

NITIN CORPORATION

402, 4th Floor,
Bezzola Commercial Complex,
Sion – Trombay Road,
Chembur,
Mumbai – 400071,
India.

WEB : www.corponit.com

E – MAIL : enquiry@corponit.com
nitincorporation@yahoo.com

Contact No. : +91 - 9920404345

THE FOLLOWING STEAM BOILER IS AVAILABLE FOR SALE WITH US WITH IMMEDIATE DELIVERY:

1 No. – 34 TPH IJT (1991) make Coal Fired ABFC type Steam Boiler, having a working pressure of 65 kg/cm² as per the following technical specifications:

TECHNICAL DETAILS & SPECIFICATION SHEETS FOR BOILER AND ITS AUXILIARIES

A. Specification of Boiler :

- | | | | |
|-----|--------------------------|---|--|
| 1. | Make | : | M/s. ISGEC JOHN THOMPSON |
| 2. | Type | : | Bi- Drum, Natural circulation, Atmospheric Fluidised Bed Combustion Boiler. |
| 3. | Capacity | : | 34000 Kg/Hr at MCR (100 %) |
| 4. | Heating Surface | : | 1197 m ² |
| 5. | Working Pressure | : | 65 Kg/cm ² g at Superheater Outlet. |
| 6. | Design Pressure | : | 79 ATA |
| 7. | Design Steam Temperature | : | 495 +/- 5 °C at Superheater Outlet. |
| 8. | Feed Water Temperature | : | 105 °C. |
| 9. | Year of Installation | : | 1990-91. |
| 10. | Safety Valve Settings | : | Drum SV-1 : 78.5 Kg/cm ² g,
Drum SV-2 : 79.5 Kg/cm ² g
SH SV : 69.5 Kg/cm ² g |

B. Specification for Pressure Parts :-

- B1. Specification for Steam Drum, Water drum, Bank Tubes.
- B2. Specification for Bed Tube Header, Front / Side Wall Header.
- B3. Specification for Economiser Inlet & Outlet Header, PSH Outlet Header.
- B4. Specification for SSH Inlet & Outlet Header.
- B5. Specification for Front/RHS-LHS/Bed Wall Tubes.
- B6. Specification for Economiser Tubes, Primary/Secondary SH Tubes.

B1. Specification for Steam Drum, Water drum, Bank Tubes.

Sr. No.	Parameters	Name of Pressure Parts		
		Steam Drum	Water Drum	Bank Tubes
1	MOC	SA299	SA299	BS/3059, Pt-II/1990,ST-440 CDS
2	Design Pressure(Kg/cm ² g)	79	79	79
3	Design Temperature – °C	294 (MWT) 322 Max. MT	294 (MWT) 322 Max. MT	294 (MWT) 322 Max. MT
4	Size/Dimension	1372 ID x 104 Thk.	990 ID x 76 Thk.	51 OD & 76.2 OD
5	Thickness (mm)	Shell-104 mm, Dish End-76 mm	Shell-76 mm, Dish End-63 mm	4.06 & 4.88
6	Quantity	1 No.	1 No.	51 – 18 Row x 40 76.2- 1 Row x 27
7	Heating Surface (m ²)	23	23	407.55
8	Place of Manufacturer	Yamunanagar, HR	Yamunanagar, HR	Yamunanagar, HR

B2. Specification for Bed Tube Header, Front / Side Wall Header.

Sr. No.	Parameters	Name of Pressure Parts		
		Bed Tube Header	FW Header	Side Wall Header
1	MOC	SA 106, Gr-B	SA 106, Gr-B	SA 106, Gr-B
2	Design Pressure(Kg/cm ² g)	79	79	79
3	Design Temperature – °C	294 (MWT) 322 Max. MT	294 (MWT) 322 Max. MT	294 (MWT) 322 Max. MT
4	Size/Dimension	250 NB x Sch-140 I/L – 5040,O/L-4550	273 OD x 21.4	Top - 273 OD LT-7550,LB-4840
5	Thickness (mm)	SCh-140	TT-21.4,TB- 30	TT – 21.4, TB-30
6	Quantity	1 No.	6 Nos.	1 no. each for In/Out Header

B3. Specification for Economiser Inlet & Outlet Header, PSH Outlet Header.

Sr. No.	Parameters	Name of Pressure Parts		
		Economiser I/L Headers	Economiser O/L Headers	PSH O/L Header
1	MOC	SA 106, Gr-B	SA 106, Gr-B	SA 106, Gr-B
2	Design Pressure(Kg/cm ² g)	90	90	79
3	Design Temperature – °C	190 (MWT) 190 Max. MT	190 (MWT) 190 Max. MT	426 (MWT) 465 Max. MT
4	Size/Dimension	219 OD x 15.8	219 OD x 15.8	273 OD x 25.4
5	Thickness (mm)	15.8	15.8	25.4
6	Quantity	1 No. Each	1 No. Each	1 No.

B4. Specification for SSH Inlet & Outlet Header.

