

Corrigendum 1 dated August 11, 2021 to Tender Specification BHEL PSSR SCT 1979 for the works of Part A: Balance works for Civil, Structural and Architectural works of various buildings/structures including Ground improvement works (Inside plant boundary) and Balance works for construction of RCC Chimney and Part B: Providing, installing and handing over of two covered coal sheds covering three coal stock piles using tubular steel sections conforming to IS 1161 / IS 4923 and Steel structural sections conforming to IS 2062-2006, Roof monitor if required shall be provided on full length as per the requirement. Scope is inclusive of Design, supply, fabrication, welding, handling, assembling & erection in position of tubular space frame structure or Steel framed structure, cladding sheets (roof and side sheeting) and handing over to customer (as per specification) At 2 X 660 MW Ennore SEZ TPP (Unit 1 and 2)

A. The following clauses are changed / modified as below:

Sl. No.	Reference Clause No.	Existing clause	Changed clause
1)	Volume-IA, Technical Conditions of Contract (Volume I Book I) Part-II, Chapter -1, Corrections / Revisions in Special Conditions of Contract, General Conditions of Contract and Forms & Procedures, Sl. No.11.	<u>Sl. No.: 11</u> The chapter Reverse auction procedure published in 'Forms and Procedures' of Volume I Book-II stands deleted. 'Guidelines for Reverse Auction-2020' available in the website http://www.bhel.com -> Supplier Registration, shall be applicable.	<u>Sl. No.: 11</u> The chapter Reverse auction procedure published in 'Forms and Procedures' of Volume I Book-II stands deleted. 'Guidelines for Reverse Auction-2021' available in the website http://www.bhel.com -> Supplier Registration, shall be applicable.
2)	Volume-II, Price Bid Part C : Bill of Quantities pertaining to "Scope of Works-Part A" titled "Tender Specification BHEL:PSSR:SCT:1979_ PART_A", Description at Ref. No. 2301 (b)	Erection of fabricated structural steel material with mild steel rolled section / built up section / combination of both conforming to IS:2062, pipes conforming to IS:1161/ IS:1239, chequered plate conforming to IS: 3052, mild steel rounds, monorails, stays, safety chains, ladders, MS grating etc. in columns, beams, gantry girders, bunkers, silos, hoppers, roof trusses, portals, laced purlins, space frames, hangers, struts, monorails, galleries, stiffeners, wall beams, sheeting runners, brackets, stub columns, bracings, cleats, trestles, base plates, splice plates, chequered plate flooring, decking and seal plates, steel	Erection of fabricated structural steel material with mild steel rolled section / built up section / combination of both conforming to IS:2062, pipes conforming to IS:1161/ IS:1239, chequered plate conforming to IS: 3052, mild steel rounds, monorails, stays, safety chains, ladders, MS grating etc. in columns, beams, gantry girders, bunkers, silos, hoppers, roof trusses, portals, laced purlins, space frames, hangers, struts, monorails, galleries, stiffeners, wall beams, sheeting runners, brackets, stub columns, bracings, cleats, trestles, base plates, splice plates, chequered plate flooring, decking

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Sl. No.	Reference Clause No.	Existing clause	Changed clause
		frame grid over false ceiling, walkway platforms, ladders, stairs, stringers, treads, landings, hand-rails etc including transportation of available fabricated materials it's cleaning, making approach to the material, leftout welding , straightening, making fit to for erection without any extra cost to BHEL, 2 coats of redoxide zinc-chromate primer (one coat at shop and one coat after erection), connection design & preparation of fabrication drgs (if required), collection of steel from stores/other agency yard within site premises, fabrication, straightening, cutting, bending, rolling, grinding, machining, drilling, welding, electrodes and other consumables, alignment, erection bolts & nuts (weight of erection bolts, nuts and welds not payable), assembly, edge preparation, preheating (min preheat and interpass temperature of 20o C for welding over 20 mm and upto 40 mm & 66o C for welding over 40 mm and upto 63 mm & 110o C for thickness over 63 mm & use of low hydrogen/ radiogenic electrodes), post heating, testing of welders, inspection of welds, visual inspection, non destructive and special testing, rectification and correction of defective welding works, production test plate, inspection and testing, erection scheme, protection against damage in transit, stability of structures, installation of temporary structures, setting column bases, surface preparation by means of manual or mechanical power tools as per IS:1477 part 1, touch-up painting, rectification, dismantling and removal of all temporary structures	and seal plates, steel frame grid over false ceiling, walkway platforms, ladders, stairs, stringers, treads, landings, hand-rails etc including transportation of available fabricated materials, it's cleaning, making approach to the material, leftout welding , straightening, making fit for erection without any extra cost to BHEL, 2 coats of redoxide zinc-chromate primer (one coat at shop and one coat after erection), connection design & preparation of fabrication drgs & erection drawing (if required), collection of steel from stores/other agency yard within site premises, welding, electrodes and other consumables, alignment, erection bolts & nuts (weight of erection bolts, nuts and welds not payable), assembly, edge preparation, preheating (min preheat and interpass temperature of 20o C for welding over 20 mm and upto 40 mm & 66o C for welding over 40 mm and upto 63 mm & 110o C for thickness over 63 mm & use of low hydrogen/ radiogenic electrodes), post heating, testing of welders, inspection of welds, visual inspection, non destructive and special testing, rectification and correction of defective welding works, production test plate, inspection and testing, erection scheme, protection against damage in transit, stability of structures, installation of temporary structures, setting column bases, surface cleaning, touch-up painting, rectification, dismantling and removal of all temporary structures (weight of temporary structures not payable), return of surplus / waste steel materials to store etc all complete.

