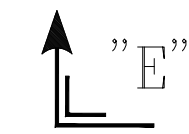


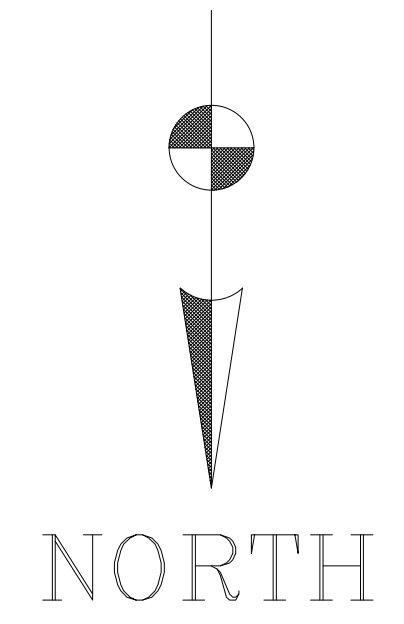
- GENERAL NOTES:-
1. ALL ELEVATIONS ARE WITH RESPECT TO EL. (+)0.00m, FINISHED GROUND FLOOR LEVEL OF TG BUILDING WHICH CORRESPONDS TO RL(+377.5M).
FINISHED GROUND FLOOR LEVEL (PAVING LEVEL) OF BOILER AND ESP AREAS ARE AT (-)0.200m, WHICH CORRESPONDS TO RL(+377.3M).
FINISHED GROUND FLOOR LEVEL (PAVING LEVEL) OF MILL BAY AND CHIMNEY AREA(INSIDE) ARE AT (+)0.00m, WHICH CORRESPONDS TO RL(+377.5M).
 2. FOR NOTES & LEGENDS REFER DRG.
"GEN. ARRGT OF BOILER-SIDE ELEVATION-"E-E"-0-00-022-77518

SECTIONAL PLAN 'C-C'



CUSTOMER DRS NO: 9585-001-102-PVM-B-007A		BHEL CUSTOMER No. : 1828,1829,1830	
CUSTOMER PATRATU VIDYUT UTPADAN NIGAM LIMITED (A Subsidiary of NTPC Ltd in Joint Venture with Jharkand Biji Viran Nigam Ltd)			
PROJECT PATRATU SUPER THERMAL POWER STATION EXPANSION PHASE-1 3X800 MW-UNIT NO: 01,02 & 03.			
CONTRACTOR Bharat Heavy Electricals Limited		BOILER PLANT UNIT, TRUCHIRAPALLI-620014	
DRG TITLE: GEN. ARRGT OF BOILER-PLAN-"C-C"			
OSGM GE POWER INC.,USA		ALL DIMENSIONS IN MILLIMETERS PROJECTION SCALE: 1:175	
DRAWN BY : KR CHECKED BY : KR APPROVED BY : KRISRAJ		DATE : 05-07-18 DATE : 06-07-18 DATE : 06-07-18	
DRAWING NO: 0-00-022-77521		REV. 00	