Sr. No.	Parameters	Name of Pressure Parts		
		SSH I/L Header	SSH O/L Header	
1	MOC	SA 106, Gr-B	ASTM, A-335P12	
2	Design Pressure(Kg/cm ² g)	79	79	
3	Design Temperature – °C	426 (MWT) 465 (WMT)	500 (MWT) 550 (WMT)	
4	Size/Dimension	273 OD x 6034	273 OD x 7080	
5	Thickness (mm)	25.4	25.4	
6	Quantity	1 No. Each	1 No. Each	

B5. Specification for Front/RHS-LHS/Bed Wall Tubes.

Sr. No.	Parameters	Name of Pressure Parts		
		FW Tubes	Side Wall Tubes	Bed Tubes
1	MOC	BS/3059, PT- II/78, ST-440 CDS	BS/3059, PT-II/78, ST-440 CDS	BS/3059, PT-II/78, ST-440 CDS
2	Design Pressure(Kg/cm ² g)	79	79	79
3	Design Temperature – °C	294 (MWT)	294 (MWT)	294 (MWT)

		322 Max. MT	322 Max. MT	322 Max. MT
4	Size/Dimension	76.2 OD	76.2 OD	60.3 OD
5	Thickness (mm)	4.88	4.88	8
6	Quantity	40 Nos./Per Boiler	47+26 for LHS & RHS per Boiler	54 Nos. per Boiler

B6. Specification for Economiser Tubes, Primary/Secondary SH Tubes.

Sr. No.	Parameters	Name of Pressure Parts		
		Economiser Tubes	PRM. SH Tubes	SEC. SH TUBES
1	MOC	BS/3059, PT- II/78, ST-360/440 CDS	BS/3059, PT- II, ST-620 // BS/3059, PT- II, ST-440	BS/3059, PT- II, ST-620// BS/3059, PT- II, ST-622/490
2	Design Pressure(Kg/cm ² g)	85.50	79	79
3	Design Temperature – °C	145 (MWT) 156 Max. WMT	426 (MWT) 500 Max. WMT	465 (MWT) 550 Max. WMT
4	Size/Dimension	38.1 OD	38.1 OD	38.1 OD
5	Thickness (mm)	3.66	4.47	4.5
6	Quantity	18 x 20 x 3		
7	Heating Surface		505 Sq. Mtr.	

C. Specification for Air Heater :-

Sr.No.	AIR HEATER	Unit	
1	Location/Arrangement		Downstream of Economiser/Horizontal Front to Rear
2	Tube OD x Thickness	mm	63.5 x 2.95
3	Tube Material		Mild Steel BS-1775/1964, ERW-II
4	No. of Air –Passes	No.	4 Stages (1 – PA + 3 – SA)
5	Longitudinal Pitch	mm	79
6	Transverse Pitch	mm	130
7	Nos. of Tubes		42 x 12 in each Stage
8	Medium		Air- Inside Tube, Gas- Outside Tube

D. Specifications for Fans :-

Sr. No.	Parameters	FANS		
		PA Fan	ID Fan	SA Fan
1	Make	M/s. HDC Pvt. Limited		
2	Type	L1/SB-ILD/995	RT3/SB-ILD/1200	P2A/SISW/1050
3	Quantity	2 Nos.	2 Nos.	2 Nos.
4	Medium	Ambient Air	Flue Gas	Ambient Air
5	Flow/ Capacity	4.4 NM ³ /Sec, 5.04 M ³ /Sec (70 % MCR Each)	15.8 M ³ /Sec (70 % MCR Each)	4.1 NM ³ /Sec, 4.7 M ³ /Sec (100 % MCR Each)
6	Pressure - mmwc	1400	- Ve 150	400
7	Temperature – °C	35	150	145
8	Type of Drive	Direct Coupled	Direct Coupled	Direct Coupled
9	Speed (RPM)	2900	980	1460
10	Motor Rating	110 kW/146 HP	45 kW/60 HP	30 kW/40 HP
11	Motor Frame Size	D315S	D280S	D200L
12	Bearing (Fans)	SKF-2215C3	SKF-22318K + H318	SKF-22215K + H315
13	Bearing (Motor)			
14	Coupling	109 Upn GBM Make	110 Z GBM Make	108 Z GBM Make
15	Plummer Block		SN618	SN515
16	Lubrication	SERVO-220	Grease	Grease

F. Specification for Electrostatic Precipitator :-

(a) General Data :-

1. Type of ESP : Horizontal Dry
2. No. of Precipitators per Boiler : One
3. No. of Gas path per Precipitator : One
4. No. of electrical fields in series,
in the direction of gas flow : Three
5. No. of electrical fields per Boiler : Three
6. Space between the centres of collecting : 300

	electrodes across the gas path – mm		
7.	Nominal ht. of collecting electrodes-mm	:	8050
8.	Nominal lengths of collecting electrodes	:	
	per field in the direction of gas flow – mm		
10.	Total No. of high voltage rectifier unit installed	:	Two
11.	Rating of each rectified unit – KV (Peak)	:	75
	- MA (Mean)	:	300

PHOTOS:





