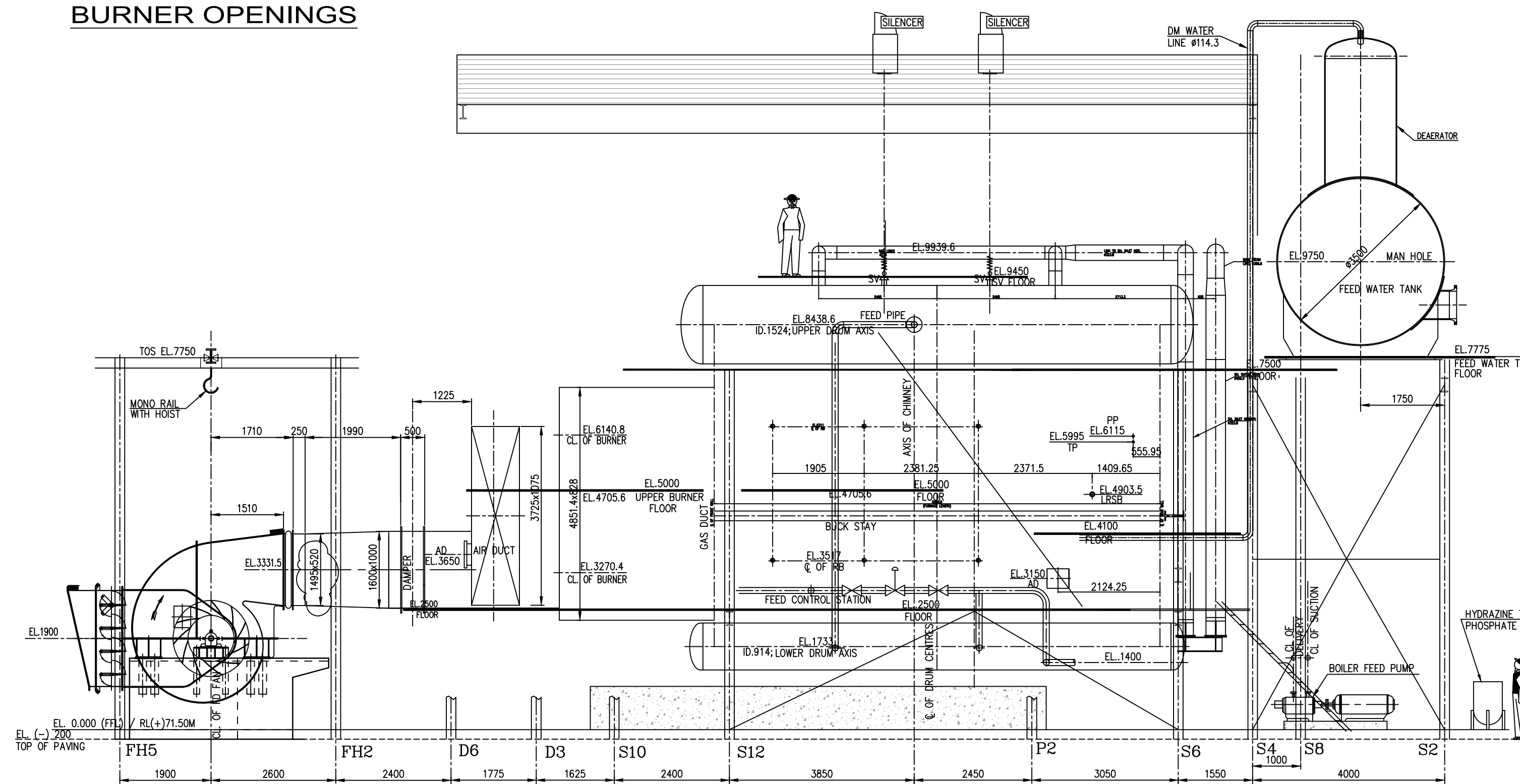
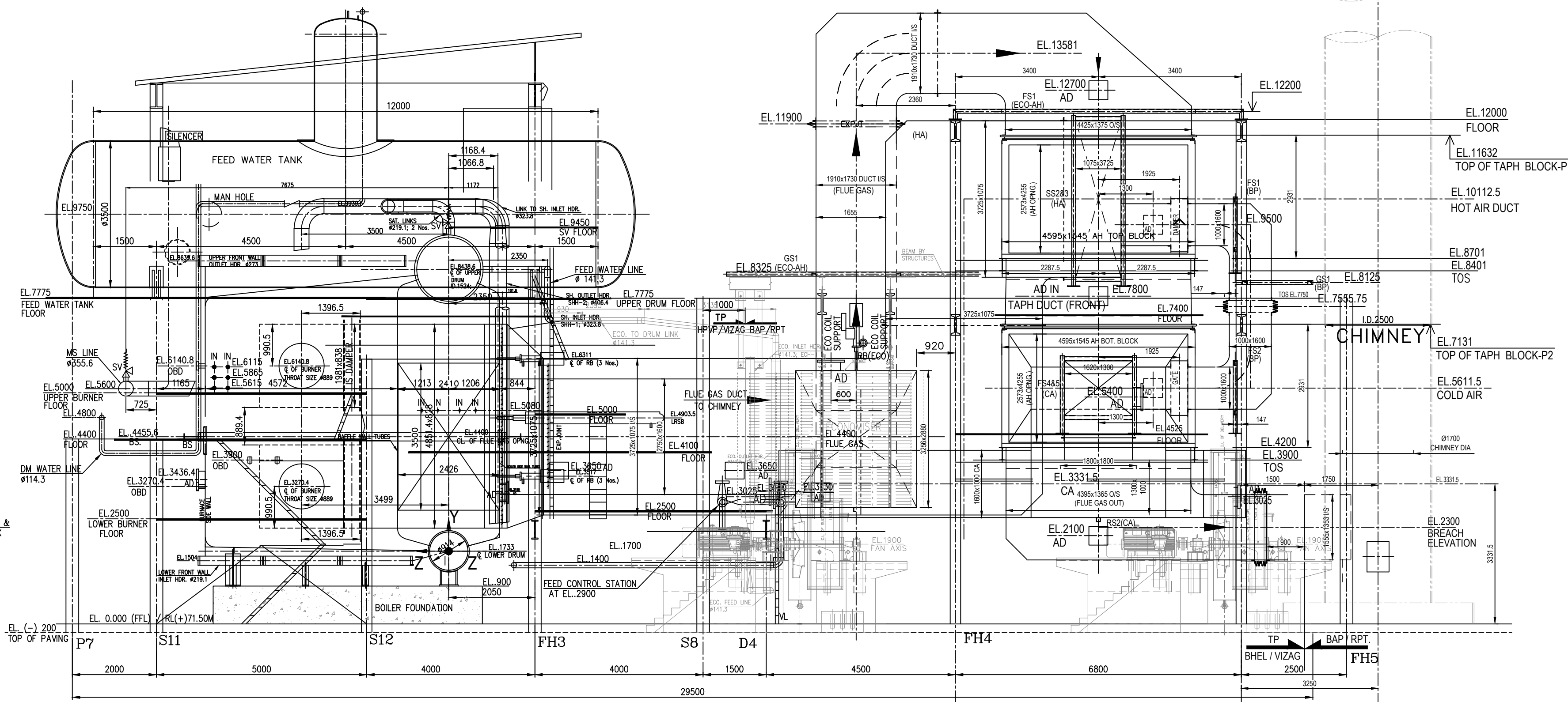