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Sl. No.	Reference Clause No.	Existing clause		Changed clause	
		(weight of temporary structures not payable), return of surplus / waste steel materials to store etc all complete.			
3)	Volume-II, Price Bid Part C : Bill of Quantities pertaining to "Scope of Works-Part A" titled "Tender Specification BHEL:PSSR:SCT:1979_PART_A", Description at Ref. No.	16.0	Transportation from BHEL stores and placing reinforcement, for reinforced concrete work, at all levels, for all kinds of work, including transportation, cleaning, derusting, straightening, cutting, bending, binding in position with annealed wire and/or welding, providing concrete cover blocks, pins, separators, chairs, supports for reinforcement, etc. with all materials, labour, equipment, handling, transporting, testing, etc. preparation of bar bending schedules, all complete as per specifications, drawings and instructions of the Engineer.	16.0	Transportation from BHEL stores and placing reinforcement, for reinforced concrete work, at all levels, for all kinds of work, including transportation, cleaning, derusting, straightening, cutting, bending, binding in position with annealed wire and/or welding, providing concrete cover blocks, pins, separators, chairs, supports for reinforcement, etc. with all materials, labour, equipment, handling, transporting, testing, etc. preparation of bar bending schedules, all complete as per specifications, drawings and instructions of the Engineer.
	16.0 i	i	For all works below ground level (except chimney shell)	i	For all works below ground level (except chimney shell)
	a	a	High strength deformed bars	a	High strength deformed bars (Supply by BHEL at free of cost)

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Sl. No.	Reference Clause No.	Existing clause		Changed clause		
4)	Volume-II, Price Bid Part C : Bill of Quantities pertaining to “Scope of Works-Part A” titled “Tender Specification BHEL:PSSR:SCT:1979_ PART_A”, Description at Ref. No. 16A ii a	16A	Providing and placing reinforcement, for reinforced concrete work, at all levels, for all kinds of work, including transportation, cleaning, derusting, straightening, cutting, bending, binding in position with annealed wire and/or welding, providing concrete cover blocks, pins, separators, chairs, supports for reinforcement, etc. with all materials, labour, equipment, handling, transporting, testing, etc. preparation of bar bending schedules, all complete as per specifications, drawings and instructions of the Engineer.	16A	Providing and placing reinforcement, for reinforced concrete work, at all levels, for all kinds of work, including transportation, cleaning, derusting, straightening, cutting, bending, binding in position with annealed wire and/or welding, providing concrete cover blocks, pins, separators, chairs, supports for reinforcement, etc. with all materials, labour, equipment, handling, transporting, testing, etc. preparation of bar bending schedules, all complete as per specifications, drawings and instructions of the Engineer.	
			ii	For all other works	ii	For all other works
			a	Mild steel reinforcement bars	a	Mild steel reinforcement bars (Supply is in bidder's scope)
5)	Volume-II, Price Bid Part C : Bill of Quantities pertaining to “Scope of Works-Part A” titled “Tender Specification BHEL:PSSR:SCT:1979_ PART_A”, Description at Ref. No. 16B b	16B	Transportation from BHEL stores and placing reinforcement, for reinforced concrete work, at all levels, for all kinds of work, including transportation, cleaning, derusting, straightening, cutting, bending, binding in position with annealed wire and/or welding, providing concrete cover blocks, pins, separators, chairs, supports for reinforcement, etc. with all materials, labour, equipment, handling, transporting, testing, etc. preparation of bar bending schedules, all complete as per specifications, drawings and instructions of the Engineer.	16B	Transportation from BHEL stores and placing reinforcement, for reinforced concrete work, at all levels, for all kinds of work, including transportation, cleaning, derusting, straightening, cutting, bending, binding in position with annealed wire and/or welding, providing concrete cover blocks, pins, separators, chairs, supports for reinforcement, etc. with all materials, labour, equipment, handling, transporting, testing, etc. preparation of bar bending schedules, all complete as per specifications, drawings and instructions of the Engineer.	
			b	High strength deformed bars	b	High strength deformed bars (Supply by BHEL at free of cost)

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Sl. No.	Reference Clause No.	Existing clause		Changed clause	
6)	Volume-II, Price Bid Part C : Bill of Quantities pertaining to "Scope of Works-Part A" titled "Tender Specification BHEL:PSSR:SCT:1979_PART_A", Description at Ref. No. 23.0 23(i) 23(ii) 23(iii) 23(iv) 23(v)	23.0	Preparing detailed fabrication drawings after approval by the Engineer, Transportation from BHEL stores, fabricating and erecting structural steel work for the stair case (from grade level to roof level), internal platforms, walkway gallery structures, chequered plate panels (for floors of internal and external platforms), treads and landings of the staircase including brackets, kick plates, structural members, beam support bearings on the shell, stiffeners, seats, blockouts, ready to bolt fixtures, cost of all labour, material and equipment, transporting, lifting to all heights, setting in place, welding to cast in fixing place, cutting, grinding, drilling, bolts and bolting, anchor fasteners, welding, preheating and post heating for welding, testing, primer and finish painting etc. complete as per drawing and specifications.	23.0	Preparing detailed fabrication drawings after approval by the Engineer, Transportation from BHEL stores, fabricating and erecting structural steel work for the stair case (from grade level to roof level), internal platforms, walkway gallery structures, chequered plate panels (for floors of internal and external platforms), treads and landings of the staircase including brackets, kick plates, structural members, beam support bearings on the shell, stiffeners, seats, blockouts, ready to bolt fixtures, cost of all labour, material and equipment, transporting, lifting to all heights, setting in place, welding to cast in fixing place, cutting, grinding, drilling, bolts and bolting, anchor fasteners, welding, preheating and post heating for welding, testing, primer and finish painting etc. complete as per drawing and specifications. (Structural steel for staircase shall be provided by BHEL free of cost)
		23(i)	Preparing detail fabrication drawing & approval 5%	23(i)	Preparing detail fabrication drawing & approval
		23(ii)	Fit-up/Fabrication 45%	23(ii)	Fit-up/Fabrication
		23(iii)	Erection 29%	23(iii)	Erection
		23(iv)	Alignment & welding 5%	23(iv)	Alignment & welding
		23(v)	Painting 16%	23(v)	Painting

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Sl. No.	Reference Clause No.	Existing clause		Changed clause	
7)	Volume-II, Price Bid Part C : Bill of Quantities pertaining to “Scope of Works-Part A” titled “Tender Specification BHEL:PSSR:SCT:1979_PART_A”, Description at Ref. No. 26.0	Transportation from BHEL stores, Preparing detailed fabrication drawings and after approval by the Engineer, fabricating and erecting, at all levels, structural steel flues (liners) ,(Structural steel sections to be used for flue shall be corrosion resistant steel type “COR-TEN-B” having an yield stress 250MPa conforming to IS 2062 (E250) of minimum thickness 10mm unless noted, complete with all bends, flanges, stiffeners, all other flue attachments, support system, collars, access manholes and gas sampling ports alongwith gaskets and other accessories, staying system, including the cost of all labour, material (except CORTEN-B structural steel section) and equipment, transporting, lifting to all heights, setting in place, cutting, grinding, drillings, bending, bolts and bolting, welding, preheating and post-heating for welding, testing, etc. complete as per drawings and specifications. (COR-TEN-B shall be supplied by BHEL free of cost)		Transportation from BHEL stores, Preparing detailed fabrication drawings and after approval by the Engineer, fabricating and erecting, at all levels, structural steel flues (liners) ,(Structural steel sections to be used for flue shall be corrosion resistant steel type “COR-TEN-B” having an yield stress 250MPa conforming to IS 2062 (E250) of minimum thickness 10mm unless noted, complete with all bends, flanges, stiffeners, all other flue attachments, support system, collars, access manholes and gas sampling ports alongwith gaskets and other accessories, staying system, including the cost of all labour, material (except COR-TEN-B structural steel section) and equipment, transporting, lifting to all heights, setting in place, cutting, grinding, drillings, bending, bolts and bolting, welding, preheating and post-heating for welding, testing, etc. complete as per drawings and specifications. (COR-TEN-B shall be supplied by BHEL free of cost)	
8)	Volume-II, Price Bid Part C : Bill of Quantities pertaining to “Scope of Works-Part A” titled “Tender Specification BHEL:PSSR:SCT:1979_PART_A”, Description at Ref. No. 30.0 30 (a) 30 (b)	30.0	Preparing detailed fabrication drawings after approval by the Engineer, erecting, at all levels SS Mini Shell at roof shell of grade A316L , etc. complete as per drawing and specifications.	30.0	Preparing detailed fabrication drawings after approval by the Engineer, erecting, at all levels SS Mini Shell_at roof shell of grade A316L, etc. complete as per drawing and specifications. (Supply by BHEL free of cost)
		30 (a)	Fabrication	30 (a)	Fabrication
		30 (b)	Erection	30 (b)	Erection

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Sl. No.	Reference Clause No.	Existing clause		Changed clause	
9)	Volume-II, Price Bid Part C : Bill of Quantities pertaining to "Scope of Works-Part A" titled "Tender Specification BHEL:PSSR:SCT:1979_PART_A", Description at Ref. No. 1.0 1.1 1.2* a)* b)* 1.3* 1.4* 1.5* --	1.0	VENTILATION SYSTEM FOR CHIMNEY	1.0	VENTILATION SYSTEM FOR CHIMNEY
		1.1	Centrifugal fan nuts etc.	1.1	Centrifugal fan nuts etc.
		1.2*	MS DUCTING, DIFFUSER/GRILL WITH EXPOXY PAINT	1.2	MS DUCTING, DIFFUSER/GRILL WITH EXPOXY PAINT
		a)*	18 G	a)	18 G
		b)*	20 G	b)	20 G
		1.3*	MS Grilles with VCD	1.3	MS Grilles with VCD
		1.4*	Wall mounted dampers (gravity operated) for different areas.	1.4	Wall mounted dampers (gravity operated) for different areas.
		1.5*	Inlet Louvres	1.5	Inlet Louvres
		--	The bidder shall furnish unit rates for variable item (marked *) i.e., ducting, supply grilles, diffusers, gravity damper, etc for necessary adjustment (plus or minus) variation during detailed engg. stage. The unit rates quoted above shall be considered and no separate unit rates shall be quoted. Unit rates shall be valid throughout the contract.	--	-Stands Deleted-

B. Some of the Bidders had raised queries on the published tender Specifications. The clarifications are furnished below:

Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
1)	Drawings	Not provided	Please provide the AutoCAD Drawings for Structural and Architectural Drawings	PDF drawings of major area of works as per scope of work are attached as Annexure 01 to this Corrigendum (16 pages).

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
2)	Scope of Works		Please provide the detail balance scope of works along with completed works as mention in the Drawings	Indicative list of balance scope of civil works along with completed works is mentioned in Annexure-A to VOLUME-IA PART – I CHAPTER – II - SCOPE OF WORKS, under STATUS OF BALANCE WORKS – CIVIL FOR PART-A. However, bidder is requested to visit site to know the actual status of balance and completed works.
3)	Volume-II, Price Bid Part C : Bill of Quantities pertaining to “Scope of Works-Part A” titled “Tender Specification BHEL:PSSR:SCT:1979_PART_A”, Ref. No A922 DOORS, WINDOWS, VENTILATORS, LOUVERS	Providing and fixing of wooden panels of veneered BWP grade plywood including teakwood baton grid for interior partition including fittings, fixtures etc all complete as per specification.	Please provide the thickness of wooden panels	Thickness of wooden panel shall be 12 to 18mm as per requirement of drawing and specification.
4)	Volume-II, Price Bid Part C : Bill of Quantities pertaining to “Scope of Works-Part A” titled “Tender Specification	53.0 Providing and painting, at all levels, the external surfaces of chimney shell and wherever as directed by the Engineer, with synthetic enamel paint in alternate bands as per drawings and specification	We presume that two coats of Painting work. Kindly confirm.	As per clause 12.08.18 for Chimney Painting - Volume-VI(A): Civil, Structural & Architectural Works. (Chapter -2 in Part II of Volume –IA Technical Conditions of Contract). The top 50m of the outside surface of the

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	BHEL:PSSR:SCT:1979_PART_A", CHIMNEY WORKS Ref. No 53.0 and 54.0 Painting	54.0 Providing and painting, at all levels, the external surfaces of chimney shell and wherever as directed by the Engineer, with acid and heat resistant polyurethane paint in alternate bands as per drawings and specification.		shell shall be painted with 4-coats of acid and heat resistant paint (Polyurethane) over a coat of primer with total DFT 150 microns in alternate bands of signal red and white colour. (applicable for ST No. 54) The remaining portion of the outside surface of the shell shall be painted with 4-coats of Synthetic enamel paint (IS:5410) with total DFT 150 microns over a coat of primer in alternate bands of signal red and white colour. (applicable for ST No. 53)
5)	Volume IC Book II General Conditions of Contract Clause 2.22 on Retention Amount	2.22 RETENTION AMOUNT 2.22.1 Retention Amount shall be 5% of executed contract value and shall be recovered at the rate of 5% from each Running Bill admitted, including PVC Bills. 2.22.2 Refund of Retention Amount shall be as follows: i) 100% of Retention Amount shall be released along with Final Bill after deducting all expenses/ other amounts due to BHEL under the contract/ other contracts entered into with them (contractor) by BHEL.	We request you to consider the release of retention money against submission of Equivalent BG valid till DLP	Tender condition prevails.
6)	Volume IC Book II General Conditions of Contract	2.17.1 In order to take care of variation in cost of execution of work on either side, due to variation in the index of LABOUR, HIGH SPEED DIESEL OIL, WELDING ROD, CEMENT, STEEL, MATERIALS, Price Variation Formula as	We request you to accept that PVC shall be applicable for the entire original contract period and	Tender condition prevails.

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	Clause 2.17.1 under Price Variation Compensation	described herein shall be applicable (only for works executed during extended period, if any, subject to other conditions as described in this section).	the extended contract period. Please Confirm.	
7)	General –ESI		We have presume that ESI are not in Contractor Scope. Please Confirm.	Bidder to refer clauses under Sl. No. 1.10.3.3 provided in Chapter X in Part-I of Volume-IA Technical Conditions of Contract and other relevant clauses. Tender condition prevails.
8)	General –Labour Cess		We have presume that Labour cess are not in Contractor Scope. Please Confirm.	Bidder to refer clauses under Sl. No. 1.10.3.1 provided in Chapter X in Part-I of Volume-IA Technical Conditions of Contract and other relevant clauses. Tender condition prevails.

