

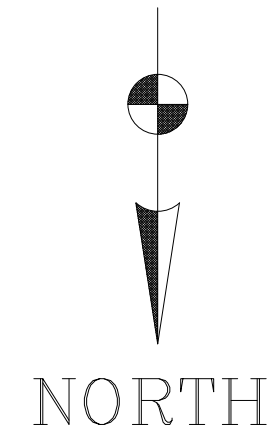
DESCRIPTION	DRAWING NO.
GENERAL ARRGT. OF BOILER SECTIONAL SIDE ELEVATION "E-E"	0-00-022-7975
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "A-A"	0-00-022-7976
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "B-B"	0-00-022-7977
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "C-C"	0-00-022-7978
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "D-D"	0-00-022-7979
GENERAL ARRGT. OF BOILER FRONT ELEVATION	0-00-022-7980
BOILER EQUIPMENT DESIGNATION	1-00-020-71654
LAYOUT OF ID SYSTEM - ELEVATION	0-00-022-7982
LAYOUT OF ID SYSTEM - PLAN	0-00-022-7983
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 1 OF 2	0-00-022-7986
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 2 OF 2	0-00-022-7987
LAYOUT OF COLD AIR DUCTING - COLD PRI. AIR DUCT TO MILLS	0-00-022-7988
LAYOUT OF COLD AIR DUCTING - SEC. AIR DUCT TO AIR HEATER	0-00-022-7989
LAYOUT OF HOT AIR DUCTING - HOT PRI. AIR DUCT TO MILLS	0-00-022-7990
LAYOUT OF HOT AIR DUCTING - HOT SEC. AIR DUCT TO WINBOX	0-00-022-7991
LAYOUT OF SOFA DUCTING	0-00-022-7992
LAYOUT OF FLUE GAS DUCTING - GAS DUCT TO AIR HEATER	0-00-022-7993
LAYOUT OF FLUE GAS DUCTING - GAS DUCT FROM AIR HEATER	0-00-022-7994
BOILER FLOOR PLAN ARRGT. DRAWINGS	0-00-021-7796
	16
	0-00-021-7801

ALL ELEVATIONS ARE WITH RESPECT TO EL +(+0.00) CORRESPOND TO RL 230.3
2. TOP OF PAVING FOR BOILER AND ESP AREAS IS EL -0.2M
3. TOP OF MILL BUILDING BUILDING AND CHIMNEY IS EL -0.2M
4. FOR ALL INFORMATION & DIMENSIONS, SEE REFERENCE DRAWINGS.
5. ALL DUCT DIMENSIONS ARE TO THE INSIDE OF DUCT PLATES.
6. ALL INSIDE DUCT RADI TO BE 1000mm.
7. ALL FURNACE OPENINGS ARE IN BOTH SIDES OF FURNACE, UNLESS NOTED.
8. ALL PLATFORM ELEVATIONS ARE TO TOP OF GRATING, UNLESS NOTED.
9. CENTERLINE OF ALL DUCT ACCESS DOORS TO BE LOCATED 600mm ABOVE BOTTOM
10. INSIDE OF DUCT PLATES UNLESS NOTED.
11. IT IS THE INTENT OF THE GEN. ARRG'TS. TO SHOW ONLY THE MAJOR BOILER EQUIPMENT
COMPONENTS AND ACCESSORIES. ALL OTHER EQUIPMENT IS SHOWN TO A LIMITED EXTENT
AND IS NOT TO BE CONSIDERED AS PART OF THE EQUIPMENT ARRANGEMENT.
ALL SIZES AND DIMENSIONS SHOWN ARE IN MILLIMETERS.

A - PRIMARY AIR
 SA - SECONDARY AIR
 PH - AIR PREHEATER
 AD - ACCESS DOOR
 CR - SELECTIVE CATALYTIC REACTOR
 S - MAIN STEAM
 HRH - HOT REHEAT
 CRRH - COLD REHEAT
 OFA - SEPARATED OVER FIRED AIR

SECTIONAL PLAN "B-B"