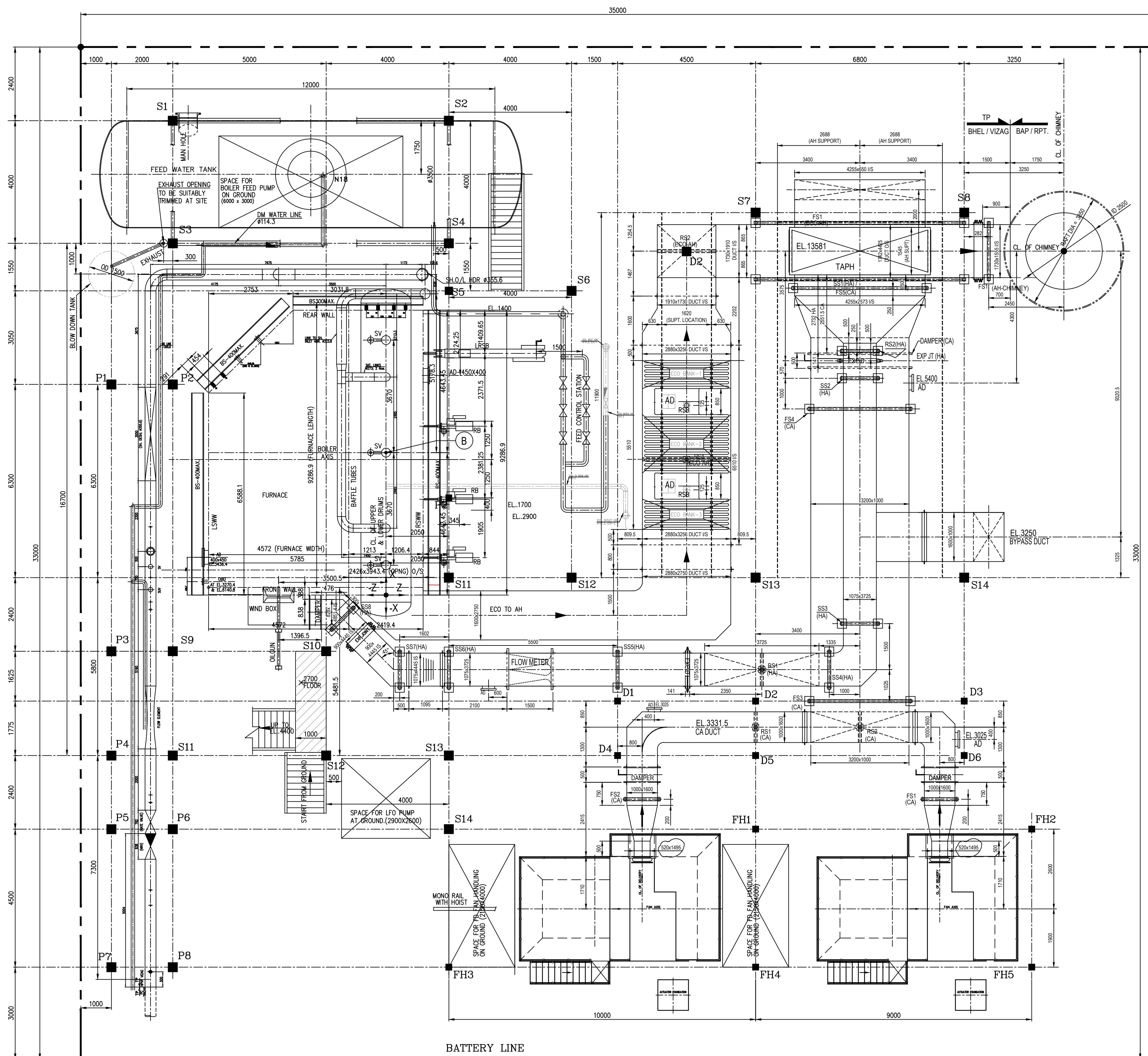
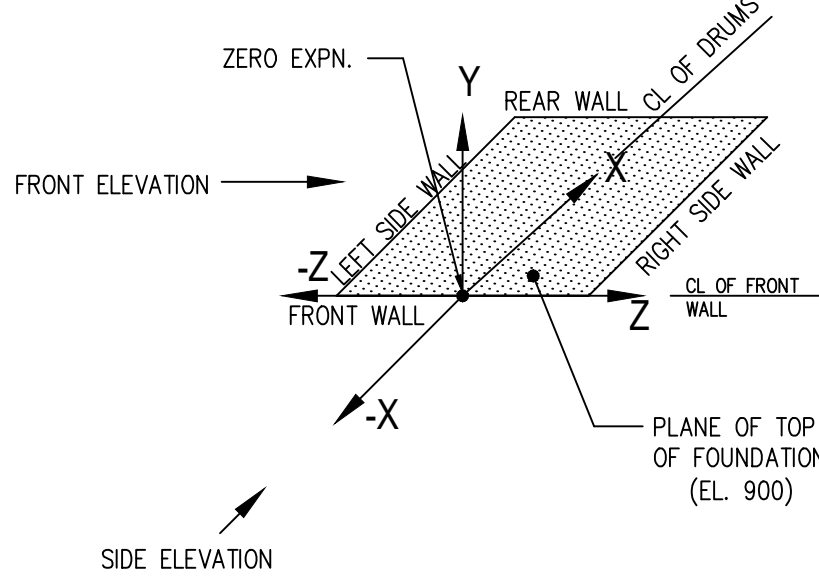
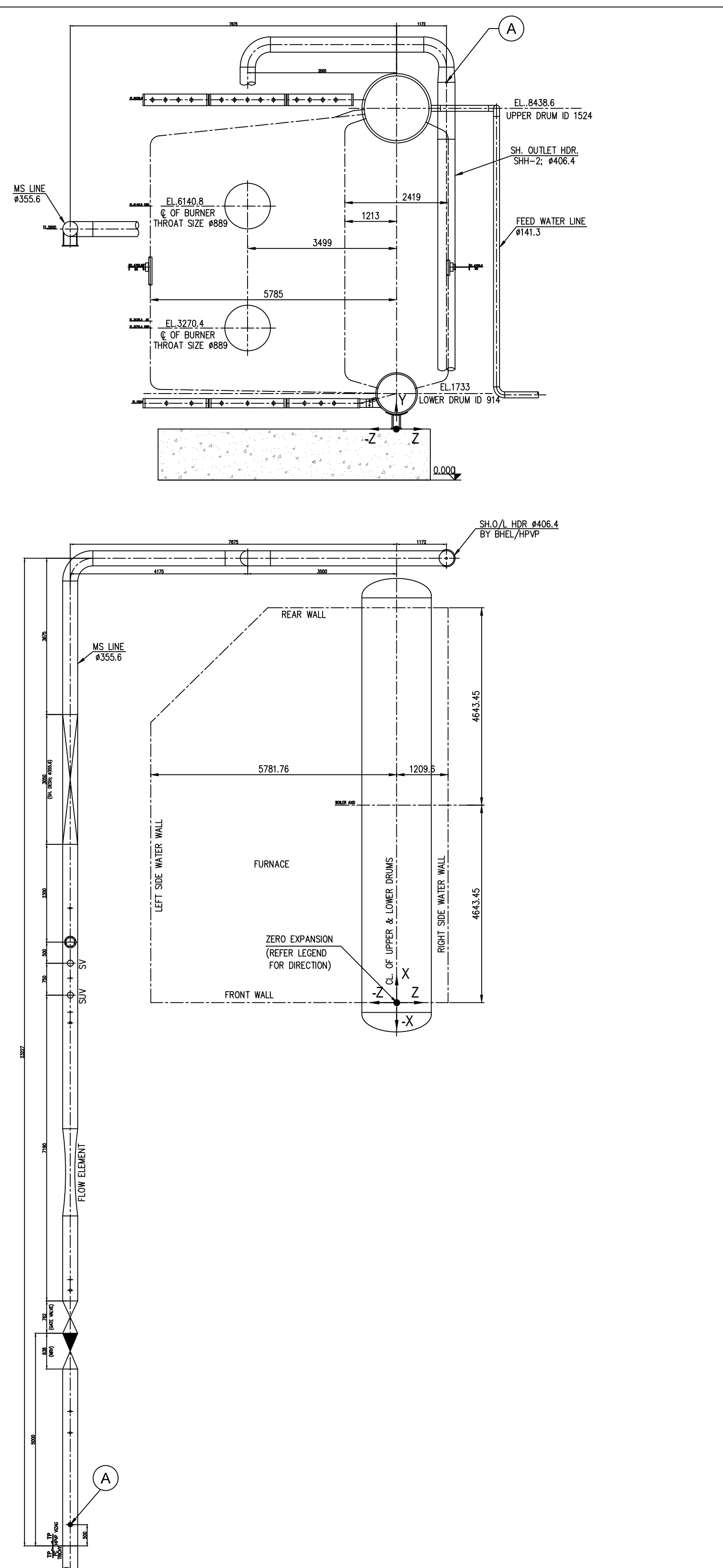
BURNER OPENINGS



VIEW - AA



SIDE ELEVATION



PLAN

LEGEND	
	OBD OBSERVATION DOOR
	AD ACCESS DOOR
	LRSB LONG RETRACTABLE SOOT BLOWER
	RB ROTARY SOOT BLOWER
	IN INSTRUMENT INSERT
	TP TERMINAL POINT (BHFL/HPVP-VIZAG)
TOC	TOP OF COLUMN
LSWW	LEFT SIDE WATER WALL
RSWW	RIGHT SIDE WATER WALL

REFERENCE DRAWINGS:

01. PLOT PLAN : PE-DG-529-100-M001.
02. GA OF FD FAN FOR AUX. BOILER: DRG.NO. 1-00-098-29604.
03. GA OF AUX. BOILER FOR CHIMNEY: DRG.NO. 0-82-100-80474.

NOTES

01. ± 0.00 OF MAIN PLANT AREA CORRESPONDS TO RL(+)71.50M.
TOP OF PAVING FOR BOILER / ESP AREA EL. (-) 0.20M
02. ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.

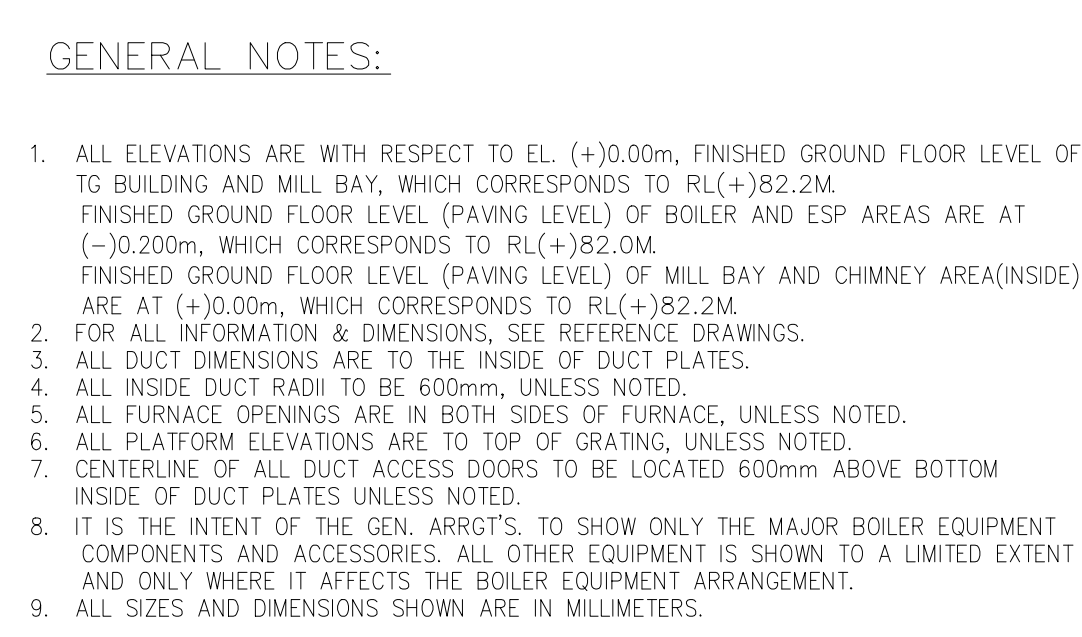
BOILER PARAMETERS

MAIN STEAM

STEAM FLOW AT SUPERHEATER OUTLET : 100 TPH
PRESSURE AT SUPERHEATER OUTLET : 19 kg/sq.cm(g)
TEMPERATURE AT SUPERHEATER OUTLET : 315° C