Annexures:

1) Annexure 01: Drawings (16 pages) referred at Sl. No.1 of BHEL's reply to Bidder's query.

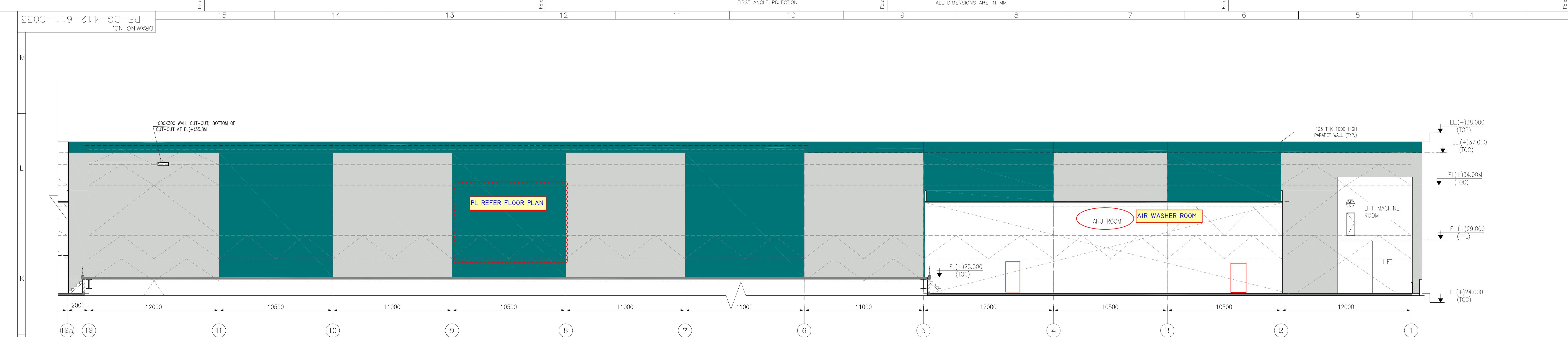
ALL OTHER CONDITIONS REMAIN UNCHANGED.

BIDDERS ARE REQUESTED TO CONSIDER THIS CORRIGENDUM AS PART OF TENDER SPECIFICATION AND QUOTE ACCORDINGLY.

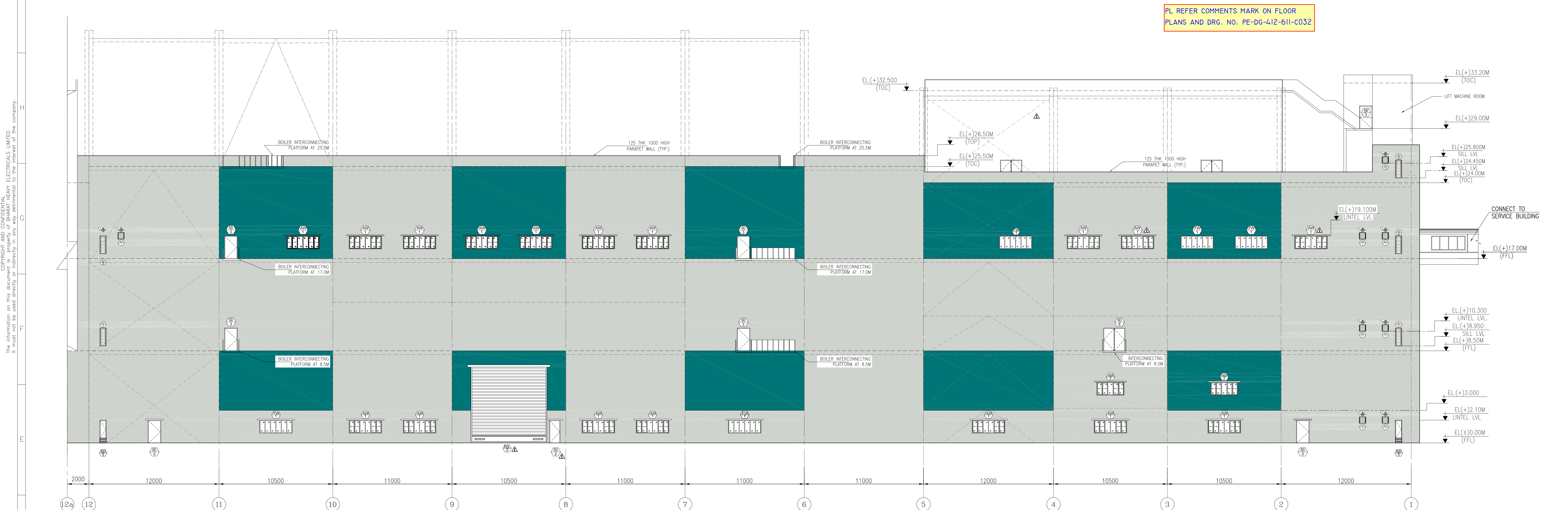
-Sd-
(Gurupriya L)
Manager/SCT

Annexure-01 to Corrigendum 1 dated August 11, 2021 to Tender Specification BHEL PSSR SCT 1979
(Drawings (16 pages) referred at Sl. No.1 of BHEL's reply to Bidder's query)

