

LEGEND

SL.No.	CONTENT	ABBREVIATIONS & SYMBOL
01.	ACCESS DOOR (450x600) (SIDE WALL ONLY)	AD
02.	ACCESS DOOR (450x450) (OTHER AREA)	AD
03.	BOLTED DOOR (450x450)	BD
04.	TERMINAL POINT (BHEL TRICHY'S SCOPE)	TP
05.	SAFETY VALVE	SV
06.	STARTUP VENT	SUV
07.	SAFETY RELIEF VALVE	SRV
08.	LEFT SIDE	(L)
09.	RIGHT SIDE	(R)
10.	WATER PRE-HEATER	WPH
11.	SUPER HEATER	SH
12.	OBSERVATION DOOR	OBD
13.	DOWN COMER	DC
14.	INSULATION	INS
15.	WATER PRE-HEATER	WPH
16.	OIL BURNER	OBD
17.	GAS BURNER	GB

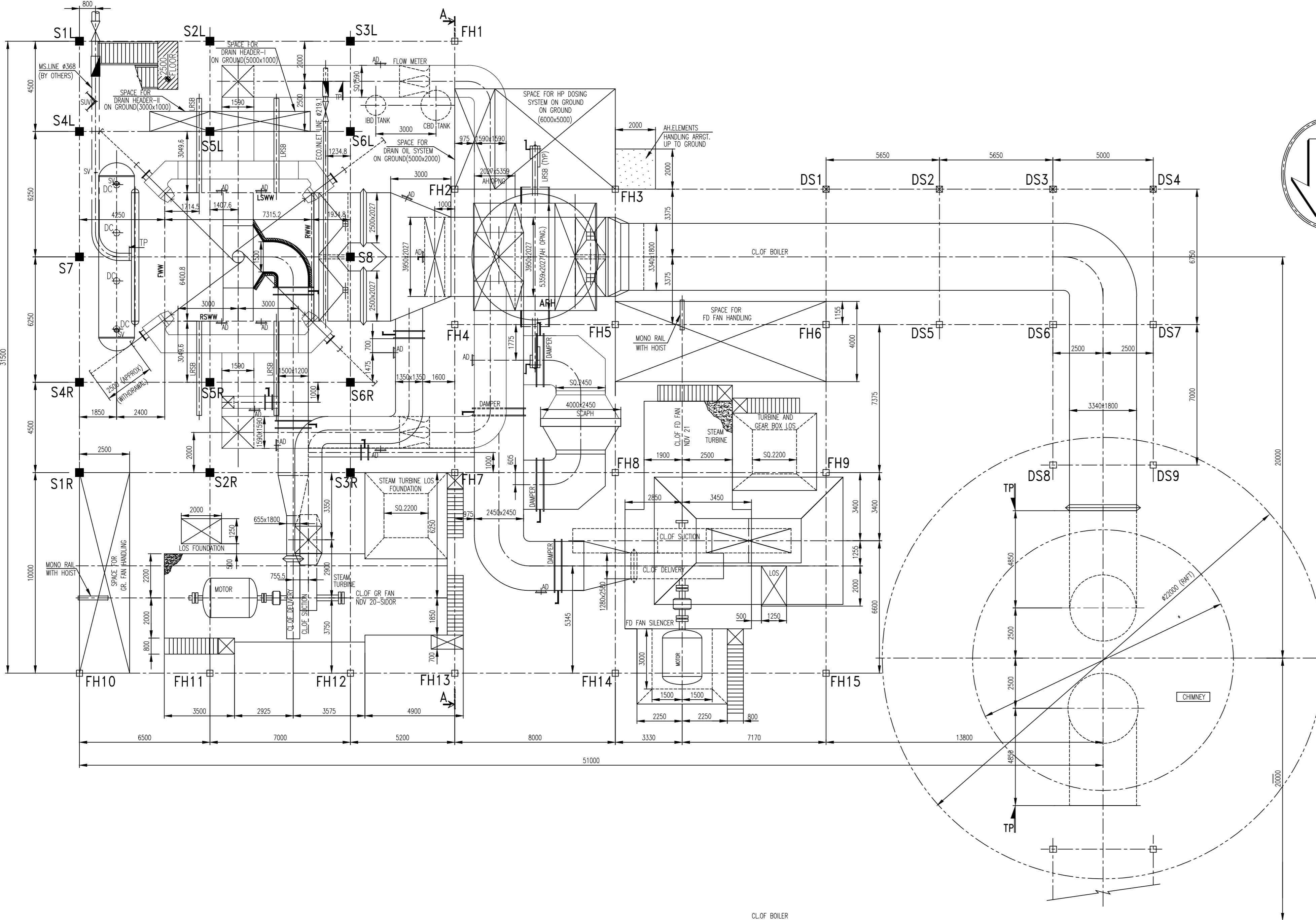
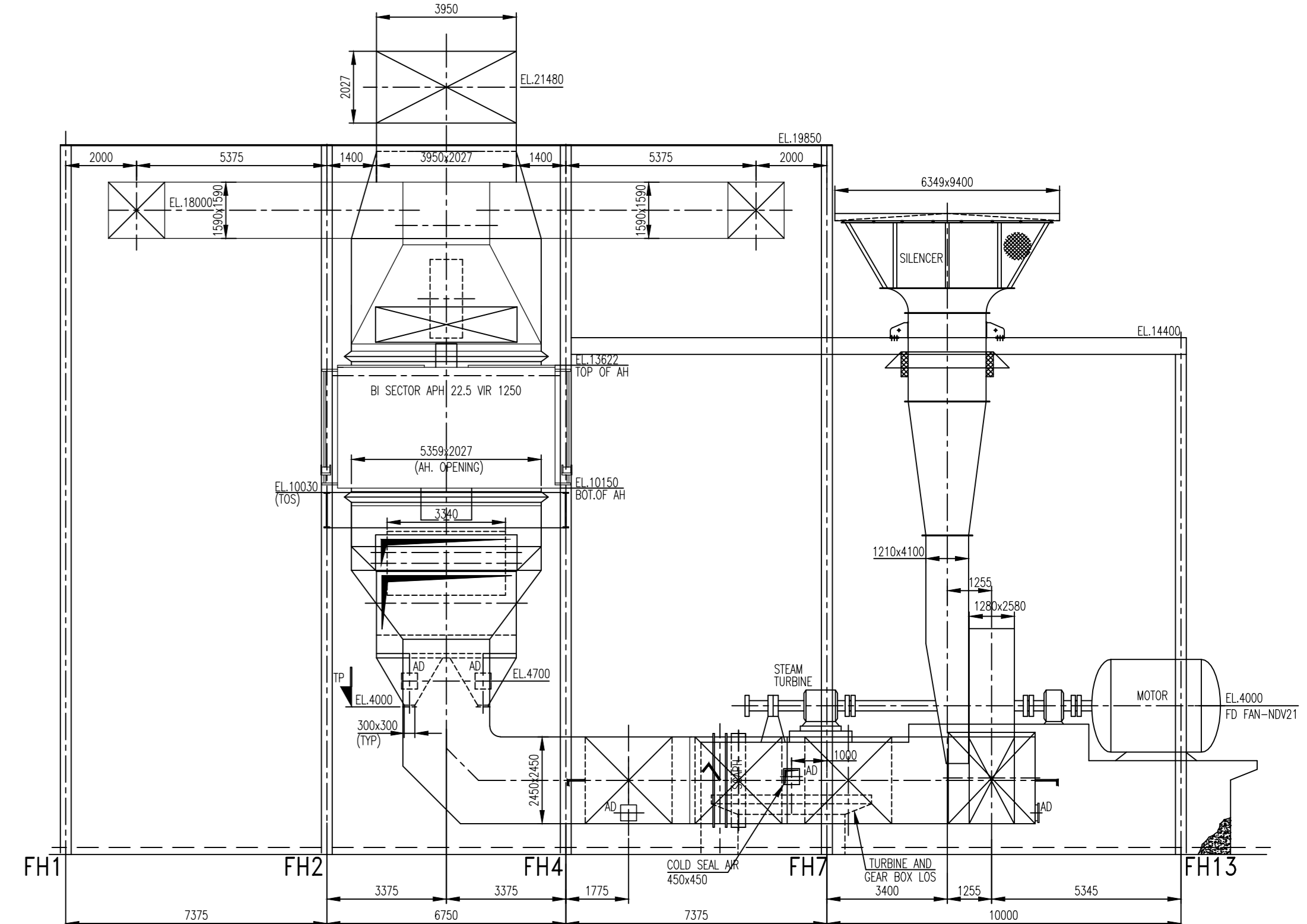
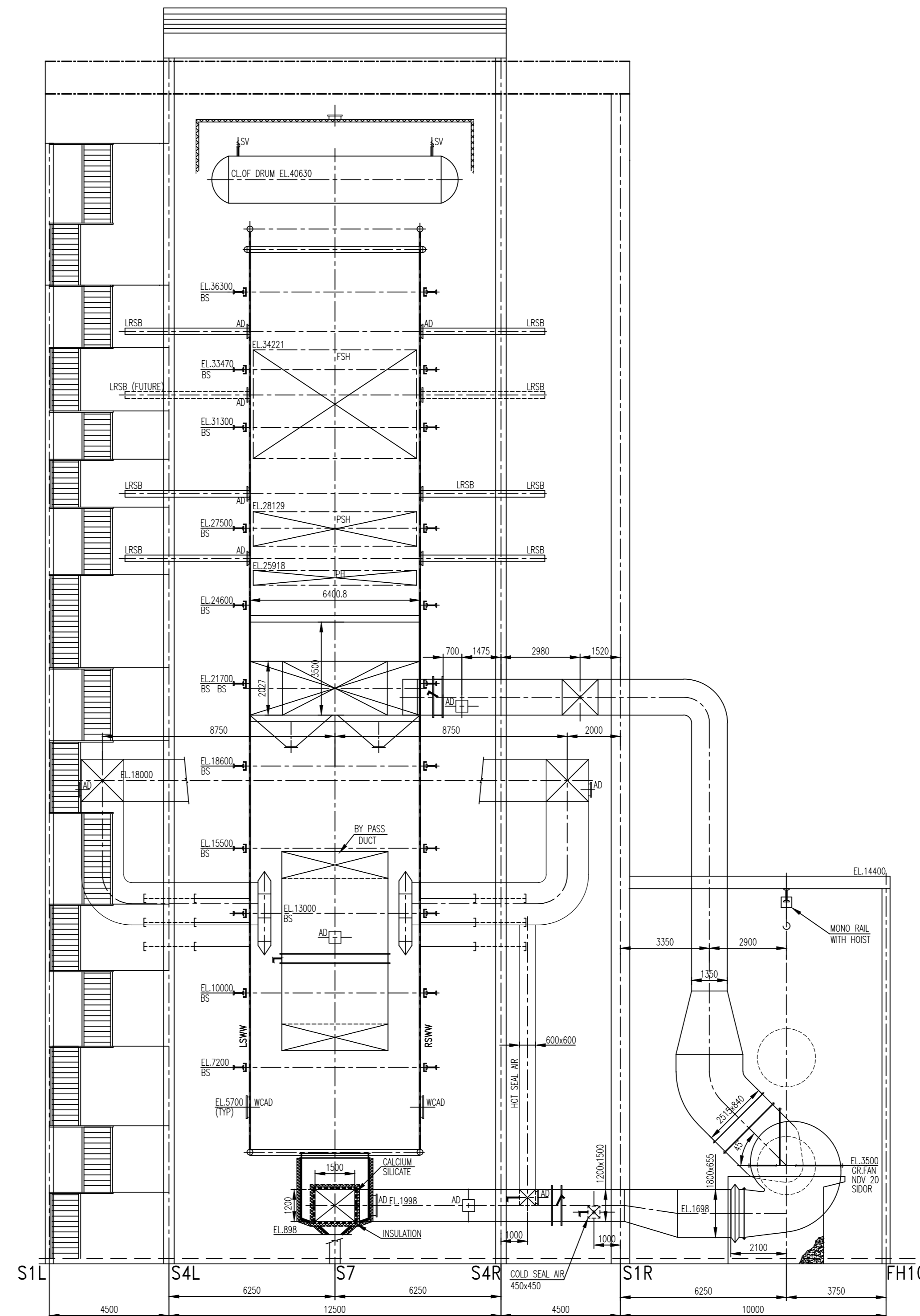