FEED WATER

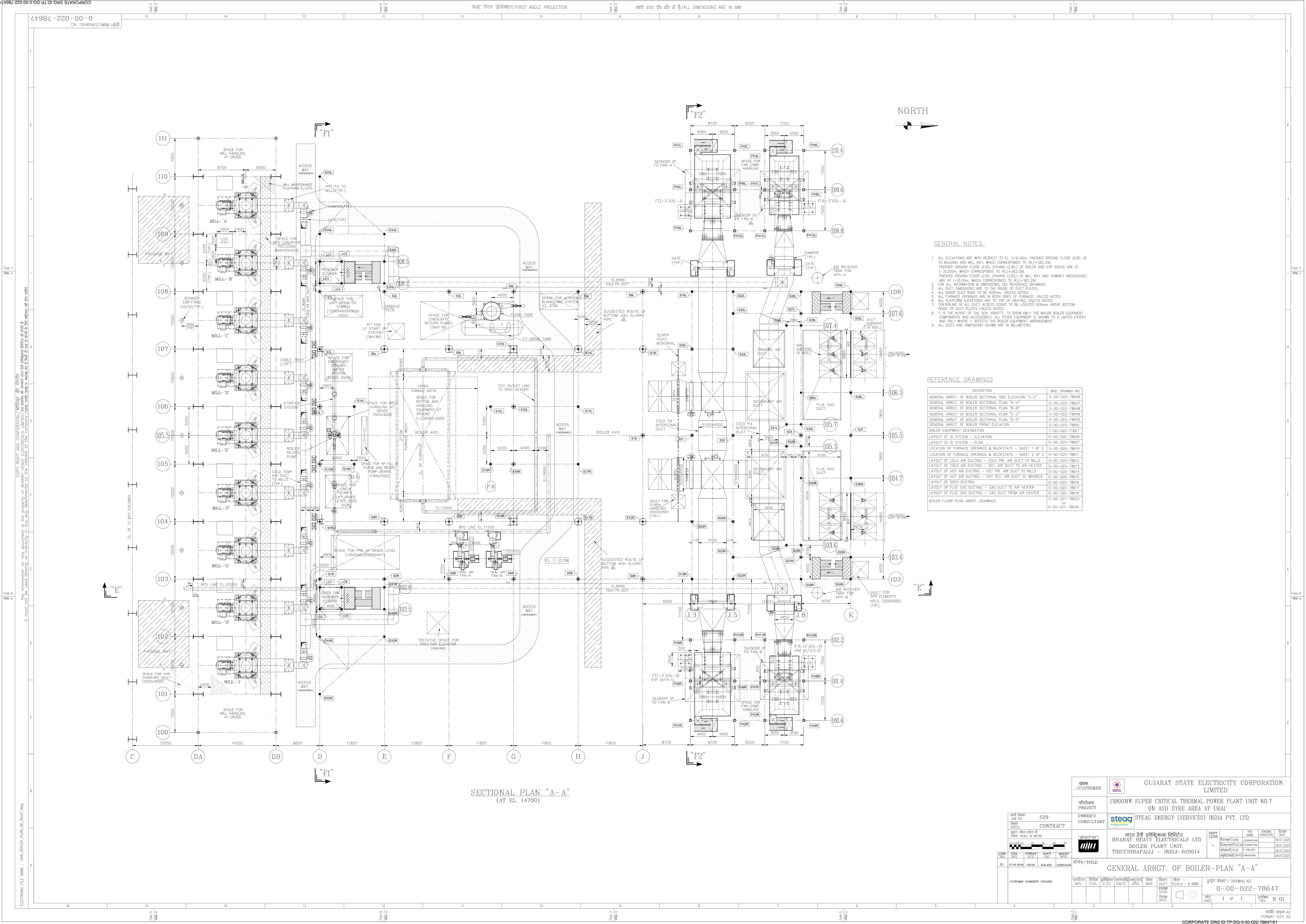
FEED WATER TEMPERATURE : 105° C



BOILER PARAMETERS (BMCR)	
STEAM FLOW AT SUPER HEATER OUTLET	~ 2530 t/hr
PRESSURE AT SUPER HEATER OUTLET	~ 278 kg./sq.cm(G)
TEMPERATURE AT SUPERHEATER OUTLET	~ 603 °C
STEAM FLOW AT REHEATER OUTLET	~ 1977.2 t/hr
TEMPERATURE AT REHEATER INLET	~ 372.0 °C
PRESSURE AT REHEATER OUTLET	~ 61.38 kg./sq.cm(G)
TEMPERATURE AT REHEATER OUTLET	~ 603 °C
FEED WATER INLET TEMPERATURE	~ 308.1 °C
DESCRIPTION OF UNIT	
800 MW ONCE THROUGH SUPERCRITICAL, HAVING TWO PASS, SPIRAL WATER WALL TUBE, TOP SUPPORTED, SINGLE REHEAT, TANGENTIAL CORNER FIRING FURNACE WITH DIRECT PURVEYED 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.	
※	LR5B LOW RETRACTABLE SOOT BLOWER
※	LR5B MODIFIED LOW RETRACTABLE SOOT BLOWER
※	LR5B FUTURE LOW RETRACTABLE SOOT BLOWER
⊕	WB: WALL BLOWER
⊕	WB: MODIFIED WALL BLOWER
※	WB: MIRRORED WALL BLOWER
⊕	WB: FUTURE WALL BLOWER
⊕	TP: TEMPERATURE PROBE
⊕	A1-1 ACCESS DOOR IN TUBE WALL-500X500
⊕	A2-2 SCAFFOLD DOOR IN FURNACE UPPER SIDE WALL-813X1397
⊕	A3-3 WATER COOLED ACCESS DOOR IN FURNACE LOWER SIDE WALL-610X762
⊕	A4-4 ACCESS DOOR IN ENCLOSURE-610X610
⊕	A5-5 MAINTENANCE ACCESS DOOR IN PENTHOUSE-900X1800
⊕	⊕ HEAT REMOVAL DOOR IN PENTHOUSE-2PT-810X610
⊕	⊕ OBSERVATION DOOR - 90X160
⊕	ASLD ACCESSORY STEAM LEAK DETECTION CHANNEL
※	FC FURNACE GUIDE
MBL	MAIN BRACE LEVEL
⊕	B3 BUCK STAY
VBS	VERTICAL BUCKSTAY
◆	IN INSTRUMENT INSERTS
⊕	ELEVATOR LANDING
⊕	SIGHT GLASS

कार्य संख्या- JOB NO.	529
स्थिति STATUS	CONTRACT
मुद्रण स्केल मीटर में PRINT SCALE IN METRE	

CORPORATE DRG ID: TP-DG-0-00-022-78646/01



GENERAL NOTES:

1. ALL ELEVATIONS ARE WITH RESPECT TO EL. (+)0.00m FINISHED GROUND FLOOR LEVEL OF TO BUILDING AND MILL BAY, WHICH CORRESPONDS TO RL(+182.2M).
2. FINISHED FLOOR LEVEL (PAVING LEVEL) OF MILL BAY AND CHIMNEY AREA(INSIDE) ARE AT (+)0.00m, WHICH CORRESPONDS TO RL(+182.2M).
3. FOR ALL INFORMATION & DIMENSIONS, SEE REFERENCE DRAWINGS.
4. ALL DUCT DIMENSIONS ARE TO THE INSIDE OF DUCT PLATES.
5. ALL INSIDE DUCT RADI TO BE 600mm, UNLESS NOTED.
6. ALL FURNACE OPENINGS ARE IN BOTH SIDES OF FURNACE, UNLESS NOTED.
7. ALL PLATFORM ELEVATIONS ARE TO TOP OF GRATING, UNLESS NOTED.
8. CENTRELINE OF ALL DUCT ACCESS DOORS TO BE LOCATED 600mm ABOVE BOTTOM INSIDE OF DUCT PLATES UNLESS NOTED.
9. IT IS THE INTENT OF THE GEN. ARRGTS. 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.
10. ALL SIZES AND DIMENSIONS SHOWN ARE IN MILLIMETERS.

REFERENCE DRAWINGS

DESCRIPTION	BHEL DRAWING NO.
GENERAL ARRGT. OF BOILER SECTIONAL 'SIDE ELEVATION "E-E"	0-00-022-78646
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "A-A"	0-00-022-78647
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "B-B"	0-00-022-78648
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "C-C"	0-00-022-78649
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "D-D"	0-00-022-78650
GENERAL ARRGT. OF BOILER FRONT ELEVATION	0-00-022-78651
BOILER EQUIPMENT DESIGNATION	1-00-020-71667
LAYOUT OF ID SYSTEM - ELEVATION	0-00-020-78606
LAYOUT OF ID SYSTEM - PLAN	0-00-020-78607
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 1 OF 2	0-00-020-78610
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 2 OF 2	0-00-020-78611
LAYOUT OF COLD AIR DUCTING - COLD PRI. AIR DUCT TO MILLS	0-00-020-78612
LAYOUT OF COLD AIR DUCTING - SEC. AIR DUCT TO AIR HEATER	0-00-020-78613
LAYOUT OF HOT AIR DUCTING - HOT PRI. AIR DUCT TO MILLS	0-00-020-78614
LAYOUT OF HOT AIR DUCTING - HOT SEC. AIR DUCT TO WINDBOX	0-00-020-78615
LAYOUT OF SOFA DUCTING	0-00-020-78616
LAYOUT OF FLUE GAS DUCTING - GAS DUCT TO AIR HEATER	0-00-020-78617
LAYOUT OF FLUE GAS DUCTING - GAS DUCT FROM AIR HEATER	0-00-020-78618
LAYOUT OF FLUE GAS DUCTING - GAS DUCT TO AIR HEATER	0-00-021-78620
BOILER FLOOR PLAN ARRGT. DRAWINGS	0-00-021-78645

SECTIONAL PLAN "A-A"
(AT EL. 14700)

GUJARAT STATE ELECTRICITY CORPORATION LIMITED

18X800MW SUPER CRITICAL THERMAL POWER PLANT UNIT NO.7 ON ASH DYKE AREA AT UKAI

OWNER'S CONSULTANT

STEAG ENERGY (SERVICES) INDIA PVT. LTD.

529

CONTRACT

PRINT SCALE IN METRE

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BHARAT HEAVY ELECTRICALS LTD

