

- REFERENCE DRAWING NUMBERS:-**
- 1. GA OF BOILER SEC. SIDE ELEVATION - 0-00-22-74945
 - 2. GA OF BOILER PLAN (SEC.A) - 0-00-22-74946
 - 3. GA OF BOILER FRONT ELEVATION - 0-00-22-74947
 - 4. GA OF BOILER PLAN (SEC. BB & CC) - 0-00-22-74948
 - 5. GA OF BOILER PLAN (SEC. DD) - 0-00-22-74949
 - 6. LAYOUT OF KEY PLAN OF BOILERS - 0-00-22-74950
 - 7. LOC. OF FURNACE OPENING AND BUCKSTAYS - 0-00-22-74951
 - 8. TP DETAILS OF WH. CRH & PRL - 0-00-22-74952
 - 9. LAYOUT OF WLD AIR DUCTING (ELEVATION) - 0-00-22-74953
 - 10. LAYOUT OF COLD AIR DUCTING (PLAN) - 0-00-22-74954
 - 11. LAYOUT OF HOT AIR DUCTING (ELEVATION) - 0-00-22-74955
 - 12. LAYOUT OF HOT AIR DUCTING (PLAN) - 0-00-22-74956
 - 13. LAYOUT OF FLUE GAS DUCTING - 0-00-22-74957
 - 14. FLOOR PLAN DRAWINGS:-
 - FLOOR PLAN AT EL.4800 - 0-00-22-74961
 - FLOOR PLAN AT EL.5350 & 5400 - 0-00-22-74975
 - FLOOR PLAN AT EL.5750 - 1-00-22-71239
 - TO EL.6250 - 1-00-22-71246

- 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 W.R.T EL. 0.000M WHICH CORRESPONDS TO RL. +275.50M.

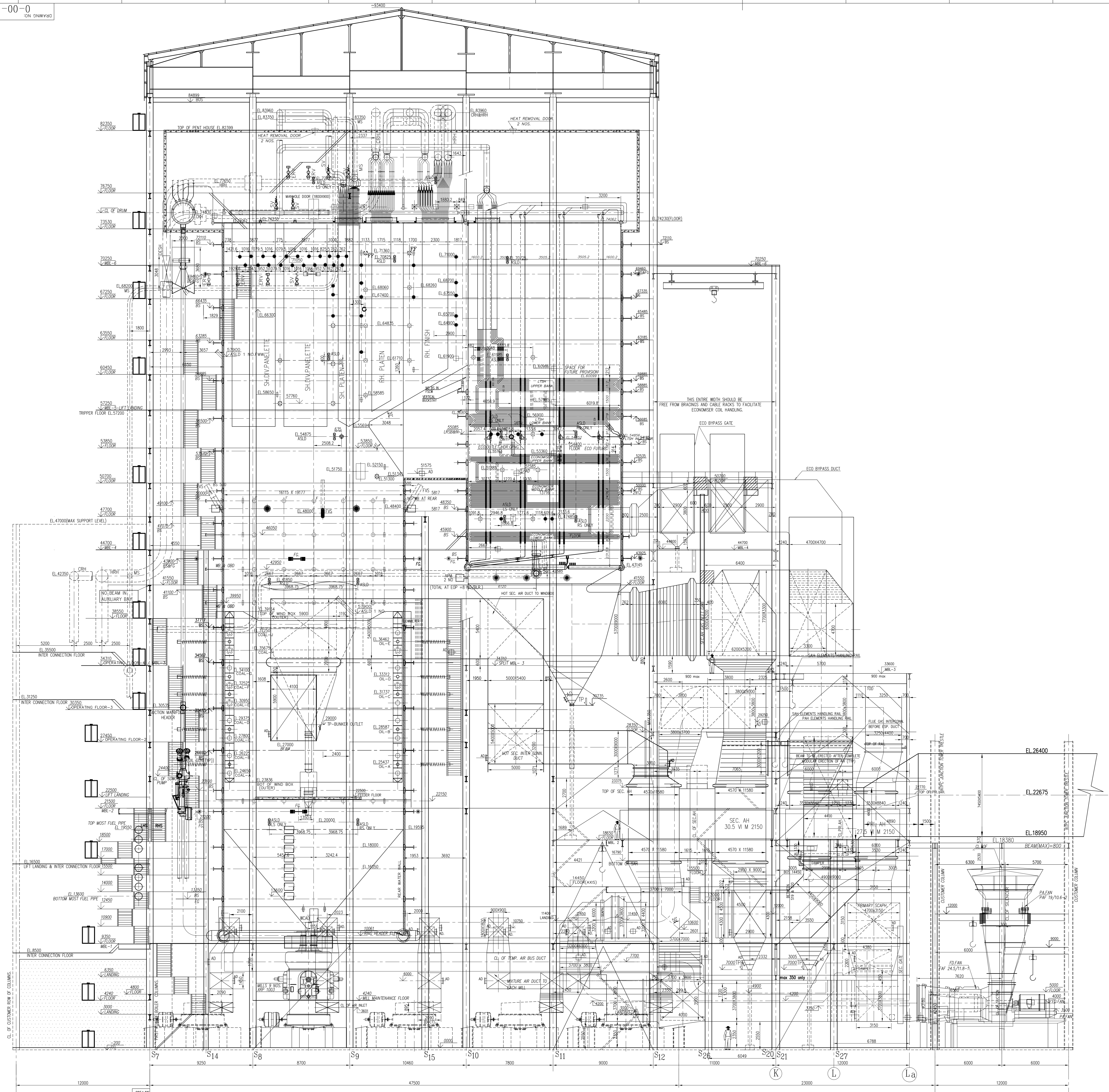
BOILER PARAMETERS (BMCR)