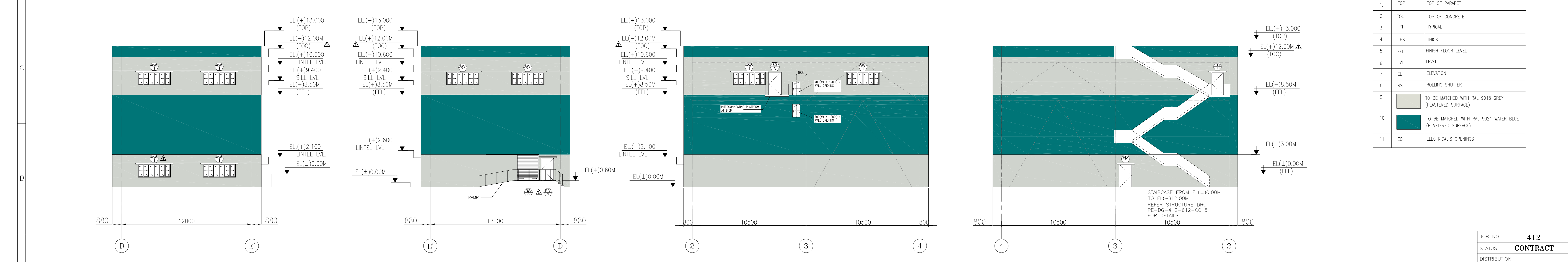
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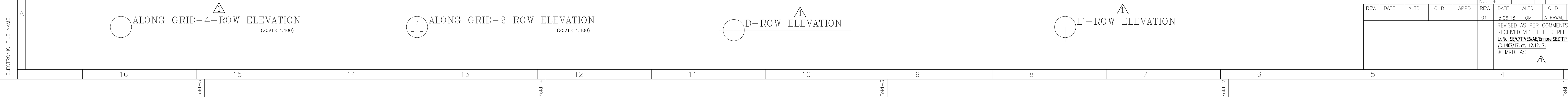
5 B-ROW ELEVATION (UNIT#1)



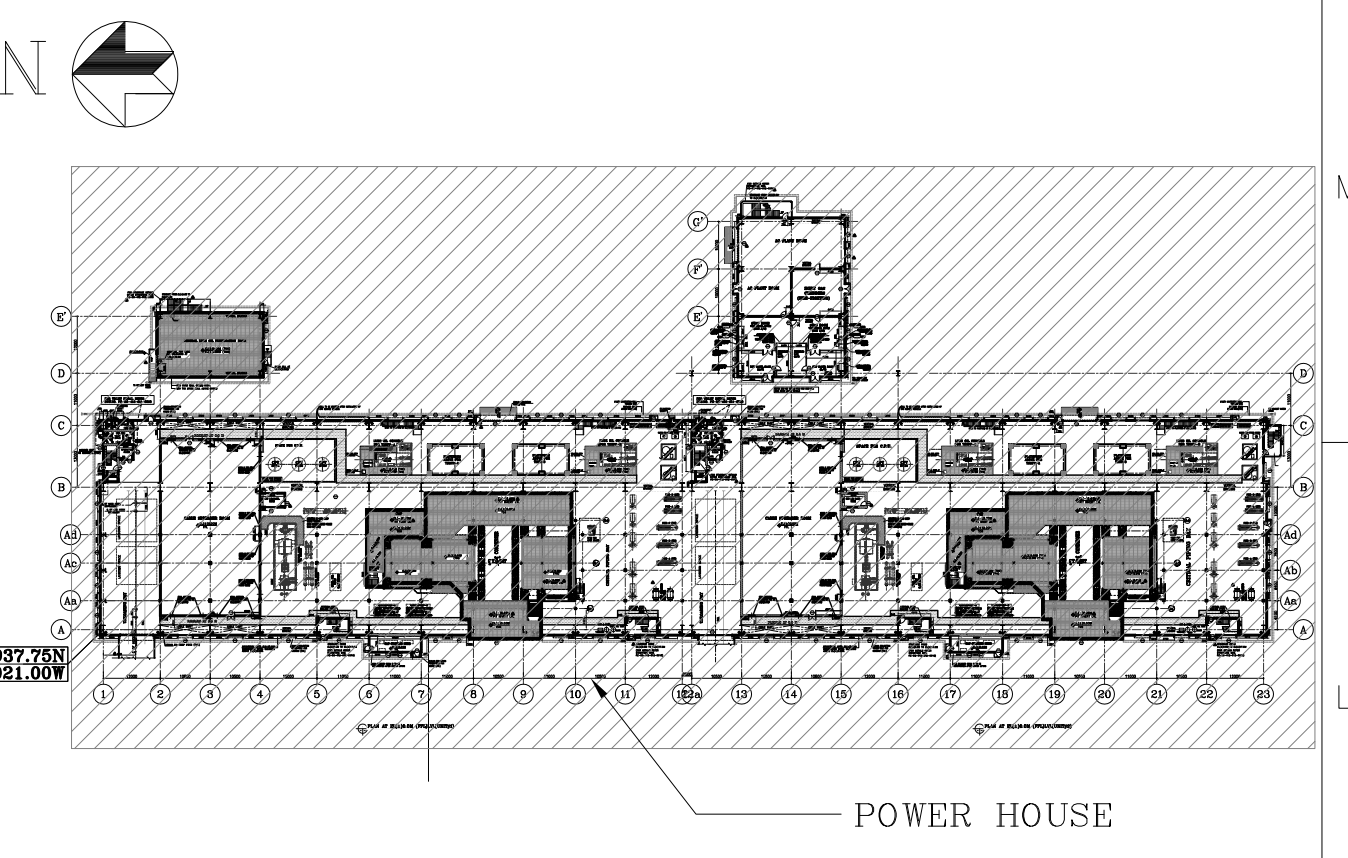
1 C-ROW ELEVATION (UNIT#1)



