

BE/OFR/FWB-10/2021-22/173/25.12.2021



M/S. WAKESHWAR PRODUCER COMPANY Ltd,
Wakad (Post), Kannad (Taluka),
Aurangabad - District, Maharashtra - 431 147.

Kind Attn : Mr.KARBHARI RAMDAS MANGATE - DIRECTOR

E Mail : karbharimangate91@gmail.com & Contact-09309136468 & 08408987198

Dear Sirs,

Sub: Offer for Supply of 1000 Kgs/Hr having 10.54Kg working Pressure - IBR Boiler Three Pass Fully Wetback (FWB-10) with Latest amendments-Reg

We express our sincere thanks for showing interest in our range of products and request you to give us an opportunity to be of service to you. Based on our discussions, we are glad to submit our proposal for our standard scope of supply of 1.0TPH (F&A 100°C), 10.54Kgs/cm², for the following Annexure wide.

- **ANNEXURE - 1: TECHNICAL SPECIFICATIONS** for Three pass fully wetback Horizontal Multitubular Wood Fired Bright Boiler model BE/FWB/10/150: of capacity 1000 Kgs /Hr (F&A @ 100 deg.C) having working Pressure of 10.54Kg/Cm² (150 PSI) using fuel as Solid Agro waste/Fire Wood.
- **ANNEXURE - 2: SCOPE OF SUPPLY**
- **ANNEXURE - 3: EXCLUSIONS**
- **ANNEXURE - 4: PERFORMANCE CRITERIA**
- **ANNEXURE- 5: PRICE DETAILS FOR OUR STANDARD SCOPE OF SUPPLY**
- **ANNEXURE - 6: COMMERCIALTERMS AND CONDITIONS.**

We hope the above will be in line with your complete requirement and hope that we will be favored with your valuable order. In case of any clarification please feel free to contact us.

Thanking you and assuring you best of our services and attention at all times.

Yours faithfully
For Bright Engineering

S.RAJASEKARAN / HEAD – MARKETING & PROJECTS,
9994330400 & 9994330600

(Encl : Scope Annexure)