CUSTOMER DRAWING NO. _____		CUSTOMER _____	
		NLC INDIA LIMITED NEYVELL, TAMILNADU	
		CONSULTANT DEVELOPMENT CONSULTANTS PVT LTD. CONSULTING ENGINEERS KOLKATA MUMBAI CHENNAI NEW DELHI	
PROJECT		NLC TALABIRA THERMAL POWER PROJECT (NTTPT) (3X80 MW PHASE-I)	
		BHARAT HEAVY ELECTRICALS LTD BOILER PLANT UNIT TIRUCHIRAPPALLI INDIA - 620014 EQUIPMENT : STEAM GENERATOR	
TITLE		GENERAL ARRGT. OF BOILER-PLAN "B-B"	
DEPT.		ALL DIMENSIONS ARE IN MILLIMETERS	
SHEET		SCALE: 1:175	
DATE			
3		2	
DRAWING NO		0-00-022-77977	
SHEET		1 OF 1	
REV.		00	
1		1	



REFERENCE DRAWINGS

DESCRIPTION	DRAWING NO.
GENERAL ARRGT. OF BOILER SECTIONAL SIDE ELEVATION "E-E"	0-00-022-7975
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "A-A"	0-00-022-7976
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "B-B"	0-00-022-7977
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "C-C"	0-00-022-7978
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "D-D"	0-00-022-7979
GENERAL ARRGT. OF BOILER FRONT ELEVATION	0-00-022-7980
BOILER EQUIPMENT DESIGNATION	1-00-020-7164
LAYOUT OF ID SYSTEM - ELEVATION	0-00-022-7982
LAYOUT OF ID SYSTEM - PLAN	0-00-022-7983
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 1 OF 2	0-00-022-7986
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 2 OF 2	0-00-022-7987
LAYOUT OF COLD AIR DUCTING - COLD PRI. AIR DUCT TO MILLS	0-00-022-7988
LAYOUT OF COLD AIR DUCTING - SEC. AIR DUCT TO AIR HEATER	0-00-022-7989
LAYOUT OF HOT AIR DUCTING - HOT PRI. AIR DUCT TO MILLS	0-00-022-7990
LAYOUT OF HOT AIR DUCTING - HOT SEC. AIR DUCT TO WINDBOX	0-00-022-7991
LAYOUT OF SOFA DUCTING	0-00-022-7992
LAYOUT OF FLUE GAS DUCTING - GAS DUCT TO AIR HEATER	0-00-022-7993
LAYOUT OF FLUE GAS DUCTING - GAS DUCT FROM AIR HEATER	0-00-022-7994
BOILER FLOOR PLAN ARRGT. DRAWINGS	0-00-021-7996
	0-00-021-7802

GENERAL NOTES:

4. ALL ELEVATIONS ARE WITH RESPECT TO EL. (+10.00M) CORRESPONDS TO RL20.3
5. TOP OF PAVING FOR BOILER AND ESP AREAS IS EL. -0.2M
6. FFJ OF MILL BURNER BUILDING & CHIMNEY IS EL. 0M
7. TOP FOR INFORMATION OF DESIGNER & DIMENSIONS GIVEN IN DRAWINGS.
8. ALL DUCT DIMENSIONS ARE TO THE INSIDE OF THE DUCTS.
9. ALL INSIDE DUCT RADI TO BE 600MM, UNLESS NOTED
10. FURNACE OPENING ARE AS IN BOILER SPEC. FOR PLACE, UNLESS NOTED
11. ALL PLATFORM ELEVATIONS ARE TO TOP OF GRATING, UNLESS NOTED
12. CENTERLINE OF ALL DUCT ACCESS DOORS TO BE LOCATED 600MM ABOVE BOTTOM
13. WEIR OF DUCT ACCESS DOORS TO BE 100MM ABOVE BOTTOM
14. IT IS THE INTENT OF THE GEN. ARRGT'S. TO SHOW ONLY THE MAJOR BOILER EQUIPMENT COMPONENTS AND ACCESSORIES. ALL OTHER EQUIPMENT IS SHOWN TO A LIMITED EXTENT AND ONLY WHERE IT IS NECESSARY FOR MANAGEMENT
15. ALL SIZES AND DIMENSIONS SHOWN ARE IN MILLIMETERS.

LEGENDS:

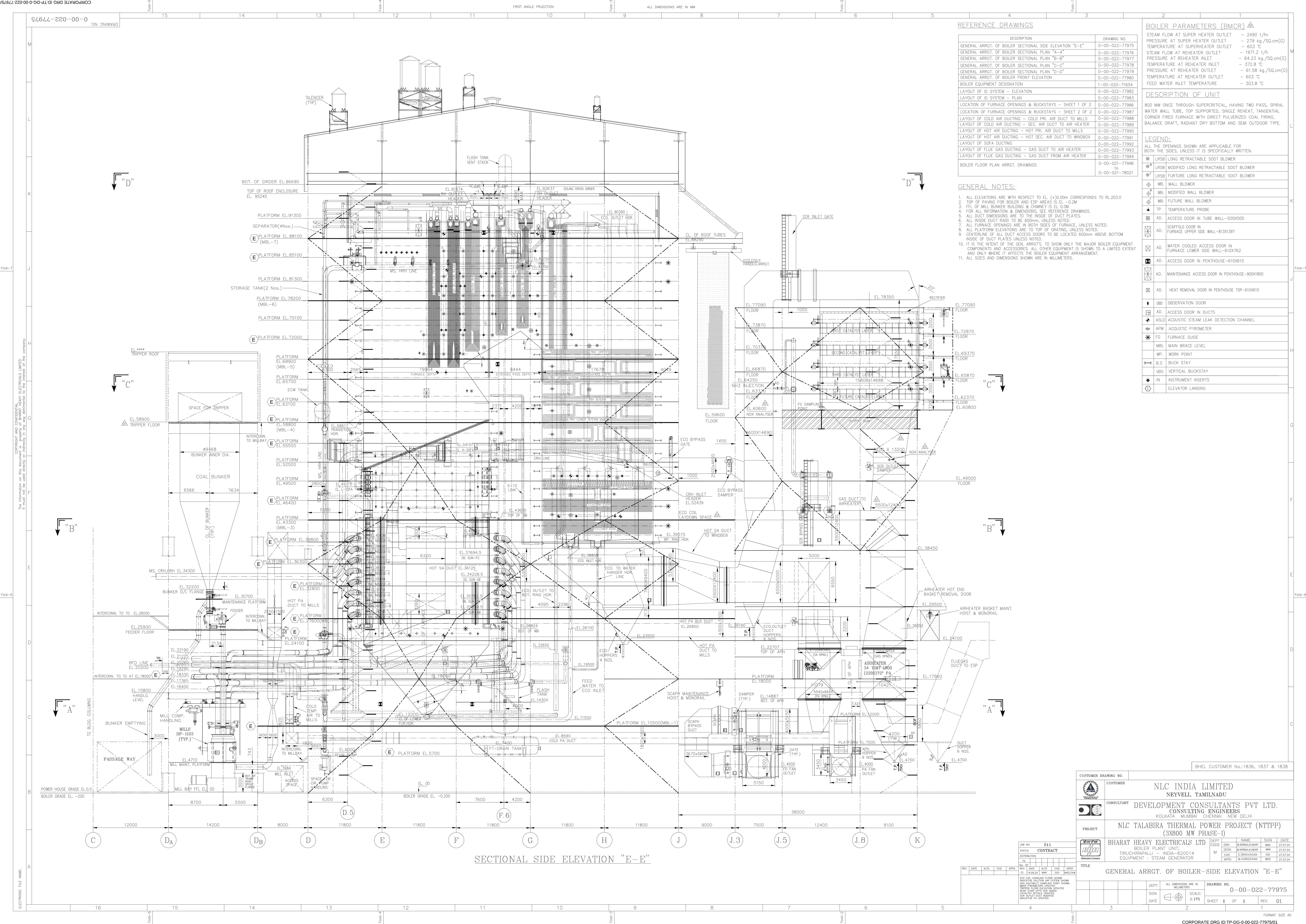
- APH - AIR PREHEATER
AD - ACCESS DOOR
SCR - SELECTIVE CATALYTIC REACTOR
HRH - HOT REHEAT
MS - MAIN STEAM
BS - BUCKSTAY
SV - SAFETY VALVE
ERV - ELECTROMATIC RELIEF VALVE
MSSL - MAIN STEAM STOP VALVE
WP - WORKPOINT

SECTIONAL PLAN "D-D"

JOB NO.	511
STATUS	CONTRACT
DISTRIBUTION	
TO	

[illegible][illegible]