BOILER PLANT UNIT, TIRUCHIRAPALLI - INDIA-620014

01/07/2020

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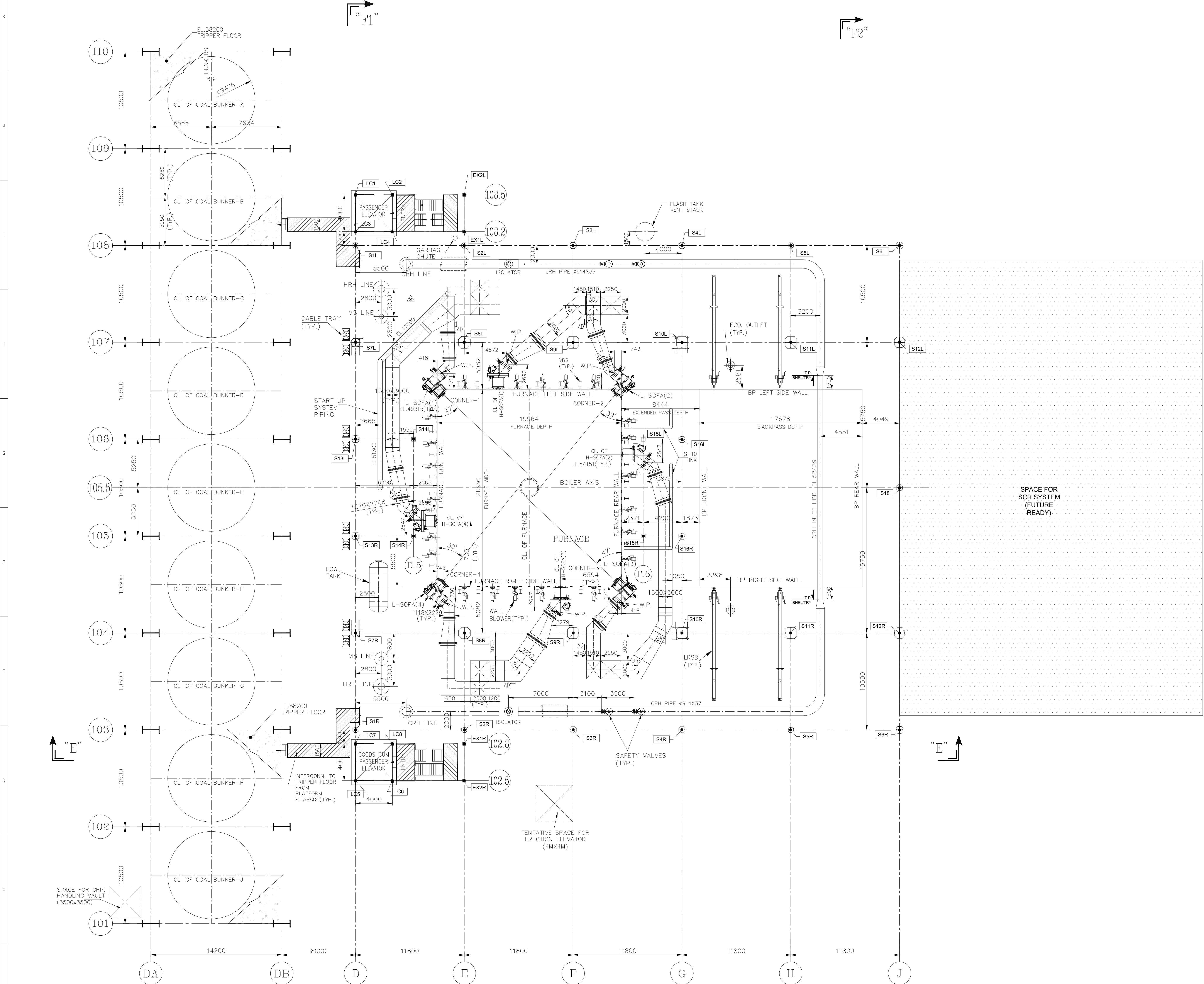
01/07/2020

GENERAL ARRGT. OF BOILER-PLAN "A-A"

0-00-022-78647

1 OF 1

R 01



ALL ELEVATIONS ARE WITH RESPECT TO RL(+0.00) FINISHED GROUND FLOOR LEVEL OF THE BUILDING. ALL DIMENSIONS ARE IN MILLIMETERS AND TO (+/-) 82.2 CM.

FINISHED GROUND FLOOR LEVEL (PAVING LEVEL) OF BOLLER AND ESP ARE AT (-) -0.20m, WHICH CORRESPONDS TO RL(+82.0 CM).

FINISHED GROUND FLOOR LEVEL (PAVING LEVEL) OF MILL BAR AND CHIMNEY AREA(INSIDE) IS AT (+) +0.00m WHICH CORRESPONDS TO RL(+82.2 CM).

FOR ALL INFORMATION & DIMENSIONS, SEE REFERENCE DRAWINGS.

ALL DIM. DIMENSIONS ARE TO THE INSIDE OF DUCT PLATES.

ALL INSIDE DUCT RADIUS TO BE MAINTAINED AS SHOWN.

ALL FLANGE OPENINGS ARE IN BOTH SIDES OF FLANGING, UNLESS NOTED.

ALL PLATFORM ELEVATIONS ARE TO TOP OF GRATING, UNLESS NOTED.

VERTICALITY OF ALL DUCTS TO BE LOCATED 600mm ABOVE BOTTOM

INSIDE OF DUCT PLATES UNLESS NOTED.

IT IS THE INTENT OF THE GEN. ARR'TS. TO SHOW ONLY THE MAJOR BOLTER EQUIPMENT COMPONENTS AND PARTS. OTHERS ARE NOT SHOWN BUT WILL BE SUPPLIED IN LIMITED EXTENT AND ONLY WHERE IT AFFECTS THE BOLTER EQUIPMENT ARRANGEMENT.

ALL SIZES AND DIMENSIONS SHOWN ARE IN MILLIMETERS.

DESCRIPTION	BHEL DRAWING NO.
GENERAL ARRGT. OF BOILER SECTIONAL SIDE ELEVATION "E-E"	0-00-022-76646
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "A-A"	0-00-022-76647
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "B-B"	0-00-022-76648
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "C-C"	0-00-022-76649
GENERAL ARRGT. OF BOILER SECTIONAL PLAN "D-D"	0-00-022-76650
GENERAL ARRGT. OF BOILER TOWER ELEVATION	0-00-022-76651
BOILER EQUIPMENT DESIGNATION	1-00-020-71667
LAYOUT OF ID SYSTEM - ELEVATION	0-00-020-76006
LAYOUT OF ID SYSTEM - PLAN	0-00-020-76007
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 1 OF 2	0-00-020-76610
LOCATION OF FURNACE OPENINGS & BUCKSTAYS - SHEET 2 OF 2	0-00-020-76611
LAYOUT OF COLD AIR DUCTING - COLD PR. AIR DUCT TO MILLS	0-00-020-76612
LAYOUT OF COLD AIR DUCTING - SEC. AIR DUCT TO AIR HEATER	0-00-020-76613
LAYOUT OF HOT AIR DUCTING - HOT PR. AIR DUCT TO MILLS	0-00-020-76614
LAYOUT OF HOT AIR DUCTING - HOT SEC. AIR DUCT TO WINDOX	0-00-020-76615
LAYOUT OF SOFA DUCTING	0-00-020-76616
LAYOUT OF FLUE GAS DUCTING - GAS DUCT TO AIR HEATER	0-00-020-76617
LAYOUT OF FLUE GAS DUCTING - GAS DUCT FROM AIR HEATER	0-00-020-76618
BOILER FLOOR PLAN ARRGT. DRAWINGS	0-00-021-76620
	0-00-021-76645

SECTIONAL PLAN "C-C"
(AT EL. 66400)

क्रम / CUSTOMER परियोजना PROJECT कार्या संख्या JOB NO. मिति DATE प्रिन्ट साइज PRINT SIZE IN METRE 		गुजरात स्टेट इलेक्ट्रिसिटी कॉर्पोरेशन LIMITED 1XB00MW SUPER CRITICAL THERMAL POWER PLANT UNIT NO.7 ON ASH DYKE AREA AT UKAI  STEAG ENERGY (SERVICES) INDIA PVT. LTD. भारत हेवी इलेक्ट्रिकल्स लिमिटेड BHARAT HEAVY ELECTRICALS LTD BOILER PLANT UNIT: TIRUCHIRAPALLI - INDIA-620014		DEPT CODE डिपार्टमेंट / DEPT. DEPARTMENT ऑफिस / OFFICE डिजाइनर / DESIGNER ड्राइंग रूम / DRAWING ROOM ड्राइंग नं. / DRAWING NO. 0-00-022-78649	
शीट नं. / SHEET NO. 01		ड्राइंग नं. / DRAWING NO. 0-00-022-78649		ड्राइंग रूम / DRAWING ROOM ड्राइंग नं. / DRAWING NO. 0-00-022-78649	
ग्राहक / CUSTOMER परियोजना PROJECT कार्या संख्या JOB NO. मिति DATE प्रिन्ट साइज PRINT SIZE IN METRE 		गुजरात स्टेट इलेक्ट्रिसिटी कॉर्पोरेशन LIMITED 1XB00MW SUPER CRITICAL THERMAL POWER PLANT UNIT NO.7 ON ASH DYKE AREA AT UKAI  STEAG ENERGY (SERVICES) INDIA PVT. LTD. भारत हेवी इलेक्ट्रिकल्स लिमिटेड BHARAT HEAVY ELECTRICALS LTD BOILER PLANT UNIT: TIRUCHIRAPALLI - INDIA-620014		DEPT CODE डिपार्टमेंट / DEPT. DEPARTMENT ऑफिस / OFFICE डिजाइनर / DESIGNER ड्राइंग रूम / DRAWING ROOM ड्राइंग नं. / DRAWING NO. 0-00-022-78649	
शीट नं. / SHEET NO. 01		ड्राइंग नं. / DRAWING NO. 0-00-022-78649		ड्राइंग रूम / DRAWING ROOM ड्राइंग नं. / DRAWING NO. 0-00-022-78649	