1 D-ROW ELEVATION



1 E'-ROW ELEVATION



KEY PLAN

- NOTES:-**
1. ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
 2. ALL ELEVATIONS ARE REFERRED TO POWER HOUSE FINISHED GROUND FLOOR ELEVATION $\pm$ 0.00M WHICH CORRESPONDS TO RL(+10.00M).
 3. FOR TG COLS & FLOOR FRAMING REFER CIVIL DRGS SEPARATELY.
 4. UNLESS NOTED OTHERWISE WINDOW / DOOR / ROLLING SHUTTER LOCATION SHALL BE AT CENTER BETWEEN GRIDS.
 5. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, SPECIFICATION AND SCHEDULE OF ITEMS.

- REFERENCE DRGS:-**
1. PE-DG-412-100-M001 - PLOT PLAN
 2. PE-DG-412-100-M003-R4 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 0.00M
 3. PE-DG-412-100-M004-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 8.50M
 4. PE-DG-412-100-M005-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 17.00M
 5. PE-DG-412-100-M006-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 24.00M / 25.50M
 6. PE-DG-412-100-M007-R2 - CROSS SECTION OF MAIN PLANT

- ARCHITECTURAL STANDARD DRAWINGS:-**
1. PE-DG-412-611-C031 - PH BUILDING-GEN. NOTES & STD. DETAILS FOR ARCH. WORKS

- ARCHITECTURAL DRAWINGS:-**
1. PE-DG-412-611-C035 & C036-R1 - PH BUILDING - FLOOR PLAN AT EL(+10.00M)
 2. PE-DG-412-611-C039-R1 - PH BUILDING - FLOOR PLAN AT EL(+13.50M)
 3. PE-DG-412-611-C040 & C041-R1 - PH BUILDING - FLOOR PLAN AT EL(+18.50M)
 4. PE-DG-412-611-C042-R1 - PH BUILDING - FLOOR PLAN AT EL(+12.00M)
 5. PE-DG-412-611-C043 & C044-R1 - PH BUILDING - FLOOR PLAN AT EL(+17.00M)
 6. PE-DG-412-611-C052 & C053-R1 - PH BUILDING - FLOOR PLAN AT EL(+24.00M)
 7. PE-DG-412-611-C054-R1 - PH BUILDING - FLOOR PLAN AT EL(+27.50M)
 8. PE-DG-412-611-C055-R1 - PH BUILDING - FLOOR PLAN AT EL(+32.50M)
 9. PE-DG-412-611-C056-R1 - PH BUILDING - ROOF PLAN
 10. PE-DG-412-611-C032-R1 - PH BUILDING - ARCHITECTURAL FRONT ELEVATION
 11. PE-DG-412-611-C033-R1-Sheet2of2 - PH BUILDING - ARCHITECTURAL REAR ELEVATION
 12. PE-DG-412-611-C034-R1 - PH BUILDING - ARCH. ELEVATION ALONG GABLE END

- STRUCTURAL DRAWINGS:-**
1. PE-DG-412-612-C001-R4 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-A
 2. PE-DG-412-612-C002-R4 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-B
 3. PE-DG-412-612-C003-R3 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-C
 4. PE-DG-412-612-C004-R2 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS -D, E & F

LEGENDS:-	
	- 345 THK FIRE BRICK WALL
	- CONCRETE HATCH
	- BRICK WALL
	- OPENING
	- GRATING FLOOR
	- CHEQUERED PLATE FLOOR
	- REMOVABLE GRATING FLOOR
	- REMOVABLE CHEQUERED PLATE FLOOR
	- LEVEL TAG
	- ROLLING SHUTTER
	- HAND RAILING
	- BOTTOM OF OPENING
	- CENTER LINE
	- EXHAUST FAN
	- ELEVATION
	- FINISHED FLOOR LEVEL
	- TOP OF CONCRETE
	- TOP OF CHEQUERED PLATE
	- TOP OF PARAPET
	- TOP OF GRATING
	- TYPICAL
	- UNLESS NOTED OTHERWISE