CUSTOMER DRAWING NO.				SHEET NO.		PAGE NO.	
CUSTOMER		NLC INDIA LIMITED NEVELLY, TAMILNADU					
CONSULTANT		DEVELOPMENT CONSULTANTS PVT LTD. CONSULTING ENGINEERS KOLKATA MUMBAI CHENNAI NEW DELHI					
PROJECT		NLC TALABIRA THERMAL POWER PROJECT (NTTPP) (3X800 MW PHASE-I)					
		BHARAT HEAVY ELECTRICALS LTD BOILER PLANT UNIT: TIRUCHIRAPPALLI - INDIA-620014 EQUIPMENT : STEAM GENERATOR		DEPT CODE M	NAME S.NIRMAKULAKAR S.NIRMAKULAKAR S.SRINIVASAN APPD.	SIGN MWK MWK SSV MWK	DATE 26.11.24 26.11.24 26.11.24 26.11.24
TITLE:		GENERAL ARRGT. OF BOILER-PLAN "D-D"					
		DEPT.	ALL DIMENSIONS ARE IN MILLIMETERS		DRAWING NO. 0-00-022-779799		
		SIGN			SCALE: 1:175		
		DATE			SHEET 1 OF 1 REV. 00		
3	2	1					
FORMAT SIZE A0							



REFERENCE DRAWINGS

DESCRIPTION	DRAWING NO.
GENERAL ARRGT. OF BOILER SECTIONAL SIDE ELEVATION "E-E"	0-00-022-77975
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "A-A"	0-00-022-77976
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "B-B"	0-00-022-77977
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "C-C"	0-00-022-77978
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "D-D"	0-00-022-77979
GENERAL ARRGT. OF BOILER FRONT ELEVATION	0-00-022-77980
BOILER EQUIPMENT DESIGNATION	1-00-020-71654
LAYOUT OF ID SYSTEM - ELEVATION	0-00-022-77982
LAYOUT OF ID SYSTEM - PLAN	0-00-022-77983
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 1 OF 2	0-00-022-77986
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 2 OF 2	0-00-022-77987
LAYOUT OF COLD AIR DUCTING - COLD PRI. AIR DUCT TO MILLS	0-00-022-77988
LAYOUT OF COLD AIR DUCTING - SEC. AIR DUCT TO AIR HEATER	0-00-022-77989
LAYOUT OF HOT AIR DUCTING - HOT PRI. AIR DUCT TO MILLS	0-00-022-77990
LAYOUT OF HOT AIR DUCTING - HOT SEC. AIR DUCT TO WINDBOX	0-00-022-77991
LAYOUT OF SOFA DUCTING	0-00-022-77992
LAYOUT OF FLUE GAS DUCTING - GAS DUCT TO AIR HEATER	0-00-022-77993
LAYOUT OF FLUE GAS DUCTING - GAS DUCT FROM AIR HEATER	0-00-022-77994
BOILER FLOOR PLAN ARRGT. DRAWINGS	0-00-021-77996 to 0-00-021-78021

GENERAL NOTES:

1. ALL ELEVATIONS ARE WITH RESPECT TO EL. (+)0.00m CORRESPONDS TO RL.203.0
2. TOP OF PAVING FOR BOILER AND ESP AREAS IS EL. -0.2M
3. FFL OF MILL BUNKER BUILDING & CHIMNEY IS EL. 0.0M
4. FOR ALL INFORMATION & DIMENSIONS, SEE REFERENCE DRAWINGS.
5. ALL DUCT DIMENSIONS ARE TO THE INSIDE OF DUCT PLATES.
6. ALL INSIDE DUCT RADI TO BE 600mm, UNLESS NOTED.
7. ALL FURNACE OPENINGS ARE IN BOTH SIDES OF FURNACE, UNLESS NOTED.
8. ALL PLATFORM ELEVATIONS ARE TO TOP OF GRATING, UNLESS NOTED.
9. CENTERLINE OF ALL DUCT ACCESS DOORS TO BE LOCATED 600mm ABOVE BOTTOM INSIDE OF DUCT PLATES UNLESS NOTED.
10. IT IS THE INTENT OF THE GEN. ARRGT'S. TO SHOW ONLY THE MAJOR BOILER EQUIPMENT COMPONENTS AND ACCESSORIES. ALL OTHER EQUIPMENT IS SHOWN TO A LIMITED EXTENT AND ONLY WHERE IT AFFECTS THE BOILER EQUIPMENT ARRANGEMENT.
11. ALL SIZES AND DIMENSIONS SHOWN ARE IN MILLIMETERS.

BOILER PARAMETERS (BMCR)

STEAM FLOW AT SUPER HEATER OUTLET	~ 2490 t/hr
PRESSURE AT SUPER HEATER OUTLET	~ 279 kg./SQ.cm(G)
TEMPERATURE AT SUPERHEATER OUTLET	~ 603 °C
STEAM FLOW AT REHEATER OUTLET	~ 1971.2 t/h
PRESSURE AT REHEATER INLET	~ 64.23 kg./SQ.cm(G)
TEMPERATURE AT REHEATER INLET	~ 372.8 °C
PRESSURE AT REHEATER OUTLET	~ 61.58 kg./SQ.cm(G)
TEMPERATURE AT REHEATER OUTLET	~ 603 °C
FEED WATER INLET TEMPERATURE	~ 303.8 °C

DESCRIPTION OF UNIT

800 MW ONCE THROUGH SUPERCRITICAL, HAVING TWO PASS, SPIRAL WATER WALL TUBE, TOP SUPPORTED, SINGLE REHEAT, TANGENTIAL CORNER FIRED FURNACE WITH DIRECT PULVERIZED COAL FIRING, BALANCE DRAFT, RADIANT DRY BOTTOM AND SEMI OUTDOOR TYPE.

LEGEND:

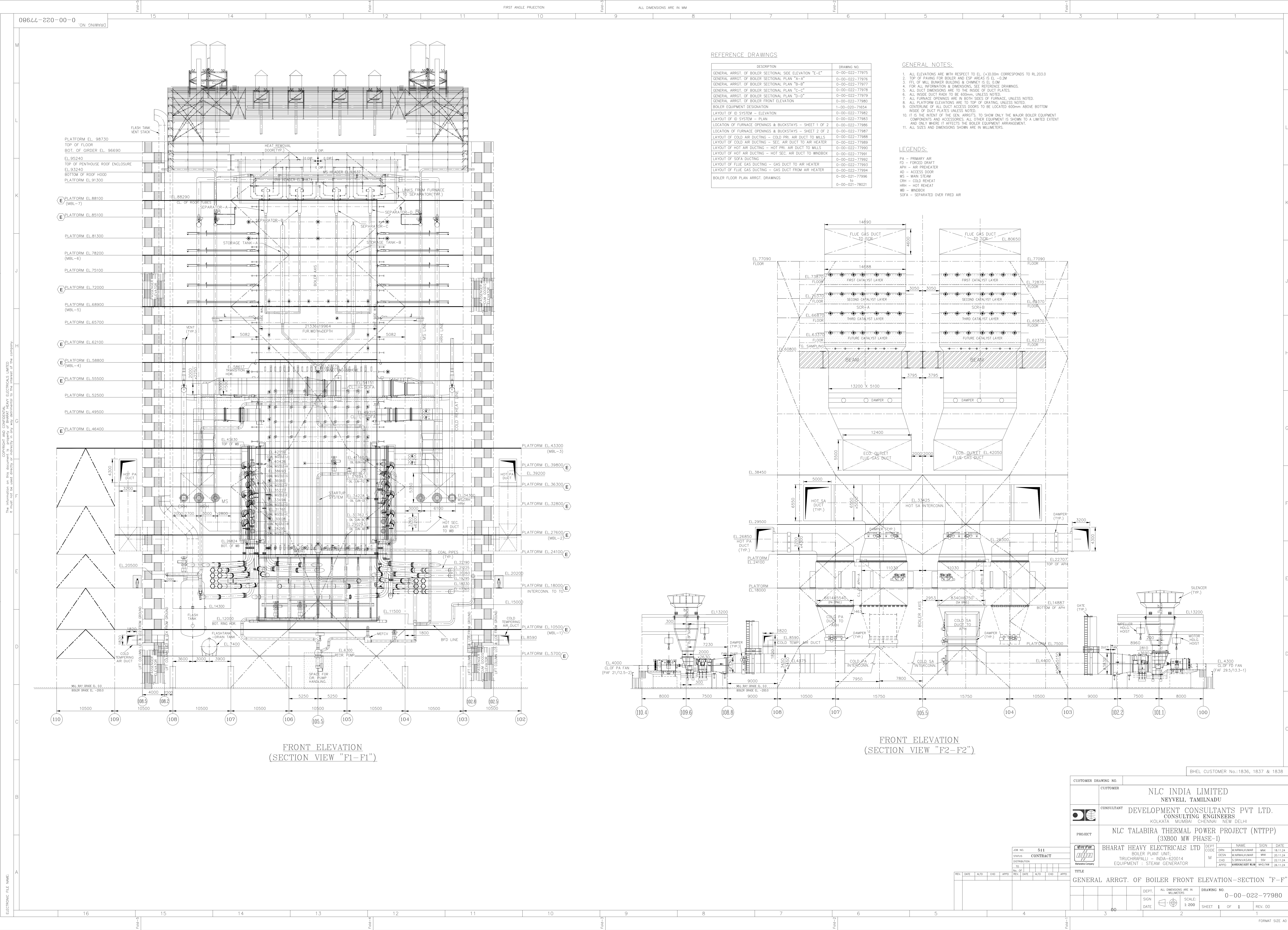
ALL THE OPENINGS SHOWN ARE APPLICABLE FOR BOTH THE SIDES, UNLESS IT IS SPECIFICALLY WRITTEN.