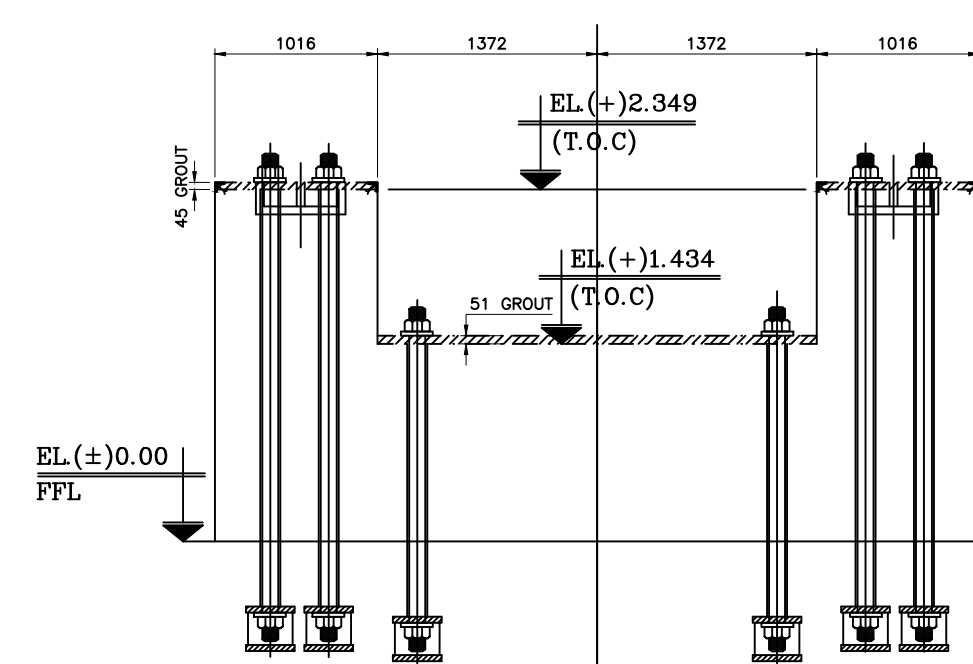


**1 X 800 MW Super Critical Thermal Power Plant
Unit No.7 on Ash Dyke Area at Ukai**



COMMENT RESOLUTION SHEET

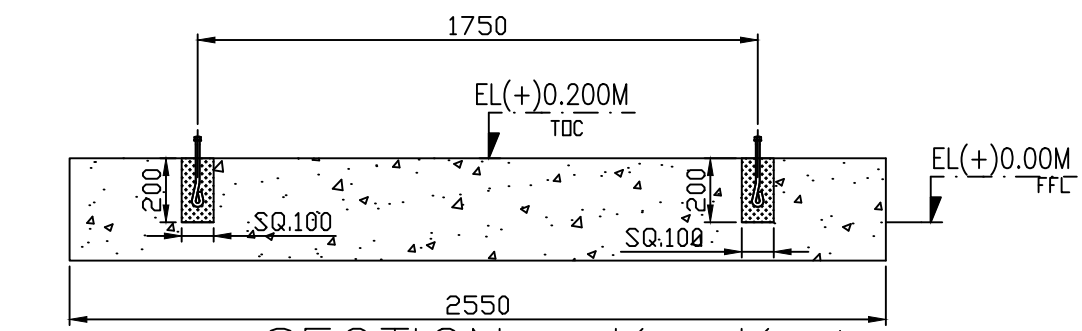
COMMENT RESOLUTION SHEET						
DESCRIPTION		FOUNDATION PLAN OF HP 1103 MILL - DYNAMIC CLASSIFIER (WITH PLANETARY GEAR BOX)				
BHEL DOCUMENT/DRAWING No.		0-00-610-87114				
GSECL/STEAG DOC NO.		HY-DG-0-00-610-87114				
Sl. No.	GSECL / STEAG Comments (Rev No. 00) DTN/Email Ref : Approval Category : - 2	BHEL's Clarification (Response / Resolution) on Rev. No. 00 BHEL Reference No. and Date :01.01.2026	GSECL / STEAG Comments/Approval (Rev No. 01) DTN/Email Ref : Approval Category : 2	BHEL's Clarification (Response / Resolution) on Rev. No. 01 BHEL Reference No. and Date :	Status (Open/Close)	Remarks (if Any)
1	Pl show staricase location for access to the top.	Removal ladder is supplied for accessing as maintenance tools.	Noted		CLOSED	
2	FOUNDATION NOTES:- 9. ALL ANCHOR BOLTS ARE TO BE SET IN SECTION "A-A", "B-B" AND "C-C" SLEEVES AND OTHER DEBRIS AND SEALED WATER. Pl check whether this (marked box) shall be "E-E" since there is no Section C-C noted.	Section C-C added.	Noted		CLOSED	
	GSECL					
3	Pl. extend section x-x to cover lube oil system	section X-X is inteded for motor. Lube oil skid is elevated concrete with 200mm height. Anchoring details for lube oil skid is already provided in Section J-J. hence extension is not required.	Why Lub Oil Skid section not required? The drawing shall cover each details.	Section K-K added.	OPEN	
4	Section G-G not shown in the drawing	Section G-G is removed as all the details are already in Scetion X-X.	Not Agreed. The section X-X & Section G-G is completely different. How the details of section G-G covered under section X-X ?	Section G-G added.	OPEN	
5	Pl. show section view of the foundation perpendicular to the section G-G	Details are already present in View-Q hence separate section view is not required.	Noted.		CLOSED	
6	Mention Drawing number	Updated	Noted		CLOSED	



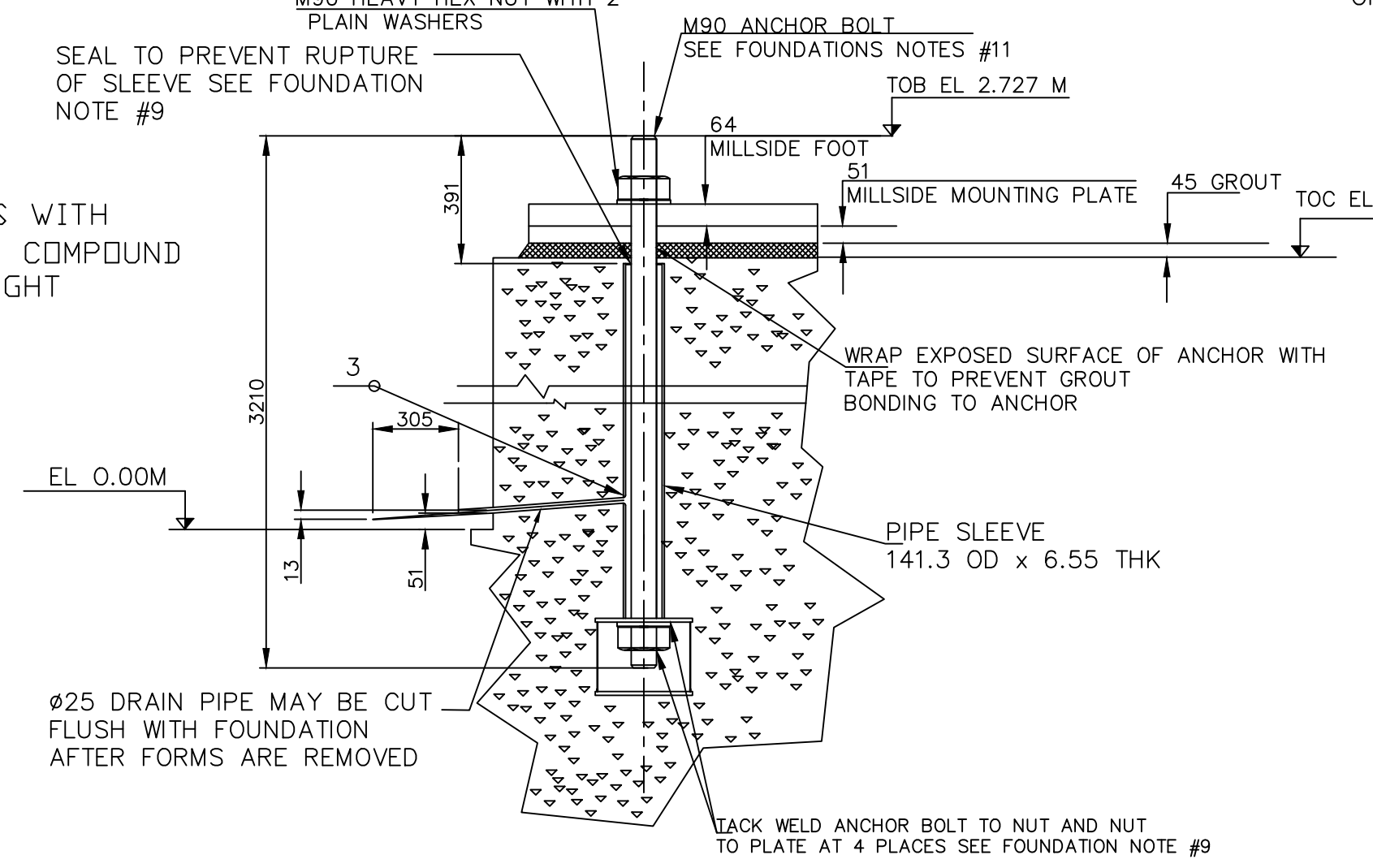
VIEW-Q

SECTION B-B (4 PLACES)