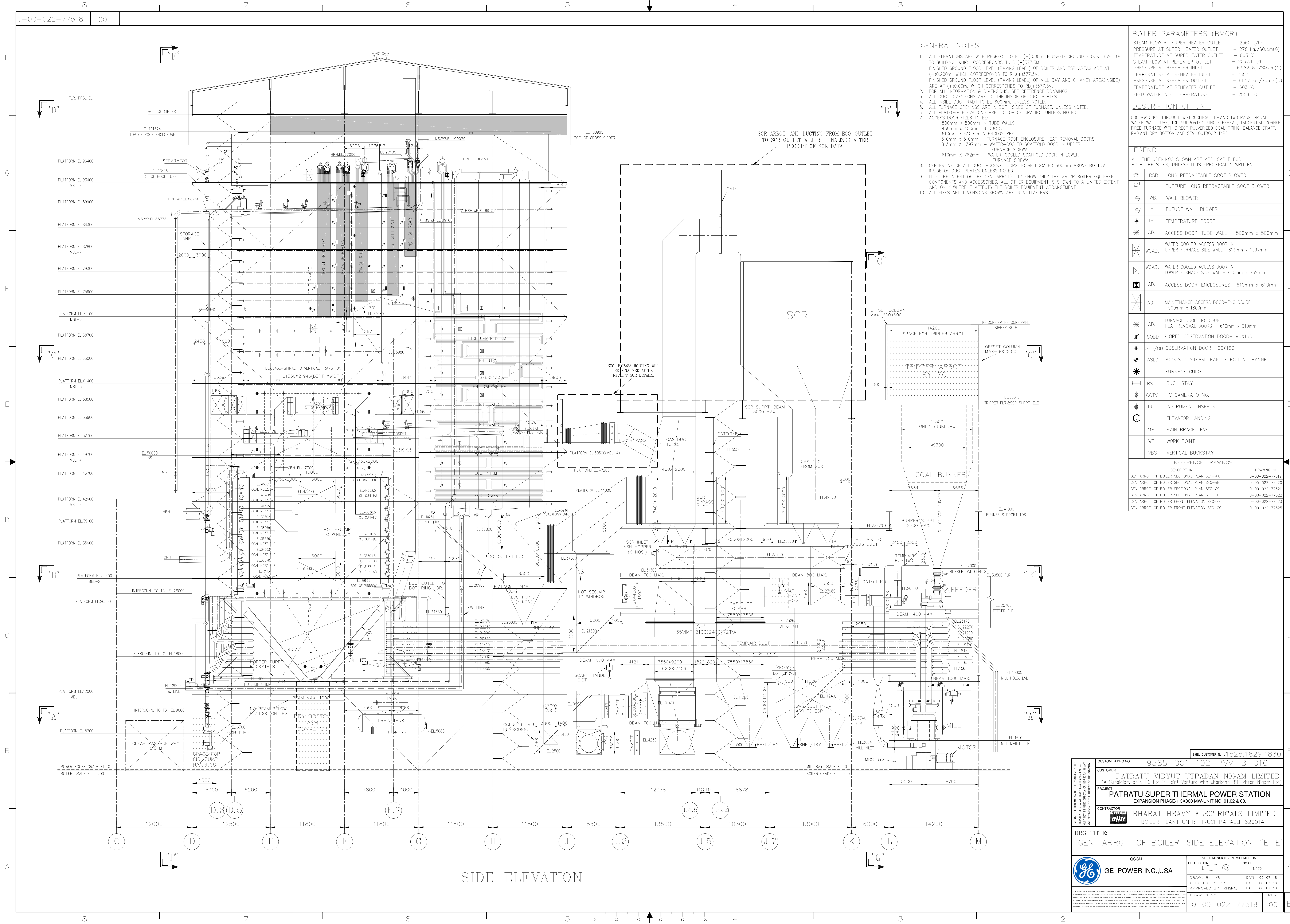


“E”



1. ALL ELEVATIONS ARE WITH RESPECT TO EL (+)0.00m, FINISHED GROUND FLOOR LEVEL OF TG BUILDING WHICH CORRESPONDS TO RL(+377.377M).
FINISHED GROUND FLOOR LEVEL (PAVING LEVEL) OF BOILER AND ESP AREAS ARE AT (-)0.200m, WHICH CORRESPONDS TO RL(+377.7M).
FINISHED GROUND FLOOR LEVEL (PAVING LEVEL) OF MILL BAY AND CHIMNEY AREA(INSIDE) ARE AT (+)0.00m, WHICH CORRESPONDS TO RL(+377.5M).
2. FOR NOTES & LEGENDS REFER DRG.
"GEN. ARGT OF BOILER-SIDE ELEVATION-"E-E"-0-00-022-77518

I HEREBY CERTIFY THAT THE INFORMATION IN THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED AND IS NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.	BHEL CUSTOMER No: 1828,1829,1830	
	CUSTOMER DRAWING NO: 9585-001-102-PVM-B-009	
	CUSTOMER: PATRATRU VIDYUT UTPADAN NIGAM LIMITED (A Subsidiary of NTPC Ltd in Joint Venture with Bharkand Biji Vitaran Nigam Ltd)	
	PROJECT: PATRATRU SUPER THERMAL POWER STATION EXPANSION PHASE-I 3X800 MW-UNIT NO: 01.02 & 03.	
	CONTRACTOR: BHARAT HEAVY ELECTRICALS LIMITED BOILER PLANT UNIT, TIRUCHIRAPALLI-620014	
DRG TITLE: GEN. ARRGT' OF BOILER-PLAN-"D-D"		
QSGM  GE POWER INC.,USA		
ALL DIMENSIONS IN MILLIMETERS PROJECTION:  SCALE: 1:175 DRAWN BY : KR DATE: 05-07-18 CHECKED BY : KR DATE: 06-07-18 APPROVED BY : KRISAJ DATE: 06-07-18		
DRAWING NO. 00-00-022-77522		
CREDIT REV.		00 E