	LRSB	LONG RETRACTABLE SOOT BLOWER
	LRSB	MODIFIED LONG RETRACTABLE SOOT BLOWER
	LRSB	FUTURE LONG RETRACTABLE SOOT BLOWER
	WB	WALL BLOWER
	WB	MODIFIED WALL BLOWER
	WB	FUTURE WALL BLOWER
	TP	TEMPERATURE PROBE
	AD	ACCESS DOOR IN TUBE WALL-500X500
	AD	SCAFFOLD DOOR IN FURNACE UPPER SIDE WALL-813X1397
	AD	WATER COOLED ACCESS DOOR IN FURNACE LOWER SIDE WALL-610X762
	AD	ACCESS DOOR IN PENTHOUSE-610X610
	AD	MAINTENANCE ACCESS DOOR IN PENTHOUSE-900X1800
	AD	HEAT REMOVAL DOOR IN PENTHOUSE TOP-610X610
	OD	OBSERVATION DOOR
	AD	ACCESS DOOR IN DUCTS
	ASLD	ACOUSTIC STEAM LEAK DETECTION CHANNEL
	APM	ACOUSTIC PYROMETER
	FG	FURNACE GUIDE
	MBL	MAIN BRACE LEVEL
	WP	WORK POINT
	B.S	BUCK STAY
	VBS	VERTICAL BUCKSTAY
	IN	INSTRUMENT INSERTS
		ELEVATOR LANDING

SECTIONAL SIDE ELEVATION "E-E"

CUSTOMER DRAWING NO.		CUSTOMER		NLC INDIA LIMITED NEYVELI, TAMILNADU	
CONSULTANT		DEVELOPMENT CONSULTANTS PVT LTD. CONSULTING ENGINEERS KOLKATA MUMBAI CHENNAI NEW DELHI			
PROJECT		NLC TALABIRA THERMAL POWER PROJECT (NTTPP) (3X800 MW PHASE-I)			
BHARAT HEAVY ELECTRICALS LTD.		BOILER PLANT UNIT: TIRUCHIRAPPALLI - INDIA-620014 EQUIPMENT : STEAM GENERATOR			
DESIGN	NAME	SIGN	DATE		
DRN	MARNAKUNAR	WVK	27.07.24		
DES	MARNAKUNAR	WVK	27.07.24		
APP	MARNAKUNAR	WVK	27.07.24		

JOB NO. 511		STATUS CONTRACT		DISTRIBUTION	
REV	DATE	ALTD	CHD	APRD	
01	14.09.24	WVK	SSV	WVK/AMK	
ECO. COIL HANDLING FLOOR SHOWN WITH WATER DUCTING AND SYSTEM SLOPE INDICATED. FLOOR LEVEL INDICATED INDICATE TO BE UPDATED INDICATE TO BE UPDATED					
DEPT.		ALL DIMENSIONS ARE IN MILLIMETERS		DRAWING NO. 0-00-022-77975	
SIGN		SCALE: 1:175		SHEET 1 OF 1	
DATE				REV. 01	