SECTION G-G



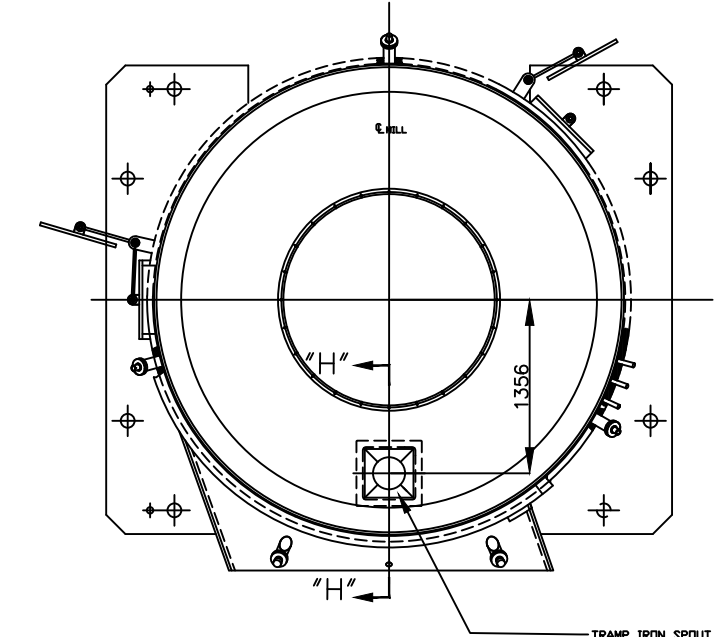
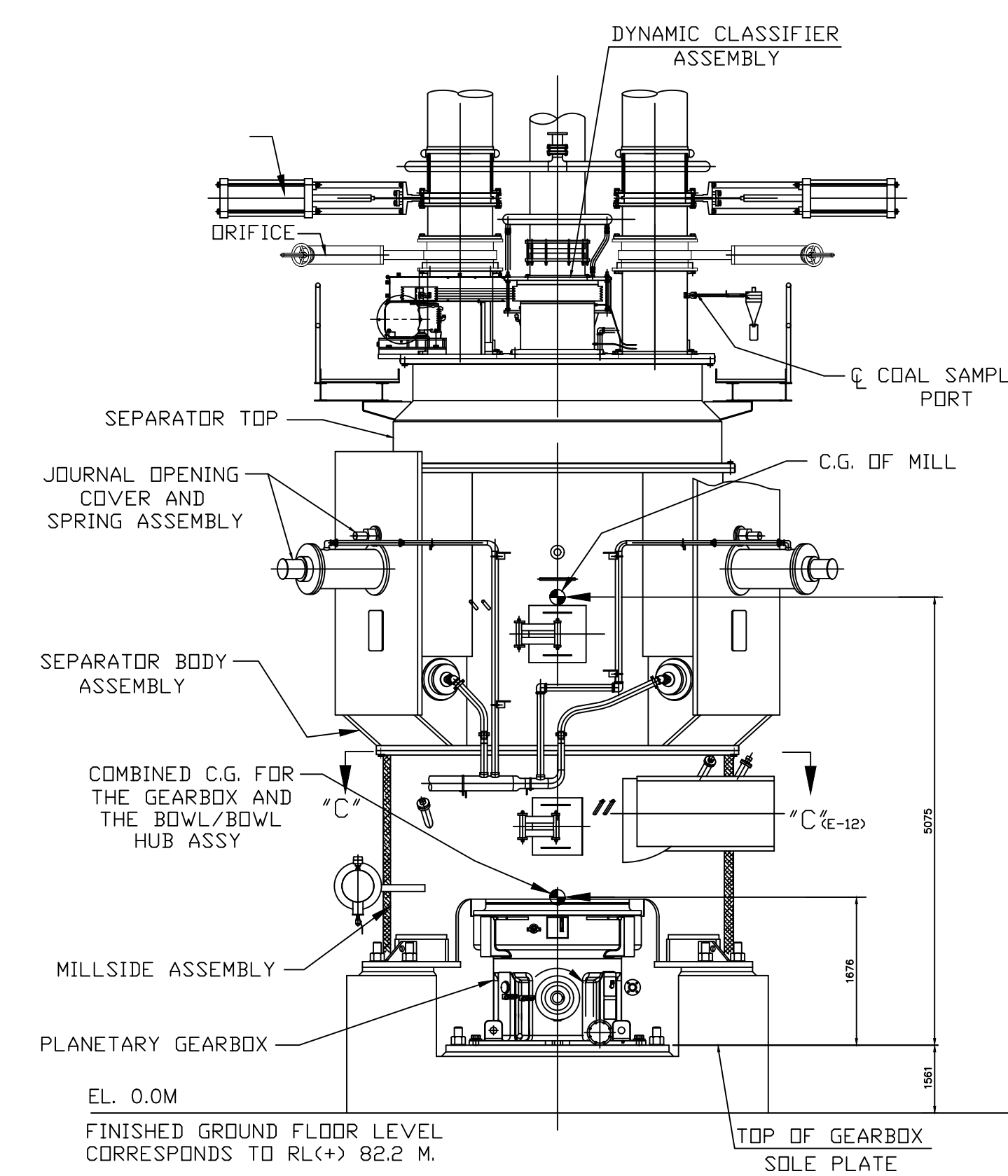
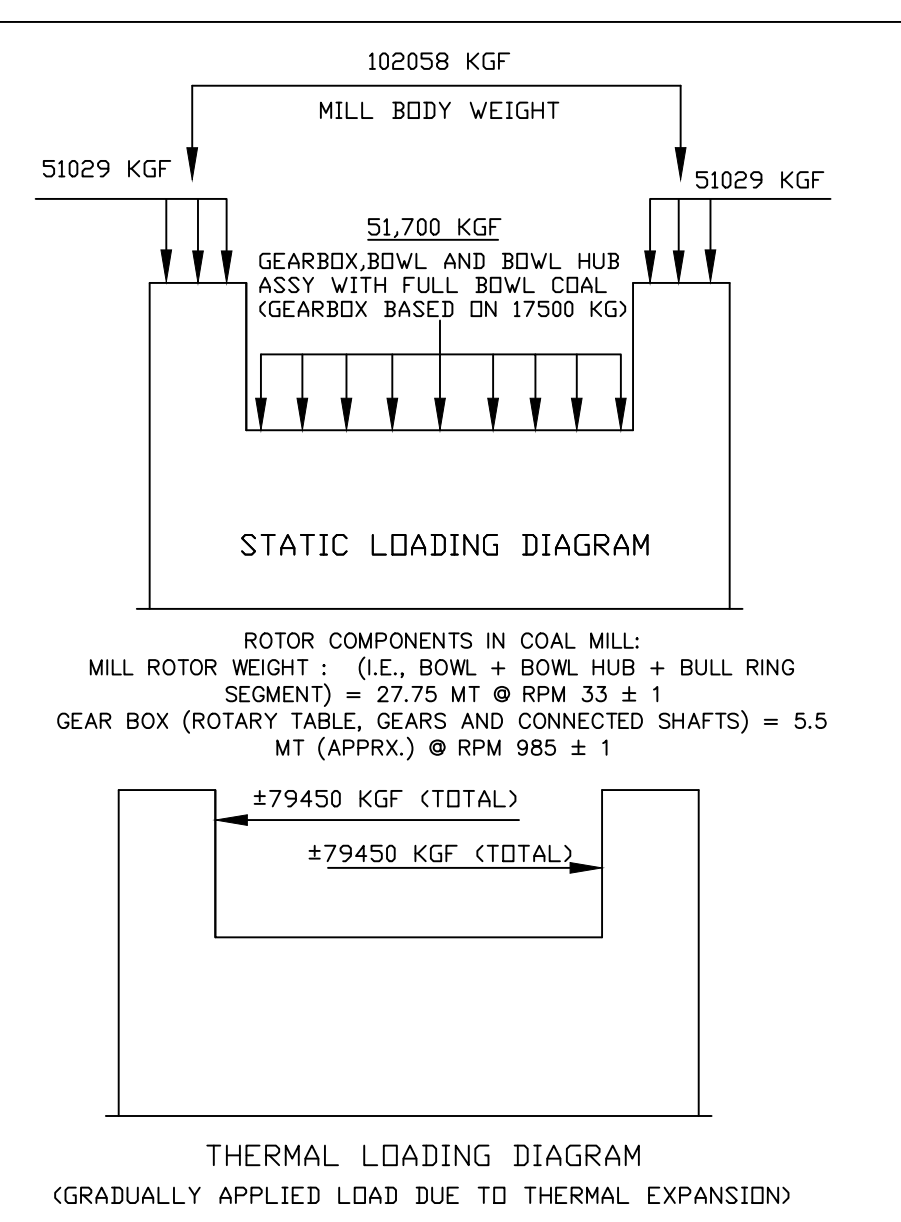
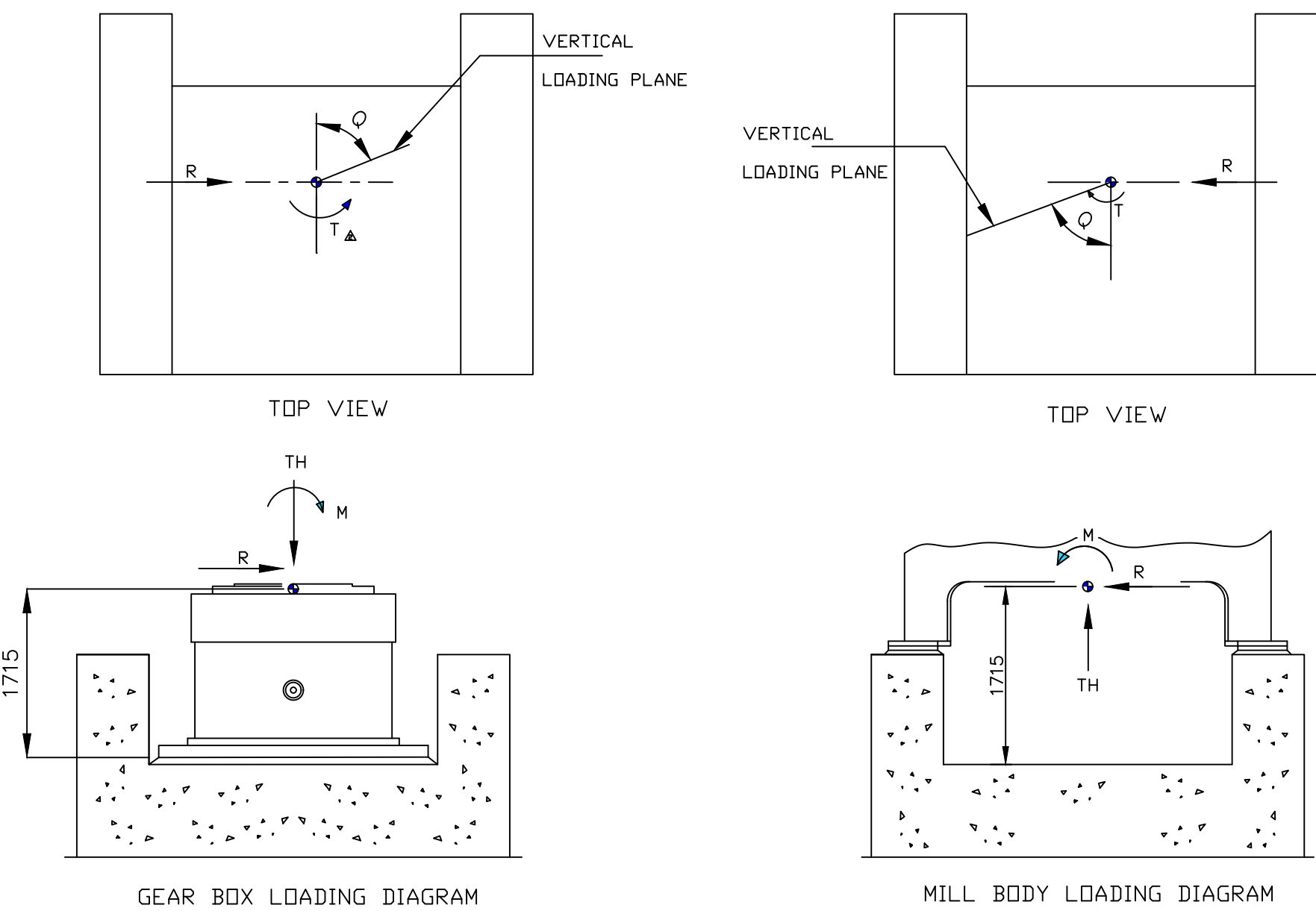
SECTION : K - K Δ