MAXIMUM CONTINUOUS RATING	- 1590 t/h
PRESSURE OF SUPER HEATED STEAM	- 178 kg/50cm ² (g)
TEMPERATURE OF SUPERHEATED STEAM	- 540°C
STEAM FLOW AT REHEATER OUTLET	- 1358 t/h
ENTRY PRESSURE OF REHEATED STEAM	- 45.02 kg/50cm ² (g)
ENTRY TEMPERATURE OF REHEATED STEAM	- 337.5°C
EXIT PRESSURE OF REHEATED STEAM	- 42.37 kg/50cm ² (g)
EXIT TEMPERATURE OF REHEATED STEAM	- 568°C
FEED WATER INLET TEMPERATURE	- 254.5°C

DESCRIPTION OF UNIT:-
 CONTROLLED CIRCULATION, SINGLE DRUM, RADIANT, DRY BOTTOM, SINGLE REHEAT, PULVERIZED COAL FIRED OUT DOOR, UTILITY UNIT, BALANCED DRAUGHT, CUT CORNER, 51 mm O.D. TUBES AT 63.5 mm CENTERS, WRAP AROUND BUCKSTAY SYSTEM. TWO NOS. OF EACH 500 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	FUTURE WALL BLOWER
⊕	TP	TEMPERATURE PROBE
⊕	AD	ACCESS DOOR
⊕	ODD	OBSERVATION DOOR
⊕	TP	TERMINAL POINT
⊕	WBL	MAIN BRACE LEVEL
⊕	WP	WORK POINT
⊕	BS	BUCK STAY
⊕	FG	FURNACE GUIDE AT AXIS OF BOILER
⊕	FG	FURNACE GUIDE
⊕	APM	ACOUSTIC PYRO METER OPENINGS
⊕	WCAD	WATER COOLED ACCESS DOOR
⊕	IN	INSTRUMENT INSERT
⊕	FVS	FLAME VIEWING SYSTEM
⊕	FPF	FUTURE USRB WITH FLOOR IN ORIGINAL DESIGN
⊕	ASLD	ACOUSTIC STEAM LEAK DETECTION SYSTEM



SECTIONAL SIDE ELEVATION

JOB NO:

STATUS: CONTRACT

DISTRIBUTION:

TO:

NO. OF:

REV	DATE	ALTD	CHD	APPD	REASON
01	11-06-09	T. Sankar	T. Sankar	M. Mohanram	

NOTE NO. 4 INCLUDED
 FUTURE ECO. COIL INDICATED
 FURNACE BOTTOM OPENING DIMENSIONS INDICATED
 AS ON BOTH SIDES OF PA & FD FAN OUTLET
 GATES INDICATED
 BOILER CENTERLINE AXIS FOR UNITS 5 & 6 INTERCHANGED
 CHIMNEY & AXIS OF BOILER UNITS CO ORDINATES REVEID
 ASLD LEGEND INCORPORATED
 NTPC MARKED UP COMMENTS UPDATED AS PER NTPC TR NO. 51, DTD. 26/05/09

CUSTOMER NO.: 0669 & 0670

NTPC DRG. NO. : 1240-101-02-TR-PVM-B-002

NATIONAL THERMAL POWER CORPORATION LTD.
 RIHAND SUPER THERMAL POWER PROJECT
 STEAM GENERATOR WITH ELECTROSTATIC PRECIPITATOR PACKAGE

REV	DATE	NAME	SIGN	DATE
DRN	11-06-09	K. Sankar		04-04-09
DES	11-06-09	T. Sankar		04-04-09
CHD	11-06-09	T. Sankar		04-04-09
APPD	11-06-09	M. Mohanram		04-04-09

BHARAT HEAVY ELECTRICALS LTD.
 BOILER PLANT UNIT
 TIRUCHIRAPPALLI -- 620 014

GENERAL ARRANGEMENT OF BOILER SECTIONAL SIDE ELEVATION

DRAWING NO. 0-00-22-74945
 SCALE 1:125
 SHEET 1 OF 1 REV 01