Bright Engineering

Head Office & Factory: SF No. 526/3, Near Zion Matriculation School, Nataraj Colony, Malumichampatti,
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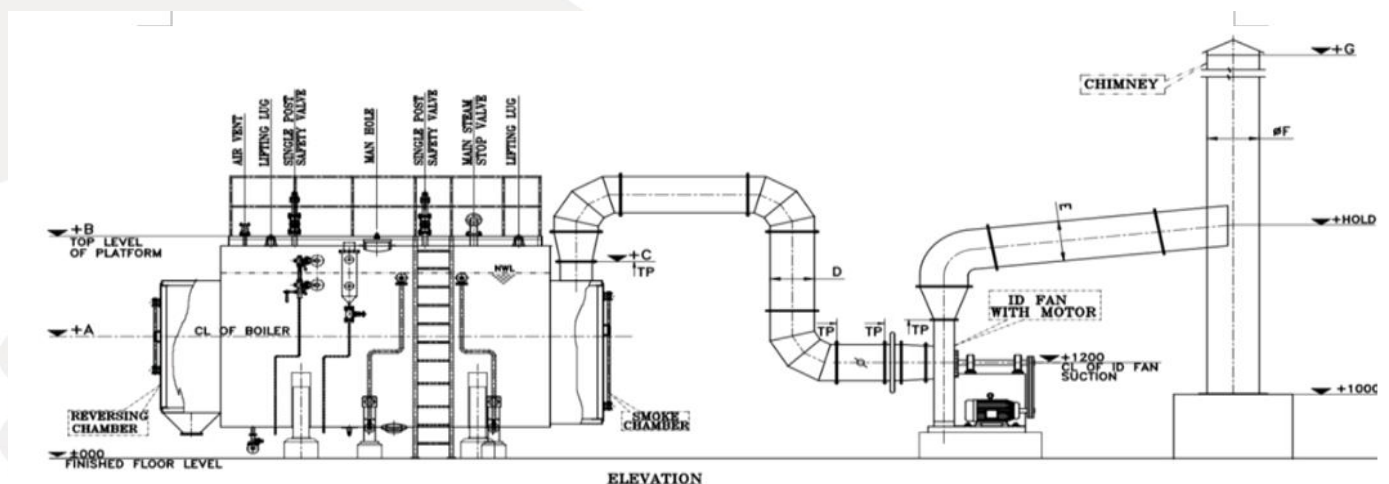
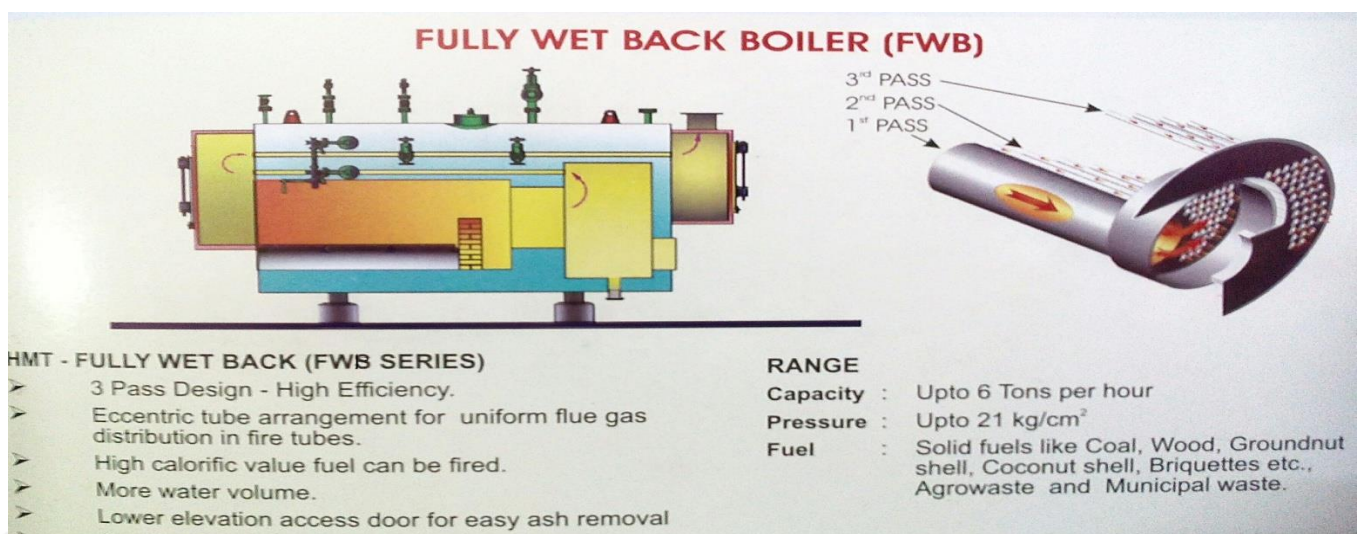
SALIENT FEATURES OF THE BOILER OFFERED- FWB

Bright Boilers

Some of the salient features of the Boiler is highlighted as under. It may be noted that the Boiler is designed based on the availability of fuel and to suit your requirement. Intech as it's name implies is a 3 Pass Internal Furnace Packaged Boiler. It is a conventional 3 pass smoke-tube design, designed for the combustion of coal and wood in an internal furnace and is therefore sometimes known as coal/wood fired Steam Boiler.

DESCRIPTION OF THE BOILER

The Boiler proposed is a Horizontal Multitubular 3 pass Fully Wet Back Smoke tube Boiler. First pass being the Furnace and Second & Third pass in the shell. For effective combustion of fuels the grate area is optimally sized. Firing points are provided for feeding fuel on to the grate area and through by manually, and is most suitable for Solid Fuel like Wood / Coal / Briquettes. The boiler furnace is fully submerged in the water, this helps in transferring the maximum heat from the furnace to the surrounding water. The grate bars on which the fuel is burnt are placed in the furnace to ensure desired grate area for burning fuel. At the end of the furnace is having Internal reversing chamber (IRC), these improves thermal efficiency of boiler. Flue gases leaving the Shell furnace, transfer the heat by convection to the tubes through IRC in the shell passes entering the Induced Draught fan and to the Chimney. The ID fan provided in the Flue gas stream, produces necessary draught for maintaining the furnace at a slightly negative pressure.





