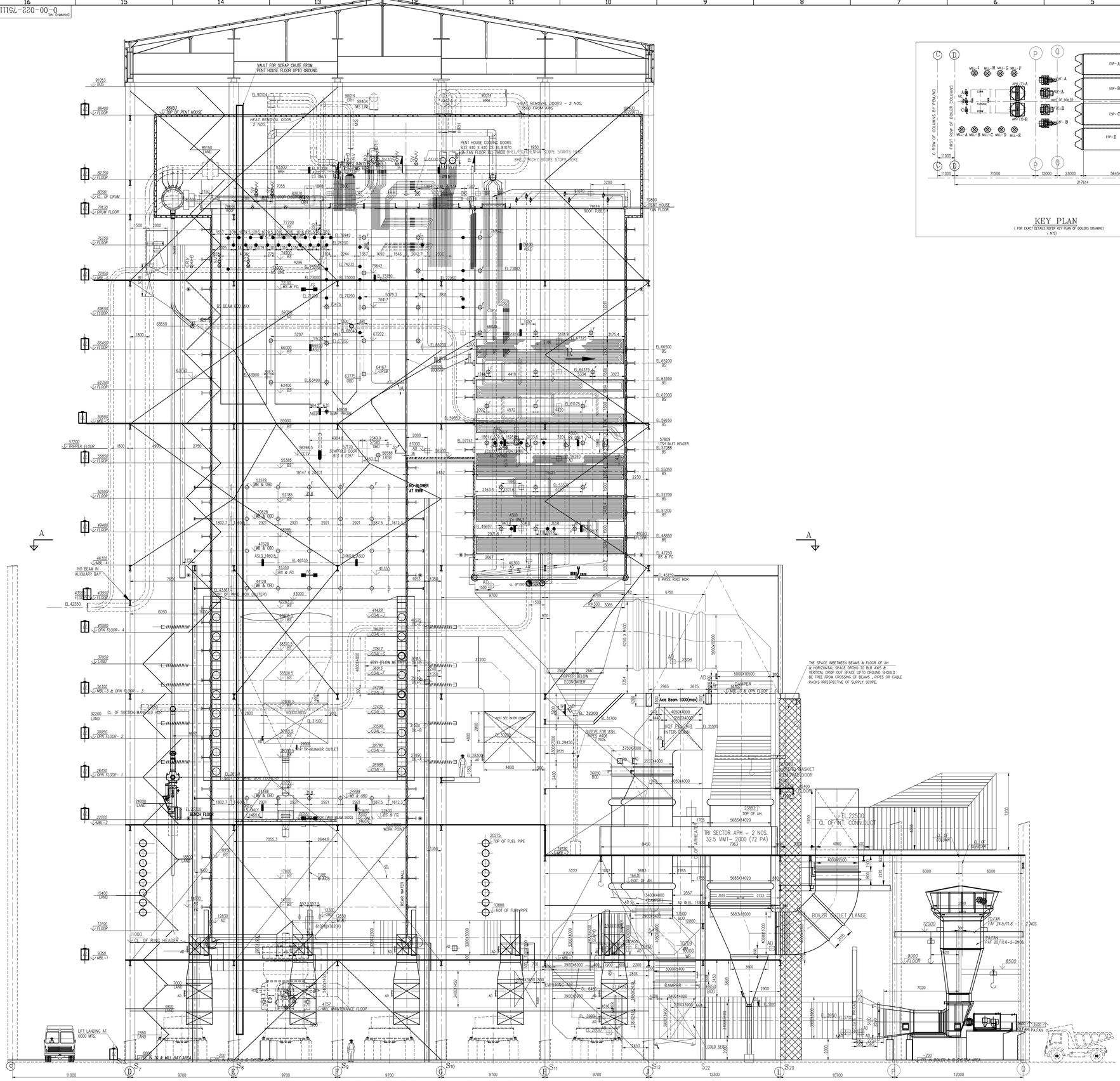
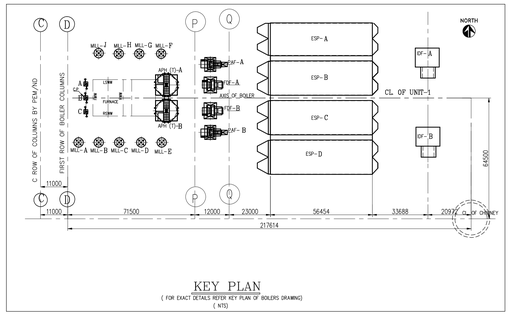
DRAWING NO 0-00-022-75111



GA OF BOILER SECTIONAL SIDE ELEVATION



KEY PLAN

(FOR EXACT DETAILS REFER KEY PLAN OF BOILERS DRAWING)

(NTS)

NOTES: –

1. ALL FURNACE OPENINGS ARE TO BE PROVIDED ON BOTH SIDES, OTHERWISE STATED.
2. ALL DUCT DIMENSIONS ARE INSIDE SIZES ONLY.
3. ALL INNER CORNERS OF DUCT TURNING ARE 300 RADIUS ONLY, UNLESS OTHERWISE SPECIFIED.
4. ALL ELEVATIONS ARE WITH RESPECT TO EL0.00 M WHICH CORRESPONDS TO RL 229.8 M ABOVE MSL.
5. FFL OF BOILER = (–)0.20 M
6. FFL OF MILL BAY = 0.00 M