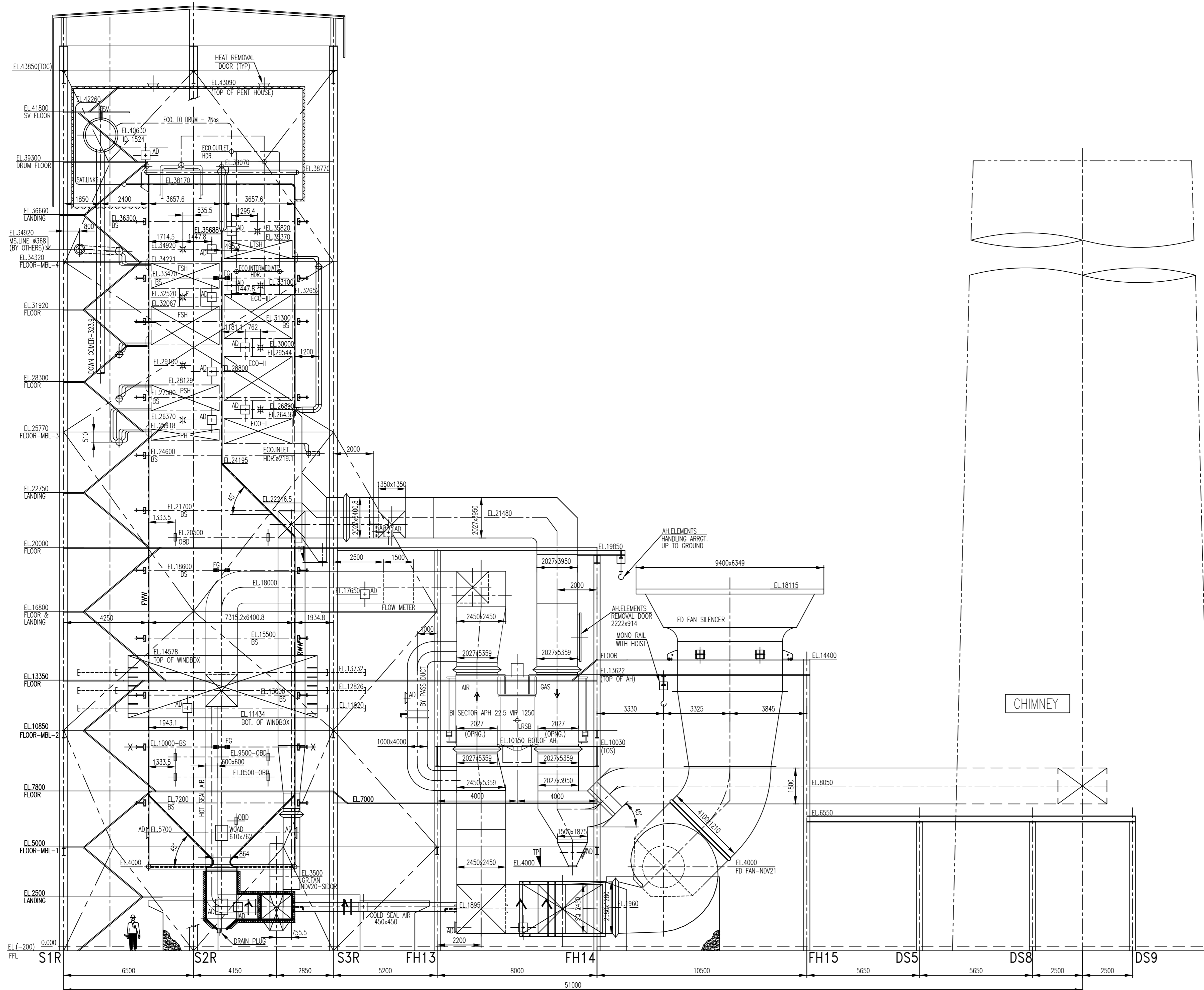
DESCRIPTION OF THE UNIT:
 4x110 TPH, OUT DOOR, SUPPLEMENTARY FIRED, SINGLE PRESSURE, SINGLE WITH NATURAL CIRCULATION, HORIZONTAL TYPE HEAT RECOVERY STEAM GENERATOR BEHIND FRAME 6A GT.