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COMBUSTION AIR SYSTEM

The Boiler is designed to work on a Induced draught mode. The Induced draught (ID) fan fitted between the Boiler and Chimney, induces a negative draught in the furnace. The ID fan are adjusted such that the furnace gets adequate supply of air for combustion and at required head. The Dampers fitted on the fans can be used to regulate the draught conditions.

BOILER FEED WATER SYSTEM

The feed water will be pumped into the shell by means of 2 Nos feed water pumps (1 - standby and 1 - operational). Water in the feed water tank is circulated naturally through the Heat recovery unit (If water pre heater is provided as Heat recovery unit) to increase the temperature of feed water in the tank. Also the condensate coming out of the process, can be fed back to the Feed water tank to increase the temperature of feed water, if the client wishes to do so, thereby reducing the fuel consumption. The Feed water from the feed water tank is pumped into the Boiler shell by means of Feed water pumps. The entry of water into the shell is through a specially designed distributor which keeps the thermal shocks in the Boiler to the minimum.

VALVES AND INSTRUMENTATION

The Boiler is provided with necessary valves and instrumentation. This includes the fittings and mountings required by IBR for the pressure parts, as well as those required for the safe and convenient operation of the system.

INSTRUMENTS, CONTROLS AND SAFETIES

Automatic Water Level Controller for For pump "OFF" on high water level For Pump "ON" on low water level and To trip the ID fan and also alarming on very low level

- A.** Steam pressure switch for Combustion control (To trip the ID fan on high steam pressure)
- B.** Main steam pressure gauge
- C.** Single post Safety Valve
- D.** Fusible plug

CONTROL PANEL

The control panel will be self standing one and dust proof. This includes necessary alarms, annunciators, hooter and indication lamps.

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ANNEXURE -1: TECHNICAL SPECIFICATIONS



Bright Boilers

<u>Sr No</u>	<u>DESCRIPTION</u>	<u>SPECIFICATIONS</u>
1.	Design, Fabrication, Inspection & Testing Code of Construction	As per Indian Boiler Regulation 1950 with latest Amendments
2.	Type of Boiler	Horizontal Multi tubular Three pass Fully Wet back fire tube boiler (HMT)
3.	Model	BE - FWB - 10 - 150
4.	Evaporation Capacity	1000 Kg/Hr (F & A 100°C)
5.	Design Working Pressure	10.54 Kg/cm ² (g) / (150 PSI)
6.	Hydraulic Test Pressure	15.81 Kg/cm ² (g) / (225 PSI)
7.	Heat transfer Area	<u>37.17 M² (400Sq Feet)</u>
8.	Fuel	Solid Agro Waste / Fire Wood
9.	Calorific Value of the fuel	3300 Kcal/Kg
10.	Thermal Efficiency-As per ASME PT4	75% ± 2%
11.	Mode of Draft	Induced Draught
12.	Type of Fuel feeding	Manually over Feeding
13.	Crate Area	0.90 M ²
14.	Steam Space Area	0.83 Cu.Mtr
15.	Water Holding Full Volume	4.65 Cu.Mtr
16.	Water Holding Normal Level	5.48 Cu.Mtr
17.	Site Condition	Ambinent temp : 35° C (for design) Relative humidity : 60% (for design) Wind load : As per IS 875 Seismic coefficient: As per IS 1893
18.	Electric Power For Motors	Voltage : 415 ± 10% V Frequency : 50 ± 5% Hz Phase : 3 Phase, 4 Wire system
19.	Electric Power For Instruments	Voltage : 230 V Frequency : 50 Hz Phase : Single phase

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BOILER MATERIAL SPECIFICATIONS:

<u>DESCRIPTIONS</u> (SAIL-PLATE & TIC/TATA TUBES)	<u>DIMENSIONS</u>
SHELL - Size in mm Grade : SA 515/516 Gr.70	Dia 1700 x Long 3000 x Thickness 12mm
FURNACE – Size in mm Grade : SA 515/516 Gr.70	Dia 750 x Long 2100 x Thickness 12mm
RC WRAPPER – Size in mm Grade : SA 515/516 Gr.70	Dia 1062 x Long 570 x Thickness 16mm
SHELL END PLATES - Size in mm Grade : SA 515/516 Gr.70	Dia 1700 x Thickness 16mm x 2 Nos
RC END PLATES –Size in mm Grade : SA 515/516 Gr.70	Dia 1062 x Thickness 16mm x 2 Nos
CUT FURNACE – Size in mm Grade : SA 515/516 Gr.70	Dia 350 x Long 200 x Thickness 16mm
ACCESS PLATES –Size in mm Grade : SA 515/516 Gr.70	Dia 300 x Long 150 x Thickness 16mm
TUBES –Size in mm - 2nd Pass = (Grade : BS 059 PT-1)- 3rd Pass =	Dia 63.5 x Thickness 3.66mm x Long 2250 x 33 Numbers Dia 63.5 x Thickness 3.66mm x Long 3000 x 26 Numbers

<u>ID FAN</u>
Make : VINTEC (With Motor)
Type : Belt Drive
Motor : 5 HP.
Rpm : 1100
Temp : 200Deg.C

<u>FEED PUMPS</u>
Make : CRI / CNP (With Motor)
Type : Vertical Multistage centrifugal S.S Pumps
Flow : 1.45 M ³ /Hr
Motor : 2 HP
QTY : 2 Nos

(Total Electrical load: 9 HP - Including standby Feed Pump 2 HP)

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ANNEXURE-2: SCOPE OF SUPPLY

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PRESSURE PARTS

SL.No	DESCRIPTION	BRIGHT
A	Horizontal multi-tubular Three Pass Fully Wet Back (FWB-MODEL) fire tube shell with valves & fittings – 1 Set	✓
B	Feed delivery line (IBR) from outlet of feed pump to boiler – 2 nos.	✓
C	Blow Down Line from Boiler upto to Blow Down Valve(IBR) - 1 No.	✓

NON PRESSURE PARTS

SL.No	DESCRIPTION	QTY	BRIGHT
A	Furnace front Door	1-SETS	✓
B	C.I Fire Bars with its supports.	1-SETS	✓
C	Platform and Ladder and Handrails Assembly	1-SETS	✓
D	Front & Rear chamber inside constructed with fire brick lining.	1-SETS	✓
E	Front & Rear chamber doors inside filled with refractories	1-SETS	✓

LIST OF SUB DELIVERY ITEMS

SL.No	DESCRIPTION	MAKE	QTY	BRIGHT
A	Main Steam stop valve	(ATAM/UTAM)	1-No	✓
B	Air vent valve	(ATAM/UTAM)	1-No	✓
C	Single Post Safety Valve	DARLING MUESCO	2-Nos	✓
D	Water Level Gauge	(ATAM/TRAX)	2-Sets	✓
E	Blow Down Valve	(ATAM/UTAM)	1-No	✓
F	Globe valve for feed Line	(ATAM/UTAM)	2-Nos	✓
G	Globe valve for AWLC	(ATAM/UTAM)	2-Nos	✓
H	Drain valve for AWLC	(ATAM/TRAX)	1-No	✓
I	Disk Check valve - SS	(ATAM/TRAX)	2-Nos	✓
J	NRV – Br	(ATAM/UTAM)	2-Nos	✓
K	Fusible Plug - Br	(ATAM/UTAM)	2-Nos	✓
L	Pressure Gauge with Syphon	(WARI-H.GURU)	1-No	✓
M	Globe valve for Pressure gauge	(ATAM/UTAM)	1-No	✓
N	Pressure Switch	(INDFOS-DANFOS)	1-No	✓
O	Auto Water Level Controller(AWLC)	(SEHGAL n SEHGAL/MALHOTHRA)	1-Sets	✓
P	INDUCED DRAFT (ID) Fan with Motor	(VINTEC)	1-Sets	✓
Q	Feed Pumps	(CRI/CNP)	2-Nos	✓

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ACCESSORIES

SL.No	DESCRIPTION	QTY	BRIGHT
A	Feed water pumps	2-Nos	✓
B	ID Fan with Motor Assembly	1-Sets	✓
C	Auto water level controller (AWLC)	1-Set	✓
D	Control panel (With L & T Contactors – Dust Proof)	1-Sets	✓

INSTRUMENTS, CONTROLS AND SAFETIES:-

SL.No	DESCRIPTION	QTY	BRIGHT	CLIENT
A	Automatic Water Level Controller for For pump "OFF" on high water level For Pump "ON" on low water level To trip the ID fan on very low level & alarm	1 Assy	✓	
B	Steam pressure switch for Combustion control (To trip the ID fan On high steam pressure)	1 No	✓	
C	Main steam pressure gauge	1 No	✓	
D	Single post Safety Valve	2 No's	✓	
E	Fusible plug	2 Nos	✓	

ELECTRICAL

SL.No	DESCRIPTION	QTY	BRIGHT	CLIENT
A.	Supply of Powder coated, dust proof Fully prewired control panel housing electric isolator consisting necessary switches, MCB's contactors, fuses, indicator , timers etc.,	1 Assy	✓	

TERMINAL POINTS

1	STEAM	Outlet of Main steam stop valve
2	WATER	From Delivery Flange of Pump to Boiler
3	DRAINS & VENTS	Up to outlet of respective valves
4	FLUE GAS	Up to Flue Gas Outlet Flange of Boiler

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ANNEXURE - 3 :EXCLUSIONS *Bright Boilers*

- 1) All civil foundations works & All electrical works within boiler house including supply of power Cables, control cables, earthing materials and laying and Boiler house roofing and Unloading & Leading for Boiler materials and power and water at free of cost & Lighting facilities at erection site and Security for supplied materials.
- 2) Pipe line - Air vent, Boiler blow downs, Drain lines for Gauge glass & AWLC, Safety valves exhaust & its supporting Structures
- 3) Piping – Steam pipe line from boiler MSSV to Process and Condensate return Pipe line
- 4) Erection of Boiler & its accessories and our Fabricated Chimney all boiler related works of our Erection Team and our Commissioning engineer staying (Boarding & Lodging) and also Crane arrangement will be arranging by customer only.
- 5) Water treatment Plant for Boiler Feed Water
- 6) Feed water tank with structurals & inter Connecting water piping Up to feed pumps suction flange.
- 7) **UTILITIES** : Initial fill of lubricants & grease, Charcoal & kerosene for startup and Chemicals and temporary piping for alkali boilout and Firefighting system.
- 8) Supply of Flue Gas Ducts from boiler outlet to Chimney with its supports
- 9) Insulation Materials with labor for insulating of pressure part-100 mm Thick mineral wool and Non Pressure part – 50mm Thick with 24 SWG aluminium cladding with labour
- 10)Supply of Air Pre Heater & FD Fan with Air ducts assembly and Mechanical Dust Collector Assembly. And its flue gas ducts with supports.
- 11)Erection Team & Commissioning Supervision Charges & To & Fro Air and Free Boarding & Lodging and Local Conveyance and Other Incidental Charges, If any to be Borne by you.
- 12)IBR formalities of boiler and steam piping at site (Scrutiny & Inspection charges for boiler registration to be paid by customer and also customer will be arranging Water & Electricity)
- 13)Tax & Transportation, Transit Insurance and Spares for Operation & Maintenance.
- 14)Any other items which are not mentioned specifically in Supplier's scope.

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ANNEXURE - 4 : PERFORMANCE CRITERIA



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Fuel: The output and other performance parameters of the boiler specified in this offer hold good only if fuel of the following specification is charged to the boiler. Any variation in the specifications of fuel will alter the performance parameters.

Gross Calorific Value: 3300 Kcal/Kg

Water: The performance parameters of the boiler under this offer are based on filtered and treated water of the following quality being available.