REFERENCE DRAWING NUMBERS: –

1. GA OF BOILER SEC. PLAN – 0-00-022-75112
2. GA OF BOILER FRONT ELEVATION – 0-00-022-75113
3. KEY PLAN OF BOILERS – 0-00-020-75114
4. LOC. OF FURNACE OPENG. AND BUCKSTAYS – 0-00-020-75115
5. T.P DETAILS OF HRH, CRH & FWL – 0-00-020-75116
6. LAYOUT OF COLD AIR DUCTING (ELEVATION) – 0-00-020-75117
7. LAYOUT OF COLD AIR DUCTING (PLAN) – 0-00-020-75118
8. LAYOUT OF HOT AIR DUCTING (ELEVATION) – 0-00-020-75119
9. LAYOUT OF HOT AIR DUCTING (PLAN) – 0-00-020-75120
10. LAYOUT OF FLUE GAS DUCTING – 0-00-020-75121
11. LAYOUT OF LD SYSTEM – ELEVATION – 0-00-020-75122
12. LAYOUT OF LD SYSTEM – PLAN – 0-00-020-75123
13. FLOOR PLAN DRAWINGS:–
    FLOOR PLAN AT EL.5250 TO EL.59550 – 0-00-021-75125 TO 0-00-021-75139
    FLOOR PLAN AT EL.62750 TO EL.88400 – 1-00-021-71299 TO 1-00-021-71306
14. BOILER EQUIPMENT DESIGNATION – 3-00-020-70146

BOILER PARAMETERS (BMCR)

MAXIMUM CONTINUOUS RATING	– 1950.0 t/h
PRESSURE OF SUPER HEATED STEAM	– 178 kg./SQ.cm(G)
TEMPERATURE OF SUPERHEATED STEAM	– 540°C
STEAM FLOW AT REHEATER OUTLET	– 1665.7 t/h
ENTRY PRESSURE OF REHEATED STEAM	– 45.1 kg./SQ.cm(G).
ENTRY TEMPERATURE OF REHEATED STEAM	– 338.6°C
EXIT PRESSURE OF REHEATED STEAM	– 42.46 kg./SQ.cm(G)
EXIT TEMPERATURE OF REHEATED STEAM	– 540°C
FEED WATER INLET TEMPERATURE	– 254.6°C

DESCRIPTION OF UNIT: –

CONTROLLED CIRCULATION, SINGLE DRUM, RADIANT, DRY BOTTOM, DOUBLE REHEAT, PULVERIZED COAL FIRED SEMI OUTDOOR, UTILITY UNIT, BALANCED DRAUGHT, CUT CORNER, 51 mm O.D.TUBES AT 63.5 mm CENTERS, WRAP AROUND BUCKSTAY SYSTEM. ONE NO. OF EACH 600 MW CAPACITY.

LEGEND : –

ALL THE OPENINGS SHOWN ARE APPLICABLE FOR BOTH THE SIDES UNLESS IT IS SPECIFICALLY WRITTEN.

	LRSB	LONG RETRACTABLE SOOT BLOWER
	WB.	WALL BLOWER
F	F	FUTURE WALL BLOWER
	TP	TEMPERATURE PROBE
	AD.	ACCESS DOOR
	OBD.	OBSERVATION DOOR
TP		TERMINAL POINT
	MBL	MAIN BRACE LEVEL
	WP.	WORK POINT
	BS	BUCK STAY
	FG.	FURNACE GUIDE AT AXIS OF BOILER
	FG.	FURNACE GUIDE
F	F	FUTURE LRSB
	WCAD	WATER COOLED ACCESS DOOR
	LL	LIFT LANDING

CUSTOMER NO: 1609

REV.	DATE	DESCRIPTIONS	DRN	DGN	CHK	APP
01	09.01.10	THE FOLLOWING CHANGES IN BUCKSTAYS WERE DONE AS PER DETAILING REQUIREMENTS. 1.BS @ EL 22000 RELOCATED TO 22600. 2.ASLD @ EL 23000 RELOCATED TO 23600. 3.BS @ EL 45785 RELOCATED TO 45350. 4.BS BEAM @ EL 69300 IN FRONT WATER WALL RESTRICTED TO 600 MAX. 5.INSTRUMENT INSERT @ EL 76250 BELOW THE FUTURE LRSB LOWERED BY 200MM. 6.TITLE BLOCK UPDATED. 7.KEY PLAN UPDATED. 8.RH INLET AND OUTLET HEADER EL. UPDATED. 9.REFERENCE DRAWING LIST UPDATED. 10.CD BAY DISTANCE UPDATED. 11.REFERENCE LEVEL ADDED. 12.DRAWING UPDATED.	L S A		R.A.P	R.A.P

OWNER

KORBA WEST POWER COMPANY LIMITED.

OWNER'S ENGINEER

FICHTNER

FICHTNER INDIA Consulting Engineers (India) Private Limited

CHENNAI, MUMBAI, BANGALORE.

PROJECT

1x600 MW KWPCL RAIGARH PROJECT
CHHATTISGARH

BHARAT HEAVY ELECTRICALS LTD
HIGH PRESSURE BOILER PLANT UNIT,
TIRUCHIRAPALLI–620014.

	NAME	SIGN	DATE	DEPT CODE
DRAWN	L.SIMON ALEXANDER	Sd...	03/06/2009	3550
CHECKED	R.ARUL PRABHU	Sd...	03/06/2009	
APPROVED	R.ARUL PRABHU	Sd...	03/06/2009	

ALL DIMENSIONS ARE IN mm

DRAWING TITLE: GENERAL ARRANGEMENT OF BOILER SECTIONAL SIDE ELEVATION

SCALE	PJT. NO.	DRAWING NUMBER	REV.
1:125	XXXX	0-00-022-75111	01

A0 (841x1189mm)

PROJECT DWG NO.

CAD DWG – DO NOT REVISE MANUALLY

FILE NAME : xxxxxx.dwg

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FILE NAME: AD-ISO