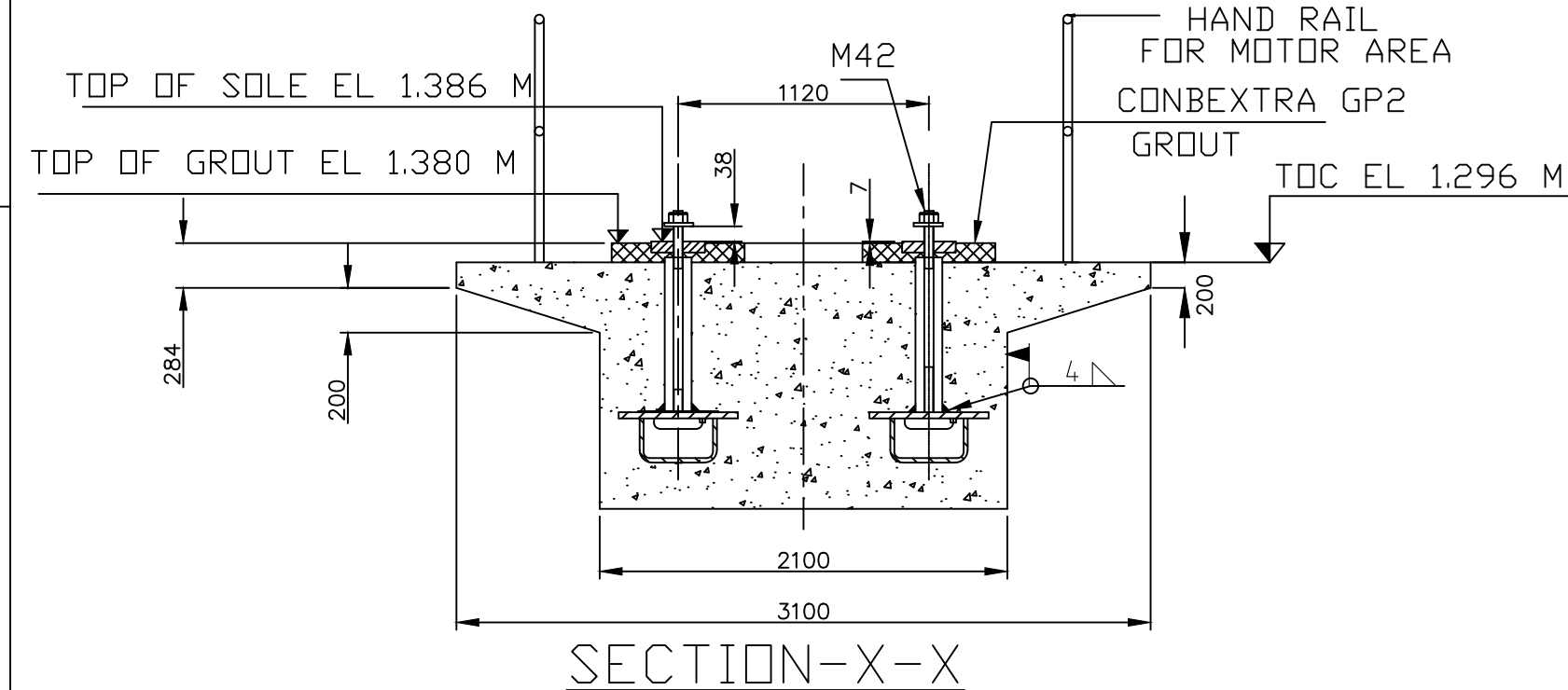
SECTION C-C (2 PLACES)

SECTION D-D (4 PLACES)

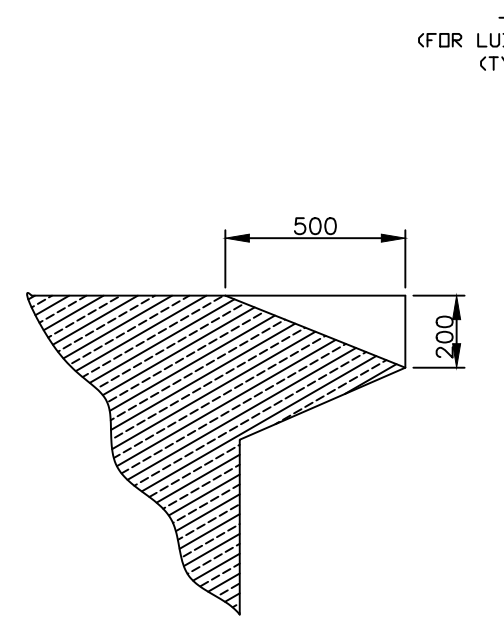
PLAN OF MOTOR FOUNDATION SHOWING
GROUT AND ELEVATION DETAILS



SECTION "H-H"



SECTION-X-X



SECTION-Y-Y
(DETAIL FOR CABLE ENTRY)

MAXIMUM DYNAMIC FOUNDATION LOADING (ACTUAL)	
MOMENT (M)	126738 KGM
THRUST (TH)	190680 KGF
RADIAL (R)	38590 KGF
TORQUE (T)	97380 KGM
ANGLE (Q)	0° THRU 360° RANDOM DIRECTION SEE NOTE #2
TORQUE (TM)	PEAK TORQUE

LEGEND:

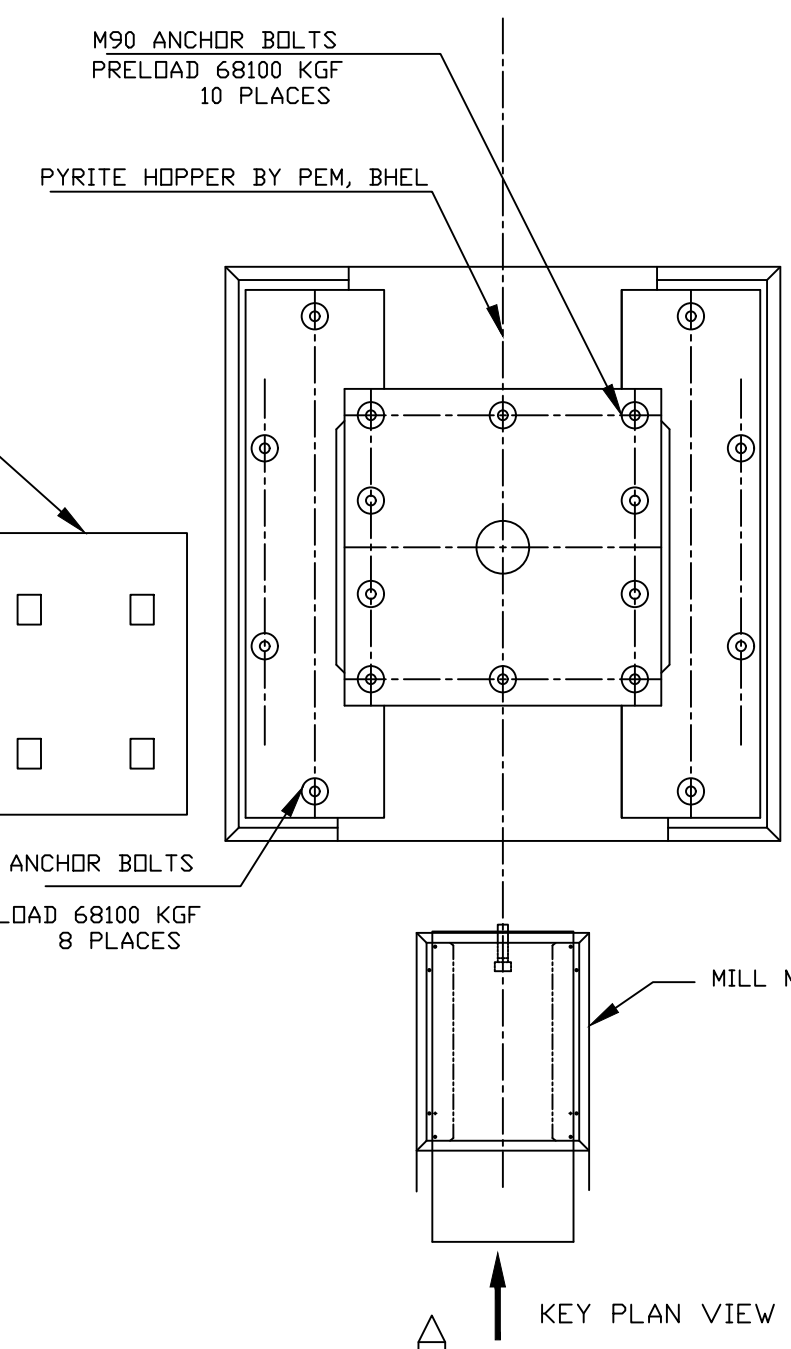
NOTES

1. ALL DYNAMIC LOADS ARE IN ADDITION TO THE STATIC LOADS
2. THE MOMENT (M) AND RADIAL FORCE (R) COULD OCCUR IN ANY PLANE
I.E THE ANGLE 'Q' RANGES FROM 0° TO 360° PER THE DIAG

3. THE LOADS TABULATED IN THIS DRAWING ARE MAXIMUM EXPECTED LOADS. THE LOADS WILL VARY DURING OPERATION FROM ZERO TO THE MAXIMUM LISTED. THE DIRECTION AND MAGNITUDE OF THE MOMENT AND RADIAL LOADS COULD OCCUR IN ANY DIRECTION (SEE NOTE 2). THE FOUNDATION DESIGNER IS TO DESIGN THE FOUNDATION TO HANDLE THESE LOADS. THE DYNAMIC LOADS TABULATED CONSIST OF A COMBINATION OF CONTINUOUS AND IMPACT LOADS, BUT NO IMPACT FACTOR HAS BEEN APPLIED TO THESE LOADS.

4. THE CONTINUOUS DYNAMIC MOMENT IS ON THE ORDER OF 50% OF THE VALUE TABULATED. THE MOMENT VALUE TABULATED INCLUDES BOTH THE NORMAL GRINDING MOMENT AND THE IMPACT MOMENT DUE TO GRINDING TRAMP MATERIAL (NON-COAL MATERIAL, ROCK, IRON, ETC)

TUBE OIL UNIT
 APPROX WEIGHT
 0.20 LBS



KEY PLAN VIEW

MACHINE OPERATING FREQUENCIES		
MOTOR SPEED	RPM	985
GEARBOX INPUT SPEED	RPM	985
GEARBOX OUTPUT SPEED	RPM	33
GRINDING BOWL SPEED	RPM	33
NO. OF GRINDING ROLLS	NO.	3
DYN CLASSIFIER MOTOR	RPM	600—1800
REDUCER INPUT	RPM	600—1800
REDUCER OUTPUT SPEED	RPM	80—240
DYN CLASSIFIER ROTOR	RPM	32—96

REFERENCE DRAWINGS:
1. GENERAL ARRANGEMENT OF
BOILER-SIDE ELEVATION-E-E DRAWING
No: 0-00-022-78646

BOILER PLAN SECTION DRAWING NO. 1
0-00-022-78647.

2. GENERAL ARRANGEMENT DRAWING OF
HP-1103 MILL DRG. NO. :-
HY-DG-0-00-620-87146.

3. PULVERISER DATA SHEET -
BA-DS-UKAII-00.

4. MOTOR OGA DRAWING-
BP-DG-529-206-001

MILL DATA

1. MILL MODEL : HP 1103 -DYNAMIC CLASSIFIER
2. MOTOR SPEED : 985 RPM
3. SPEED OF PULVERIZER : 35 ± 1 RPM
4. TOTAL WT. OF MILL (EXCLUDING MOTOR) : 150 TONNES.
5. TYPE OF LOAD : MODERATE SHOCK LOAD.

MOTOR DATA:-

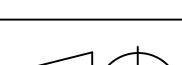
SUPPLIER : B H E L - BHOPAL
RATING : 807 KW
SPEED : ~985 RPM
SYN. SPEED : 1000 RPM
FULL LOAD AMP STATOR : REF. MOTOR DATA SHEET
VOLTAGE 3 PHASE 50 Hz : REF. MOTOR DATA SHEET
APPROX. WEIGHT OF MOTOR : 7550 Kgs
APPROX. WEIGHT OF ROTOR : 1700 Kgs
GD² OF ROTOR : 288 Kgm²
MAXIMUM FOUNDATION LOAD : 112 kN- UPWARDS
186 kN- DOWNWARDS
DIRECTION OF ROTATION : CLOCKWISE
(BI-DIRECTIONAL)

ग्राहक /CUSTOMER		GUJARAT STATE ELECTRICITY CORPORATION LIMITED
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CONTRACT COPY

THE FOLLOWING CONDITIONS APPLY
EXCEPT OTHERWISE STATED.