GENERAL NOTES:-

1. ALL ELEVATIONS ARE WITH RESPECT TO EL. (+0.00m, FINISHED GROUND FLOOR LEVEL OF TO BUILDING, WHICH CORRESPONDS TO RL(+377.5M). FINISHED GROUND FLOOR LEVEL (PAVING LEVEL) OF BOILER AND ESP AREAS ARE AT (-)0.200m, WHICH CORRESPONDS TO RL(+377.3M). FINISHED GROUND FLOOR LEVEL (PAVING LEVEL) OF MILL BAY AND CHIMNEY AREA(INSIDE) ARE AT (+10.00m, WHICH CORRESPONDS TO RL(+377.5M). FOR ALL INFORMATION & DIMENSIONS, SEE REFERENCE DRAWINGS.
2. ALL DUCT DIMENSIONS ARE TO THE INSIDE OF DUCT PLATES.
3. ALL INSIDE DUCT RADII TO BE 600mm, UNLESS NOTED.
4. ALL FURNACE OPENINGS ARE IN BOTH SIDES OF FURNACE, UNLESS NOTED.
5. ALL PLATFORM ELEVATIONS ARE TO TOP OF GRATING, UNLESS NOTED.
6. ACCESS DOOR SIZES TO BE:
 - 500mm X 500mm IN TUBE WALLS
 - 450mm x 450mm IN DUCTS
 - 610mm x 610mm IN ENCLOSURES
 - 610mm x 610mm - FURNACE ROOF ENCLOSURE HEAT REMOVAL DOORS
 - 813mm X 1397mm - WATER-COOLED SCAFFOLD DOOR IN UPPER FURNACE SIDEWALL
 - 610mm X 762mm - WATER-COOLED SCAFFOLD DOOR IN LOWER FURNACE SIDEWALL
7. CENTERLINE OF ALL DUCT ACCESS DOORS TO BE LOCATED 600mm ABOVE BOTTOM INSIDE OF DUCT PLATES UNLESS NOTED.
8. 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.
9. ALL SIZES AND DIMENSIONS SHOWN ARE IN MILLIMETERS.

BOILER PARAMETERS (BMCR)

STEAM FLOW AT SUPER HEATER OUTLET	- 2560 t/hr
PRESSURE AT SUPER HEATER OUTLET	- 278 kg./SQ.cm(G)
TEMPERATURE AT SUPERHEATER OUTLET	- 603 °C
STEAM FLOW AT REHEATER OUTLET	- 2067.1 t/h
PRESSURE AT REHEATER INLET	- 63.82 kg./SQ.cm(G)
TEMPERATURE AT REHEATER INLET	- 369.2 °C
PRESSURE AT REHEATER OUTLET	- 61.17 kg./SQ.cm(G)
TEMPERATURE AT REHEATER OUTLET	- 603 °C
FEED WATER INLET TEMPERATURE	- 295.6 °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
⌘	F	FUTURE LONG RETRACTABLE SOOT BLOWER
⊕	WB.	WALL BLOWER
⊕	F	FUTURE WALL BLOWER
▲	TP	TEMPERATURE PROBE
⊠	AD.	ACCESS DOOR-TUBE WALL - 500mm x 500mm
⊠	WCAD.	WATER COOLED ACCESS DOOR IN UPPER FURNACE SIDE WALL - 813mm x 1397mm
⊠	WCAD.	WATER COOLED ACCESS DOOR IN LOWER FURNACE SIDE WALL - 610mm x 762mm
⊠	AD.	ACCESS DOOR-ENCLOSURES- 610mm x 610mm
⊠	AD.	MAINTENANCE ACCESS DOOR-ENCLOSURE -900mm x 1800mm
⊠	AD.	FURNACE ROOF ENCLOSURE HEAT REMOVAL DOORS - 610mm x 610mm
⌘	SOBD	SLOPED OBSERVATION DOOR- 90X160
⌘	OBD/OD	OBSERVATION DOOR- 90X160
⌘	ASLD	ACOUSTIC STEAM LEAK DETECTION CHANNEL
⌘	*	FURNACE GUIDE
⌘	BS	BUCK STAY
⌘	CCTV	TV CAMERA OPNG.
⌘	IN	INSTRUMENT INSERTS
⌘	⬢	ELEVATOR LANDING
⌘	MBL	MAIN BRACE LEVEL
⌘	WP.	WORK POINT
⌘	VBS	VERTICAL BUCKSTAY

