12.00 PM
Tender closing date	:	11.12.2024 at 11.00 AM
Technical bid opening date	:	13.12.2024 at 11.00 AM

For details please visit www.etenders.kerala.gov.in

Sd/
MANAGING DIRECTOR

Specifications of Wood fired IBR boiler

Specifications of Wood fired IBR boiler	
Design, Fabrication, Inspection and testing	As per Indian Boiler regulation 1950 with latest amendments
Type of Boiler	Horizontal Multi-tubular Multi-pass (3-pass), Wet back
Steam generation	1000 kg/hr
Working pressure	10.5 kg/cm ²
Thermal efficiency based on GCV of fuel	72 ± 2 % (minimum expected)
Dryness fraction of steam	0.98
Steam quality	Dry, Saturated
Fuel	Wood/Biomass Briquettes

	Caloric value of fuel	2988 kcal/kg for firewood and 4000 kcal/kg for biomass briquettes
	Fuel consumption	150-175 kg/hr
	No of passes	3-Pass – Wet back
	Shell thickness	10 mm (min)
	Tube plate thickness	16mm (min)
	Design Code	IBR
	Type of feeding	Manual
	Make of material for shell plates, furnace, end plates, tubes, etc.	As per IBR standards and as per norms specified by Dept. of Factories & Boilers
Scope of supply for boiler	Boiler- 1 no	Horizontal multi-tubular multi-pass (3-pass) wet back wood fired boiler with necessary mountings, fittings and saddle to mount the boiler
		Platform handrail & ladder
		Fire bar assembly
	Accessories	Vertical Multistage Feed water Pump Coupled with motor mounted on Base Frame, Globe Valve and Disc Check Valve with Feed Pipe, Water Level Indicator with Drying Cock and Gauge Glass Tube, Blow down Valve with Pipes, Spring Loader Safety Valve single Post, Pressure Gauge with siphon, Main Steam Stop Valve, Fusible Plug, Air Vent Valve, Ladder and Platform, Refractory Lining, Automatic Water level controller, Prewired Electrical Control Panel with all safeties, cables from control panel to all boiler electrical terminals and any other required accessory as per standards.
	MS Tank – 1 no	Feed water storage tank 4mm thick with structural support (10 ft height) with necessary inlets and outlets, water level gauge and drain valve. Capacity: 2000 L
	Water scrubber – 1 set	For chimney
	MS chimney – 1 set	Bottom conical portion: bottom diameter 1200 mm and top height 600mm; 10meter long; 8mm thickness MS plate Intermediate straight portion: 600mm diameter; 10 meter long fabricated with 6mm MS plate Top straight portion: 600mm diameter; 10 meter long fabricated with 5mm MS plate and MS flanges 25mm base plate flange and 16mm secondary flange with 10mm stiffener plate; Chimney mountings: MS Monkey ladder, Lightning arrestor
ID Fan	With Duct work and structural fabrication	

	Bellows – 2 nos	For ID Fan
	PRS – 1 set	40NB PRS (Pressure Reducing station) with all standard accessories on IBR standards with structural support and ladder Pressure Range: 10.5kg/cm ² to 3.5 kg/cm ²
	Water softener – 1 set	With dozing pump and tank
	Economizer	For enhancing the efficiency
	Civil work	Foundation for Boiler & Chimney
	Packing & Forwarding, Transportation & Material handling system	Supplier's scope
Feed water specifications	Total Hardness	< 5 ppm
	pH value	8.5 to 9.5
	Oil/Organic matter	Not Detectable (preferred)
	Dissolved Oxygen	< 0.3 ppm (preferred)
	TDS	< 200 ppm (preferred)
	Free CO ₂	Nil
Water in Boiler specifications	Total Hardness	< 50 ppm (maximum)
	pH value	10.5 to 12
	TDS	< 3500 ppm (preferred)
	Free CO ₂	Nil
Additional requirements	The supplier should specify the warranty period and support services that will be provided	
	Boiler must comply with industrial standards, certifications and regulations as per Dept. of Factories & Boilers and State Pollution Control Board	
	<u>Attachment Required:</u> Catalogue or diagram of the boiler and mention the parts.	