COLUMN SIZE:
 D1 TO D3 - I 400 x 350
 D4 TO D6 & S1 TO S6 } I 750 x 350

NOTES:
 1. ALL DIMENSIONS INDICATED FOR DUCT REPRESENTS INSIDE SIZE ONLY.
 2. ENSURE THAT THE BOTTOM CASING AND TOP DUCT IS PROVIDED WITH A SLOPE OF 1" AS SHOWN IN SECTION.
 3. ADA ARE PROVIDED ON RIGHT SIDE OF WPHS AND OBD'S ARE LOCATED LEFT & RIGHT SIDE THE BURNER DUCT.
 4. (A), (B), (C) & (D) ARE DESIGNATION OF ANCHOR/SLIDING POINTS.
 5. OIL BURNER OBD'S ARE TO BE KEPT IN INCLINED POSITION.
 6. SPACE IDENTIFIED FOR VARIOUS EQUIPMENTS ARE AT GROUND, UNLESS OTHERWISE SPECIFIED.
 7. FIXED COLUMN : S3R

REFERENCE DRAWINGS:
 1. PLOT PLAN DRAWING No. --- 0-381-01-01108

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LEGEND

AD	ACCESS DOOR
BS	BUCKSTAY
ECC	ECONOMISER
FG	FURNACE GUIDE
FWW	FRONT WATER WALL
RWW	REAR WATER WALL
LSWW	LEFT SIDE WATER WALL
RSWW	RIGHT SIDE WATER WALL
SV	SAFETY VALVE
SUV	START-UP VENT
APH	AIRPREHEATER
FD	FORCED DRAFT
TP	TERMINAL POINT
DC	DOWNCOMER
GR	GAS RE-CIRCULATION
LRSS	LONG RETRACTABLE SOOT BLOWER
ODD	OBSERVATION DOOR
WCAD	WATER COOL ACCESS DOOR
PH	PLATEN HANGER
PISH	PLATEN SUPER HEATER
FSH	FINAL SUPER HEATER

BOILER PARAMETERS:-

- STEAM FLOW AT MAIN STEAM STOP VALVE OUTLET ----- 2x220 T/H
- STEAM PRESSURE AT MAIN STEAM STOP VALVE OUTLET ----- 111 Kg/cm² (g)
- STEAM TEMPERATURE AT MAIN STEAM STOP VALVE OUTLET ----- 515±5°C

DESCRIPTION OF THE UNIT:-

2x220 T/H BOX TYPE (PRESSURIZED FURNACE), 100% FUEL GAS FIRING, 100% FUEL OIL (NAPHTHA) FIRING, TILTING TANGENTIAL FIRING UTILITY BOILER.

NOTES

- ALL DUCT DIMENSIONS REPRESENT INSIDE DIMENSIONS ONLY.
- INNER RADIUS OF ALL DUCT BEND IS 300mm, UNLESS SPECIFIED OTHERWISE.
- TP = TERMINAL POINT FOR BHEL/TRICHY SCOPE OF SUPPLY

REFERENCE DRAWINGS

- PILOT PLAN DRG. No: --- 0-381-01-01108

REV	DATE	BY	CHKD	APPD	CUSTOMER	OWNER
01	19.03.11	CHD	P.K.Sahoo	APPD	S.Gnanaraj	ONGC Petro-additions LIMITED, STEAM & POWER GENERATION SYSTEM
02						ENGINEERS INDIA LIMITED
PROJECT: OPAL DAHEJ PETROCHEMICAL COMPLEX SEZ, Daboj, Gujarat, India						
Tender No.-MR/OW/MM/STG-NOM/19/2009 EIL JOB No. 6987 / BPCG - 10 Pkg.						
BHARAT HEAVY ELECTRICALS LTD., BOILER PLANT UNIT, TIRUCHIRAPALLI-620 014.						
DRAWN: RP.Nathan			TITLE: GENERAL ARRANGEMENT OF BOILER			
CHECKED: P.K.Sahoo			DATE: 05.02.2011			
APPROVED: S.Gnanaraj			SCALE: 1:125			
DATE: 05.02.2011			DRG. No. 0-00-511-93529			
ALL DIMENSIONS ARE IN MILLIMETRES			REV. 01			