<u>RECOMMENDED FEED WATER QUALITY:</u>	
Total Hardness as CaCO ₃ ppm	< 5 [Commercial Zero]
PH Value	8.5 – 9.5
Oil / Organic Matter	Not Detectable
Oxygen	0.05 mg / Liters
<u>RECOMMENDED BOILER WATER QUALITY:</u>	
Total Hardness as CaCO ₃ ppm	Not Detectable
Sodium Phosphate Na ₃ PO ₄ mg/l	50 – 100
Caustic Alkalinity as CaCO ₃ mg/l	Min : 350
Silica as SiO ₂	<0.4 % of Caustic Alkalinity
Total Alkalinity as CaCO ₃ mg/l	Min : 1200
Sodium Sulphide as Na ₂ SO ₃ mg/l or Hydrazine (N ₂ H ₄) mg/l	30 – 70 0.1 – 1
Total Dissolved Solids mg/l	Max : 3500
Suspended Solids mg/l	Max : 50

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ANNEXURE - 5 :PRICE DETAILS



Bright Boilers

SL No	DESCRIPTION	<u>BASIC PRICE</u>
<u>1.1</u>	Cost of Our Standard scope of supply for Horizontal Multitubular 3Pass Fully Wet Back (FWB-10) fire tube Boiler Capacity of 1000 Kgs/Hr having working pressure of 10.54Kg/sq.cm. Boiler with its mountings and fittings, as per our Boiler <u>Standard scope of supply</u> in offer reference the above Annexures (Page Numbers from 4 to 7) will be...	Rs.16,38,000 /=- (Rupees Sixteen Lakhs and Thirty Eight Thousand only)
<u>2.1</u>	Cost of supply for Guy Rope supported straight type M.S Fabricated Chimney having Dia 450mm & 60 Feet height & Base Plate & "U" Clamps & Turn Buckley & Foundation Bolt and coated of heat resistance aluminium painting with necessary Bolts & Nuts complete Will be... (Excluding Earthing , Erection)	Rs.3,24,000 /=- (Rupees Three lakhs and Twenty Four Thousand only)
<u>2.2</u>	Cost of supply for MS Fabricated boiler feeding Hot water tank holding capacity of 4000 Litres having (1) Shell 5mm Thickness & End Plate 6mm Thick (2) Water Level Gauge – 1 Set (3) Drain Valve & Vent Valve – 1 set. (Mounting on the civil Pedestal)	Rs.2,28,000 /=- (Rupees Two lakhs and Twenty Eight Thousand only)
<u>2.3</u>	Cost of supply for Boiler Feed Water Line from Tank to Boiler, Having Strainer & Ball Valves (As per our Standard Layout)	Rs.78,000/- Rupees Seventy Eight thousand only)
<u>2.4</u>	Cost of supply for Flue gas M.S ducting from BOILER to ID Fan & ID Fan to Chimney (As per Our standard Layout)	Rs.1,44,000 /=- Rupees One lakhs and Forty Four Thousand only
<u>2.5</u>	Cost of Erection charges for boiler and its mounting & Fittings and Chimney (Crane arrangement will be paying by customer)	Rs.1,44,000 /=- Rupees One lakhs and Forty Four Thousand only
<u>2.6</u>	Cost of supply for All drains & discharge lines of Boiler blow down ,Gauge cock drain , AWLC drain & Air vent , Safety valves discharge lines (As per our layout)	Rs.48,000/- Rupees Forty Eight thousand Only
<u>2.7</u>	Cost of supply for Insulation Works with Materials 1 Insulation of boiler upto inlet of Boiler MSSV (IBR Pressure Part) having 100 mm thick mineral wool @120 Kg/m ³ and 24 SWG aluminum cladding & 2 Steam Pipe lines from Boiler to Steam Header to One Dryer having 50 mm thick mineral wool and 24 SWG aluminum cladding (Maximum 50 Feet Distance from Boiler	Rs.99,000/- Rupees Ninety Nine thousand only & Rs.90,000/- Rupees Ninety thousand only
<u>2.8</u>	Cost of IBR formalities for boiler at site (Scrutiny & Inspection charges for boiler registration Treasury Fee to be paid by customer)	Rs.1,50,000 /=- Rupees One Lakhs and Fifty Thousand Only
<u>2.9</u>	Cost of supply for IBR Steam Pipe line works within Battery Limits with materials & Fabrications & Installations works from Boiler to One Dryer Unit with IBR Blue print drawing and approval will be...(Maximum 50 Feet Distance from Boiler)	Rs.3,48,000 /=- (Rupees Three lakhs and Forty Eight Thousand Only)