REFERENCE DRAWINGS

DESCRIPTION	DRAWING NO.
GEN. ARRGT. OF BOILER SECTIONAL PLAN SEC-AA	0-00-022-77519
GEN. ARRGT. OF BOILER SECTIONAL PLAN SEC-BB	0-00-022-77520
GEN. ARRGT. OF BOILER SECTIONAL PLAN SEC-CC	0-00-022-77521
GEN. ARRGT. OF BOILER SECTIONAL PLAN SEC-DD	0-00-022-77522
GEN. ARRGT. OF BOILER FRONT ELEVATION SEC-FF	0-00-022-77523
GEN. ARRGT. OF BOILER FRONT ELEVATION SEC-GG	0-00-022-77525

CUSTOMER DRS NO. 9585-001-102-PVM-B-010

CUSTOMER PATRATU VIDYUT UTPADAN NIGAM LIMITED
(A Subsidiary of NTPC Ltd in Joint Venture with Jharkand Biji Viram Nigam Ltd)

PROJECT PATRATU SUPER THERMAL POWER STATION
EXPANSION PHASE-1 3X800 MW-UNIT NO: 01.02 & 03.

CONTRACTOR BHARAT HEAVY ELECTRICALS LIMITED
BOILER PLANT UNIT, TRICHIRAPALLI-620014

DRG TITLE: GEN. ARRGT OF BOILER-SIDE ELEVATION-"E-E"

OSGM

GE POWER INC.,USA

ALL DIMENSIONS IN MILLIMETERS

PROJECTION SCALE 1:175

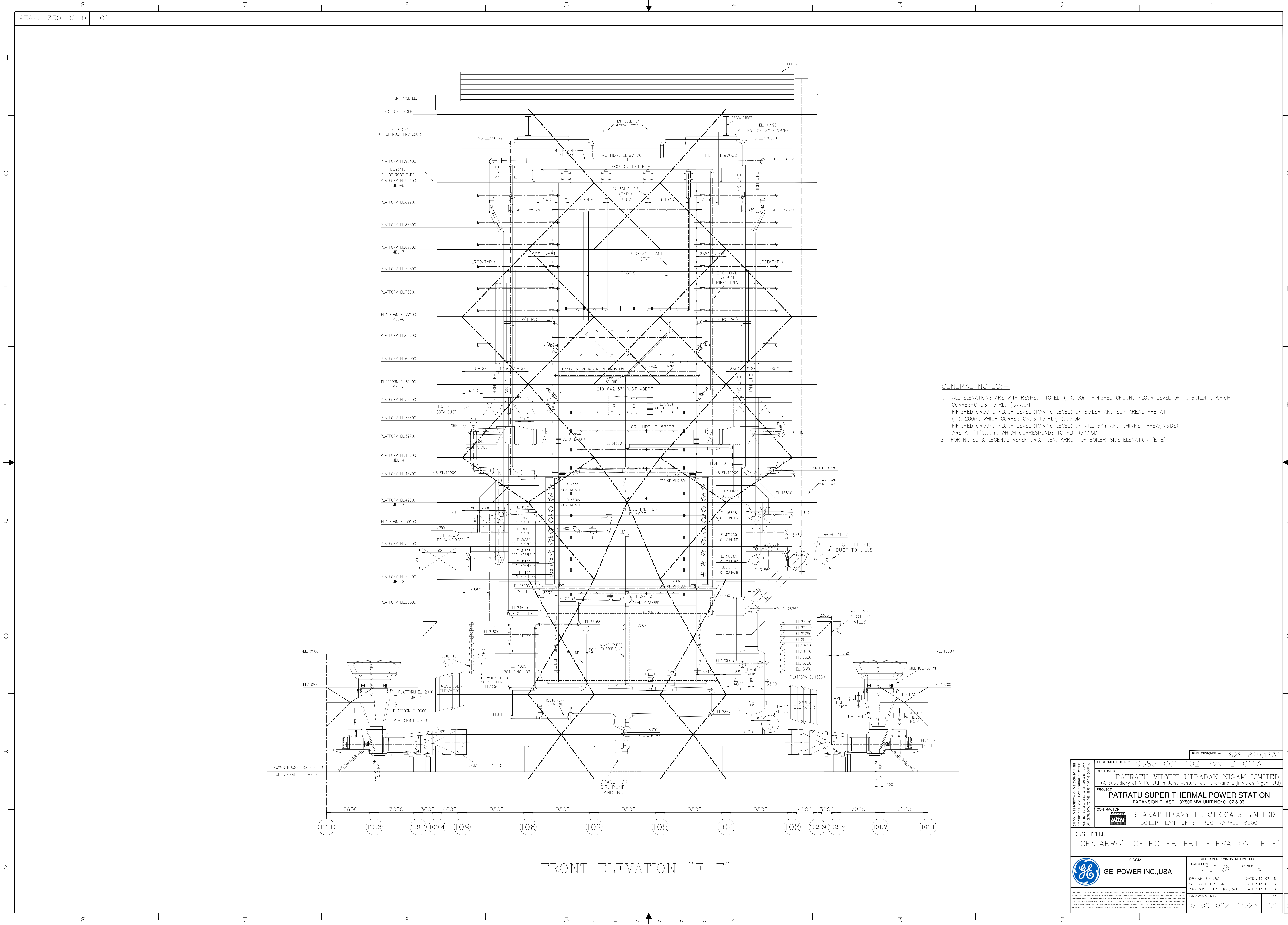
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CHECKED BY : KR DATE : 06-07-18