REFERENCE DRAWINGS

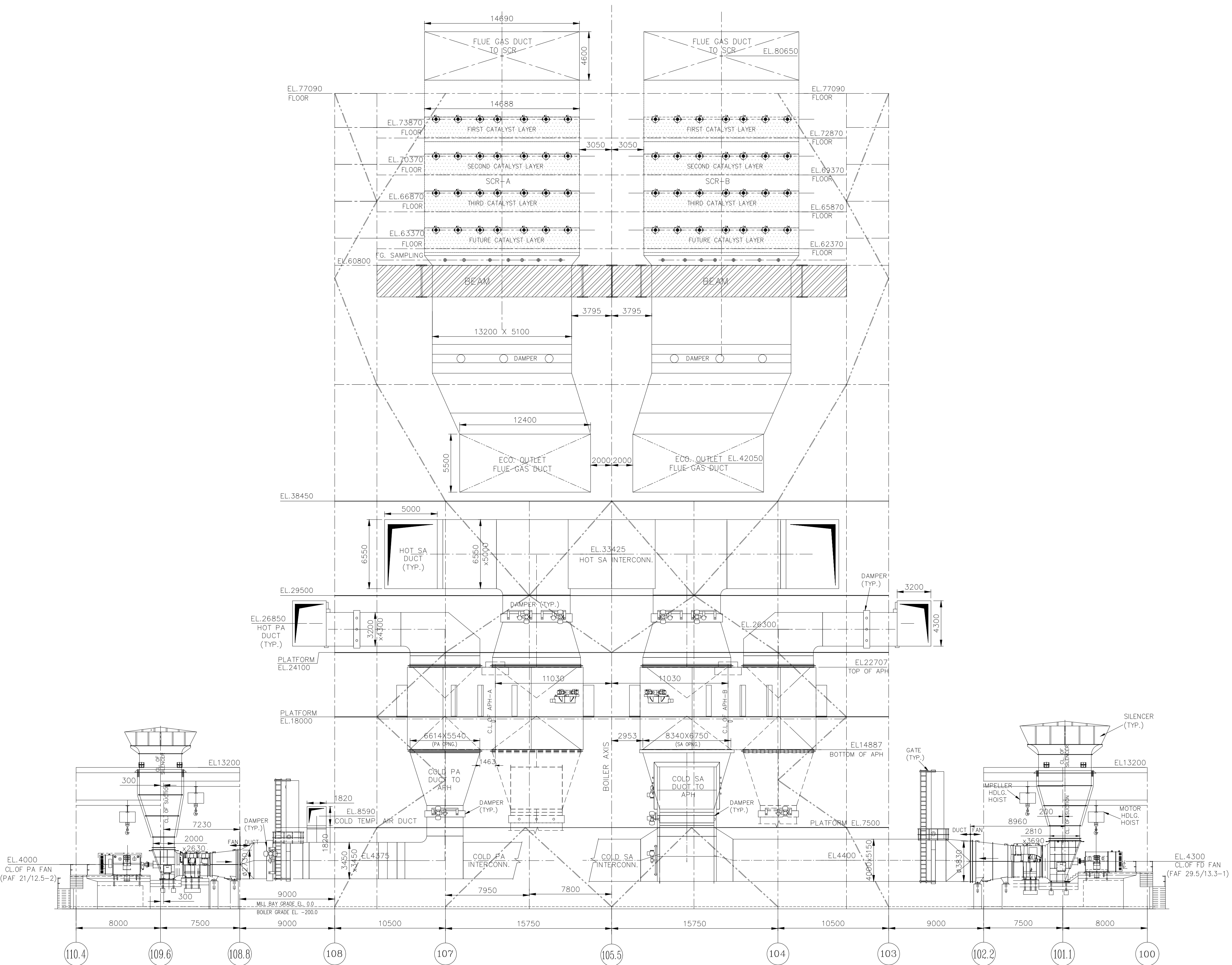
DESCRIPTION	DRAWING NO.
GENERAL ARRGT. OF BOILER SECTIONAL SIDE ELEVATION "E-E"	0-00-022-77975
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "A-A"	0-00-022-77976
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "B-B"	0-00-022-77977
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "C-C"	0-00-022-77978
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "D-D"	0-00-022-77979
GENERAL ARRGT. OF BOILER FRONT ELEVATION	0-00-022-77980
BOILER EQUIPMENT DESIGNATION	1-00-020-71654
LAYOUT OF ID SYSTEM - ELEVATION	0-00-022-77982
LAYOUT OF ID SYSTEM - PLAN	0-00-022-77983
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 1 OF 2	0-00-022-77986
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 2 OF 2	0-00-022-77987
LAYOUT OF COLD AIR DUCTING - COLD PRI. AIR DUCT TO MILLS	0-00-022-77988
LAYOUT OF COLD AIR DUCTING - SEC. AIR DUCT TO AIR HEATER	0-00-022-77989
LAYOUT OF HOT AIR DUCTING - HOT PRI. AIR DUCT TO MILLS	0-00-022-77990
LAYOUT OF HOT AIR DUCTING - HOT SEC. AIR DUCT TO WINDBOX	0-00-022-77991
LAYOUT OF SOFA DUCTING	0-00-022-77992
LAYOUT OF FLUE GAS DUCTING - GAS DUCT TO AIR HEATER	0-00-022-77993
LAYOUT OF FLUE GAS DUCTING - GAS DUCT FROM AIR HEATER	0-00-021-77996
BOILER FLOOR PLAN ARRGT. DRAWINGS	0-00-021-78021