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ANNEXURE - 6 : COMMERCIAL TERMS & CONDITIONS

1.	Basic Price	Ex-Works, @ in Coimbatore, Tamilnadu , India
2.	Tax Extra	18% GST Extra from the Above Basic Price (Ref - Annexure – 5)
3.	Delivery	Delivery of Boiler will be within 60 to 75 Days from the date of receipt of your technically and commercially clear purchase order and advance at our end.
4.	Payment Terms	40% advance along with Order and balance along with 100% Taxes and Duties against submission of proforma invoice, prior to despatch.
5.	Validity	Our offer is valid for 10 days from the date of this offer.
6.	Exclusions (Please Refer in our Offer Page Number 8 (Annexure -3))	Water Treatment Plant & Pipeline from Site sump to Boiler Feed Hot Water Tank & All Civil & Electrical & Insurance & Roofing & Security

7. Warranty : The boiler is warranted against malfunction arising out of faulty design, material and / or workmanship for a period of 12 months from the date of commissioning or for a period of 15 months from the date of despatch whichever is earlier. This clause will be applicable if and only if seller's recommendations on feed water, fuel parameters, electrical input etc., are strictly adhered-to by the buyer and boiler is operated as per instructions given in the o & m manual supplied.

Bought out components are guaranteed by seller only to the extent of the guarantees given to seller by their vendor. Electrical components such as heaters, motors, contactors etc. rubber components and instruments such as pressure gauges, thermometers, combstats, bearings etc. And normal wear & tear of components are however not covered under this warranty.

Any parts/components that are required to be replaced during the warranty period shall be supplied free of cost within the guaranteed period. However, the excise duty and transport payable for such components shall be reimbursed by the purchaser.

HANDING OVER OF THE BOILER: Handing over of the equipment's and / or installation-cum-commissioning would be considered as completion of the contract and a formal completion certificate shall be issued by the buyer if :

- A. The materials have been supplied as per terms of scope of supply or with agreed deviations if any in writing accepted by the buyer.
- B. The equipment has been commissioned as applicable generally and as agreed or the equipment and / or installation has been put into operations. The operation shall mean the usage of equipment for the purpose for which it is intended.

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C. Seller stands no guarantee if the boiler is put to commercial use without the authorisation of the seller. The buyer is expected to put the equipment to commercial use only after issuing formal completion certificate and making all payments as per contract to the seller. The ownership of the equipment or parts supplied will be deemed to have been transferred to the buyer only after realization of payment by seller as per the contract.

BOILER REGISTRATION: Guidance for boiler registration formalities shall be provided by the seller and all expenses towards registration cost including statutory fees shall be paid by the buyer.

CANCELLATION: Orders received and acknowledged shall not be cancelled without the written consent of the seller. The advance paid along with the order shall be fully forfeited in the event of cancellation of order. If manufacturing activities has commenced, buyer shall compensate seller for the work already Carried out on buyer's behalf, in addition to forfeiture of advance.

DELAY IN PAYMENT: The seller shall manufacture and supply as per the schedule mutually agreed in parts against payment as per contract. In case of delay in payment for materials which are ready as per schedule, the buyer shall pay extra amount @ 15% towards interest and storage charges.

JURISDICTION: All contracts between buyer and seller are deemed to be entered into at Coimbatore and are therefore subject to the jurisdiction of the courts of Coimbatore, Tamilnadu, India.

FORCE MAJEURE: This order is subject to force majeure conditions which are beyond seller's reasonable control such as riots, fire, earthquakes, flood, accidents, break-down of machinery, war, government orders or restrictions, strikes, lock-outs, delay due to unavailability of labor, raw materials, wagons, shipping space etc.

EXCESS MATERIALS: The excess materials sent to site along with fabricated items for contingency and safe transportation purpose are property of seller which would be utilized if necessary for site work and all excess materials shall be taken back by the seller.

GENERAL: The terms and conditions specified in manufacturer offer shall be deemed to have been accepted by the purchaser unless agreed otherwise as specified in the purchase order.

**Yours faithfully
For Bright Engineering,**

S.RAJASEKARAN / HEAD – MARKETING & PROJECTS,

09994330600 & 09994330400

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