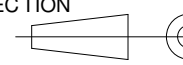
APPROVED BY : KRISRAJ DATE : 06-07-18



DRAWING NO. 0-00-022-77518

REV. 00



- GENERAL NOTES:-
- ALL ELEVATIONS ARE WITH RESPECT TO EL. (+)0.00m, FINISHED GROUND FLOOR LEVEL OF TG BUILDING WHICH CORRESPONDS TO RL(+).377.5M.
FINISHED GROUND FLOOR LEVEL (PAVING LEVEL) OF BOILER AND ESP AREAS ARE AT (-)0.200m, WHICH CORRESPONDS TO RL(+).377.3M.
FINISHED GROUND FLOOR LEVEL (PAVING LEVEL) OF MILL BAY AND CHIMNEY AREA(INSIDE) ARE AT (+)0.00m, WHICH CORRESPONDS TO RL(+).377.5M.
 - FOR NOTES & LEGENDS REFER DRG. "GEN. ARR'GT OF BOILER-SIDE ELEVATION-E-E"

<small>ALL INFORMATION ON THIS DRAWING IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT SHALL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.</small>	CUSTOMER DRS NO. 9585-001-102-PVM-B-011A		
	CUSTOMER PATRATU VIDYUT UTPADAN NIGAM LIMITED (A Subsidiary of NTPC Ltd in Joint Venture with Jharkand Biji Vitran Nigam Ltd)		
	PROJECT PATRATU SUPER THERMAL POWER STATION EXPANSION PHASE-1 3X800 MW-UNIT NO: 01.02 & 03.		
	CONTRACTOR BHARAT HEAVY ELECTRICALS LIMITED BOILER PLANT UNIT, TRICHIRAPALLI-620014		
	DRG TITLE: GEN.ARR'GT OF BOILER-FRT. ELEVATION-F-F		
 GE POWER INC.,USA		ALL DIMENSIONS IN MILLIMETERS PROJECTION  SCALE 1:175	
DRAWN BY : RS CHECKED BY : KR APPROVED BY : KRISHNAJ		DATE : 12-07-18 DATE : 13-07-18 DATE : 13-07-18	
DRAWING NO. 0-00-022-77523		REV. 00	

CUSTOMER DRG NO: 9585-001-102-PVM-B-012		BHEL, CUSTOMER No: 1828,1829,1830	
CUSTOMER: PATRATU VIDYUT UTPADAN NIGAM LIMITED (A Subsidiary of NTPC Ltd in Joint Venture with Jharkand Bijli Vitran Nigam Ltd)			
PROJECT			
PATRATU SUPER THERMAL POWER STATION EXPANSION PHASE-1 3X800 MW UNIT NO: 01.02 & 03.			
CONTRACTOR		BHARAT HEAVY ELECTRICALS LIMITED	
		BOILER PLANT TITLE: TIRUCHIRAPALLI-620014	
DRG TITLE:			
GEN.DRG TITLE: GEN.PART. OF BOILER-FRT. ELEVATION-"G-G"			
QSGM			
		GE POWER INC.,USA	
ALL DIMENSIONS IN MILLIMETERS SCALE: 1:175 DRAWN BY: RS DATE: 12-07-18 CHECKED BY: KR DATE: 13-07-18 APPROVED BY: K.RISRAJ DATE: 13-07-18			
DRAWING NO. 00-00-022-77525 REV. 00			