GENERAL NOTES:

1. ALL ELEVATIONS ARE WITH RESPECT TO EL. (+)0.00m CORRESPONDS TO RL 20.0
2. TOP OF PAVING FOR BOILER AND ESP AREAS IS EL. -0.2M
3. FTL OF MILL BUNKER BUILDING & CHIMNEY IS EL. 0.0M
4. FOR ALL INFORMATION & DIMENSIONS, SEE REFERENCE DRAWINGS.
5. ALL DUCT DIMENSIONS ARE TO THE INSIDE OF DUCT PLATES.
6. ALL INSIDE DUCT RADI TO BE 600mm, UNLESS NOTED.
7. ALL FURNACE OPENINGS ARE IN BOTH SIDES OF FURNACE, UNLESS NOTED.
8. ALL PLATFORM ELEVATIONS ARE TO TOP OF GRATING, UNLESS NOTED.
9. CENTRELINE OF ALL DUCT ACCESS DOORS TO BE LOCATED 600mm ABOVE BOTTOM INSIDE OF DUCT PLATES UNLESS NOTED.
10. IT IS THE INTENT OF THE GEN. ARRGT'S TO SHOW ONLY THE MAJOR BOILER EQUIPMENT COMPONENTS AND ACCESSORIES. ALL OTHER EQUIPMENT IS SHOWN TO A LIMITED EXTENT AND ONLY WHERE IT AFFECTS THE BOILER EQUIPMENT ARRANGEMENT.
11. ALL SIZES AND DIMENSIONS SHOWN ARE IN MILLIMETERS.

LEGENDS:

- PA - PRIMARY AIR
FD - FORCED DRAFT
APH - AIR PREHEATER
AD - ACCESS DOOR
MS - MAIN STEAM
CRH - COLD REHEAT
HRH - HOT REHEAT
WB - WINDBOX
SOFA - SEPARATED OVER FIRED AIR



FRONT ELEVATION
(SECTION VIEW "F2-F2")

FRONT ELEVATION
(SECTION VIEW "F1-F1")

CUSTOMER DRAWING NO.		BHEL CUSTOMER No.:1836, 1837 & 1838	
CUSTOMER		NLC INDIA LIMITED NEYVELI, TAMILNADU	
CONSULTANT		DEVELOPMENT CONSULTANTS PVT LTD. CONSULTING ENGINEERS KOLKATA MUMBAI CHENNAI NEW DELHI	
PROJECT		NLC TALABIRA THERMAL POWER PROJECT (NTTPP) (3X800 MW PHASE-1)	
BHEARAT HEAVY ELECTRICALS LTD		BOILER PLANT UNIT, TRICHURAPALLI - NOVA-820014 EQUIPMENT : STEAM GENERATOR	
JOB NO. 511		DEPT. NAME SIGN DATE	
STATUS CONTRACT		DRN M.NIRMALAKUMAR MWK 18.11.24	
DISTRIBUTION TO		DESIGN M.NIRMALAKUMAR MWK 20.11.24	
REV. DATE		APPD. M.NIRMALAKUMAR MWK 22.11.24	
TITLE		GENERAL ARRGT. OF BOILER FRONT ELEVATION-SECTION "F-F"	
DEPT. SIGN		ALL DIMENSIONS ARE IN MILLIMETERS	
DATE		SCALE: 1:200	
SHEET 1 OF 1		DRAWING NO. 0-00-022-77980	
REV. 00		FORMAT SIZE: A0	