1. REF. TO HY0230261 FOR UNSPECIFIED TOLERANCES.
2. CHAMFER M/CD. SHARP EDGES 1.2 TO 1.0 AT 45°
3. INTERNAL M/CD. CORNER RADII 1 TO 0.7
4. THE SURFACE ROUGHNESS WHERE-EVER NOT SHOWN SHALL BE TAKEN FROM THE SURFACE ROUGHNESS SHOWN OUT SIDE THE BACK SLASH GIVEN OR THE TOP MOST RIGHT CORNER OF THE DRG.

		BHARAT HEAVY ELECTRICALS LIMITED		DRN.		NAME		SIGN.		DATE		NO. OF VAR.	
HYDERABAD						UDAY				14.03.25			
						CHD. KCM				14.03.25			
						APPD. AMAN				14.03.25			
DEPT. PULV. ENGG. CODE 446		UNTLT. DIMS. GR. C/M/F				SCALE NTS		WEIGHT (KG)		REF. TO ASSY DRG. 0-00-610-87114		ITEM NO. NO. OF ITEMS	
TITLE		FOUNDATION PLAN OF HP 1103 MOUNT - DYNAMIC CLASSIFIER (WITH PLANETARY GEAR BOX)						CARD CODE		DRAWING NO. HY-DG-0-00-610-87114		REV. 02	
								SHEET NO. 01		NO OF SHEETS 01			

REV.	DATE	ALTERED	UDAY	REV.	DATE	ALTERED	UDAY
02	31.03.26	CHD./APPD.	KCM/AMAN	01	02.01.26	CHD./APPD.	KCM/AMAN
ZONE	MODIFIED INLINE WITH CUSTOMER VIDEO COMMENTS			ZONE	MODIFIED INLINE WITH CUSTOMER VIDEO COMMENTS		

[illegible]



1 X 800 MW Super Critical Thermal Power Plant Unit No.7 on Ash Dyke Area at Ukai



COMMENT RESOLUTION SHEET

COMMENT RESOLUTION SHEET						
DESCRIPTION		GA DRAWING OF HP-1103 MILL				
BHEL DOCUMENT/DRAWING No.		0-00-620-87146				
GSECL/STEAG DOC NO.						
Revision No.		R0	R1	R1		
Sl. No.	GSECL / STEAG Comments (Rev No. 00)	BHEL's Clarification (Response / Resolution) on Rev. No. 00	GSECL / STEAG Comments/Approval (Rev No. 01)	BHEL's Clarification (Response / Resolution) on Rev. No. 01	Status (Open/Close)	Remarks (if Any)
	DTN/Email Ref : Approval Category : -3	BHEL Reference No. and Date: 26.02.2026	DTN/Email Ref : Approval Category :3	BHEL Reference No. and Date :		
1	Approval of this document is subjected to approval of sizing calculation and performance curve document.	Noted. Sizing calculation and performance curve document is under review by customer.	Comments given on the sizing calculation. Revised document awaited from BHEL.	Revised document submitted.	Open	
2	Design pressure to be included in the drawing.	Details are part of Mill Data sheet- Ref: HY-DG-BA-DS-UKAII-00	Noted. However same to be include in the notes.	Included	Open	
3	Pressure drop across mill to be included in the document.	Details are part of Mill Data sheet- Ref: HY-DG-BA-DS-UKAII-00	Noted. However add operating DP in the notes.	Included	Open	
4	BHEL to include mill reject system connection in the GAD. Also include mill reject rate at 100% BMCR Worst coal firing.	Details are part of Mill Data sheet- Ref: HY-DG-BA-DS-UKAII-00	In mill data sheet average and maximum reject rate is given for design coal. BHEL to provide data for mill reject rate at 100% BMCR Worst coal firing in the notes..	Included	Open	
5	Please include details on method of fire detection and control in the datasheet and mention the document no. where these information has been covered.	Details are part of Mill Data sheet- Ref: HY-DG-BA-DS-UKAII-00	Fire detection, inerting & firefighting scheme not represented clearly in GAD. BHEL to add schematic reference / tagging for fire system	for Fire detection, inerting & firefighting scheme ref: SCHEME OF PULVERISER SYSTEM WITH INSTRUMENTATION (1-97-291- 91006)	Open	
6	BHEL to confirm the following- Coal fineness as per mill sizing calculation to be demonstrated at site for each mill by coal sampling as per ISO 9931 & with grinding elements within the guaranteed wear life of respective wear elements.	Confirmed.	Noted		Closed	
7	Please include heat load of lube oil and DMCW requirement for cooling of lube oil in the GAD. Alternatively, please submit the datasheet applicable for mill.	Details are part of Mill Data sheet- Ref: HY-DG-BA-DS-UKAII-00	In mill data sheet BHEL mentioned : Lube Oil – Cooling water requirement: CW Inlet Temperature: 38.0 deg c, CW Outlet Temperature: 43.0 deg c Cooling water flow:- 20 m3/hr However the the quantity of lube oil flow and the oil temperature after cooler not mentioned. BHEL to include the same in the data sheet.	Lube oil Flow is already indicated. 250 LPM lube oil flow.	Open	



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	DTN/Email Ref : Approval Category : -3	BHEL Reference No. and Date: 26.02.2026	DTN/Email Ref : Approval Category :3	BHEL Reference No. and Date :		
8	BHEL to include the document no in the reference drawing list for the following- Mill O/L Valve Variable orifice	Mill O/L Valve is not part of MDL, details shall be part of mill instruction manual. Variable orifice is supplied by BHEL Trichy as part of fuel piping package.	1. BHEL to provide the document number of the instruction manual in the reference list. 2. BHEL to provide the document number of the variable orifice in the reference list.	1. Mill Instruction manual - Ref: HY-BM-UKAI-IM-00 2. variable orifice details shall be part of Erection drawings of Fuel piping.	Open	
9	Refer Note-11 of the document. BHEL to clarify the purpose of seal air flow to coal pipe as indicated.	Coal Pipe Seal Air is supplied to the length of burner pipe between the burner dampers and mill discharge valve damper, when both are closed, in order to provide a positive seal to prevent coal from leaking through the burner damper, when the burner is not in service.	Noted. Note- 11 has to be updated accordingly.		Open	
10	Re-Check With Drg No 022-78646 for mill maintenance platform	Drg No 022-78646 shall be revised to EL 4.91M.	Noted & closed in this document		Closed	
11	Mention EL of Gear box foundation	Indicated.	Noted		Closed	
12	No of Tapping with locations for PT & DPT should be shown	please refer elevation view. 2 tapings are provided on Airinlet housing and 3 tapings are provided on seperator body.	Noted		Closed	
13	BHEL to confirm MOC and hardness level as under, Material of construction – Rolls' Inserts & Bull Ring Segments shall be of Sintered carbide. The inserts shall be bound with soft grey iron metal for the Rolls. The hardness difference shall be less than 100 BHN, but would not affect the performance of the same. Refer pre-bid resolution sr no:495, in Corrigendum no:8.	Grinding Elements are Sintercast Metallurgy having high hardness of 59-66 HRC. Since the running hours of both Rollers and BRS is to be kept same (Rolls and BRS to be replaced in sets); hence hardness of Grinding Rollers and BRS is also maintained in the same range of 59-66 HRC.	Noted		Closed	
14	Re-Check With Drg No 022-78646	Drg No 022-78646 shall be revised to EL 4.91M.	Noted & closed in this document		Closed	



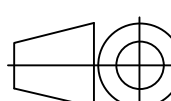
1 X 800 MW Super Critical Thermal Power Plant Unit No.7 on Ash Dyke Area at Ukai



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Revision No.		R0	R1	R1		
Sl. No.	GSECL / STEAG Comments (Rev No. 00)	BHEL's Clarification (Response / Resolution) on Rev. No. 00	GSECL / STEAG Comments/Approval (Rev No. 01)	BHEL's Clarification (Response / Resolution) on Rev. No. 01	Status (Open/Close)	Remarks (if Any)
	DTN/Email Ref : Approval Category : -3	BHEL Reference No. and Date: 26.02.2026	DTN/Email Ref : Approval Category :3	BHEL Reference No. and Date :		
15			BHEL to show mill reject connection with interface limits in the key plan or indicate the document number in the notes.	Terminal Point of Mill Reject Handling is shown in section H-H. Further connection is taken care by reject handling vendor as per approved mill GA and Boiler layout drawings.	Open	
16			Classifier motor rating mismatch (11 kW in mill data sheet vs 45 kW in GAD). BHEL to do necessary correction across all documents	45 KW is Classifier motor rating. Modified in data sheet.	Open	
17			There is mismatch in Discharge valve size (26" in mill data sheet vs 28" in GAD). BHEL to confirm and standardize valve size	28" is final, modified in all documents.	Open	
18			BHEL to show the crane position in the key plan and the maximum lifting capacity of the crane hook in the GAD.	Crane position and lifting arrangement are part of Mill Handling drawing(ref: MILL HANDLING ARRANGEMENT AND WRITE-UP : HY-DG-1-61-510-02934)	Open	
19			BHEL to note that multiple interfaces between different BHEL unit are indicated in the document. BHEL to ensure that there should not be any data mismatch or interface issues w.r.t the scope of work.	BHEL shall ensure all interfaces details.	Open	



ग्राहक /CUSTOMER				GUJARAT STATE ELECTRICITY CORPORATION LIMITED					
परियोजना PROJECT		1X800MW SUPER CRITICAL THERMAL POWER PLANT UNIT NO.7 ON ASH DYKE AREA AT UKAI							
OWNER'S CONSULTANT				STEAG ENERGY (SERVICES) INDIA PVT. LTD.					
		BHARAT HEAVY ELECTRICALS LIMITED HYDERABAD			DRN.	NAME	SIGN.	DATE	NO.OF VAR.
						UDAY		26.09.25	
					CHD.	PVS		26.09.25	
					APPD.	AMAN		26.09.25	
DEPT. CODE	UNTL. DMS. GR. C/M/FR			SCALE NTS	WEIGHT (KG)	BHEL DRAWING NUMBER 0-00-620-87146	ITEM NO.	NO.OF ITEMS	
446									
TITLE GENERAL ARRANGEMENT DRAWING OF HP-1103 MILL (WITH PLANETARY GEAR BOX)					CARD CODE	CUSTOMER DRAWING NO. 0-00-620-87146			REV. 02
						SHEET NO. 01	NO. OF SHEETS		01