* NOTE:- FOR WALL CUT OUT, FLOOR CUTOUT REFER RESPECTIVE STRUCTURAL & ELECTRICAL, VENTILATION DRAWING

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)	
THIS DRAWING MARKED 'P' IS RELEASED FOR	
2. COMMENTS / APPROVAL	
3. PLANNING / INFORMATION	
4. CONSTRUCTION	
STAMP ALL PREVIOUS REVISION AS SUPERSEDED	
NAME	SOMNATH MISHRA
SIGNATURE	-64-
DATE	15.06.18

PROJECT		2x660MW ENNORE SEZ SUPERCritical THERMAL POWER PROJECT AT ASH DYKE OF NCTPS, CHENNAI	
OWNER		TAMILNADU GENERATION & DISTRIBUTION CORPORATION LIMITED	
OWNER'S CONSULTANT		DESEIN PRIVATE LIMITED DESEIN HOUSE, NEW DELHI	
EPC CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD	
BHARAT HEAVY ELECTRICALS LTD		POWER SECTOR PROJECT ENGINEERING MANAGEMENT NOIDA	
DEPT		NAME	
DRN		SIGN	
DESIGN		DATE	
CHD		10.07.17	
APPRO		10.07.17	
APPRO		10.07.17	
TITLE		POWER HOUSE BUILDING ARCHITECTURAL REAR ELEVATION (UNIT-1)	
DEPT		SCALE	
SIGN		DRAWING NO.	
DATE		PE-DG-412-611-C033	
SHEET		1 OF 2	
REV.		1	

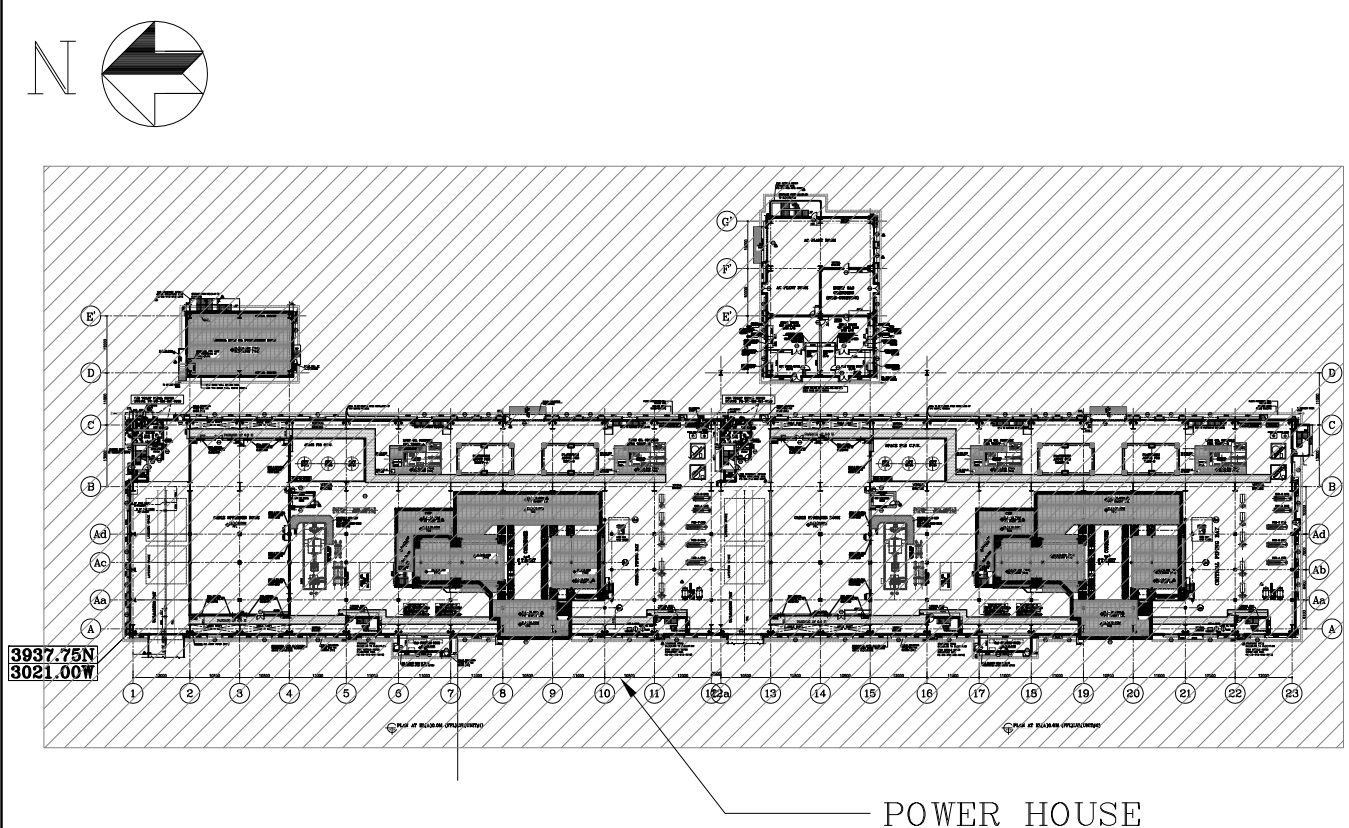
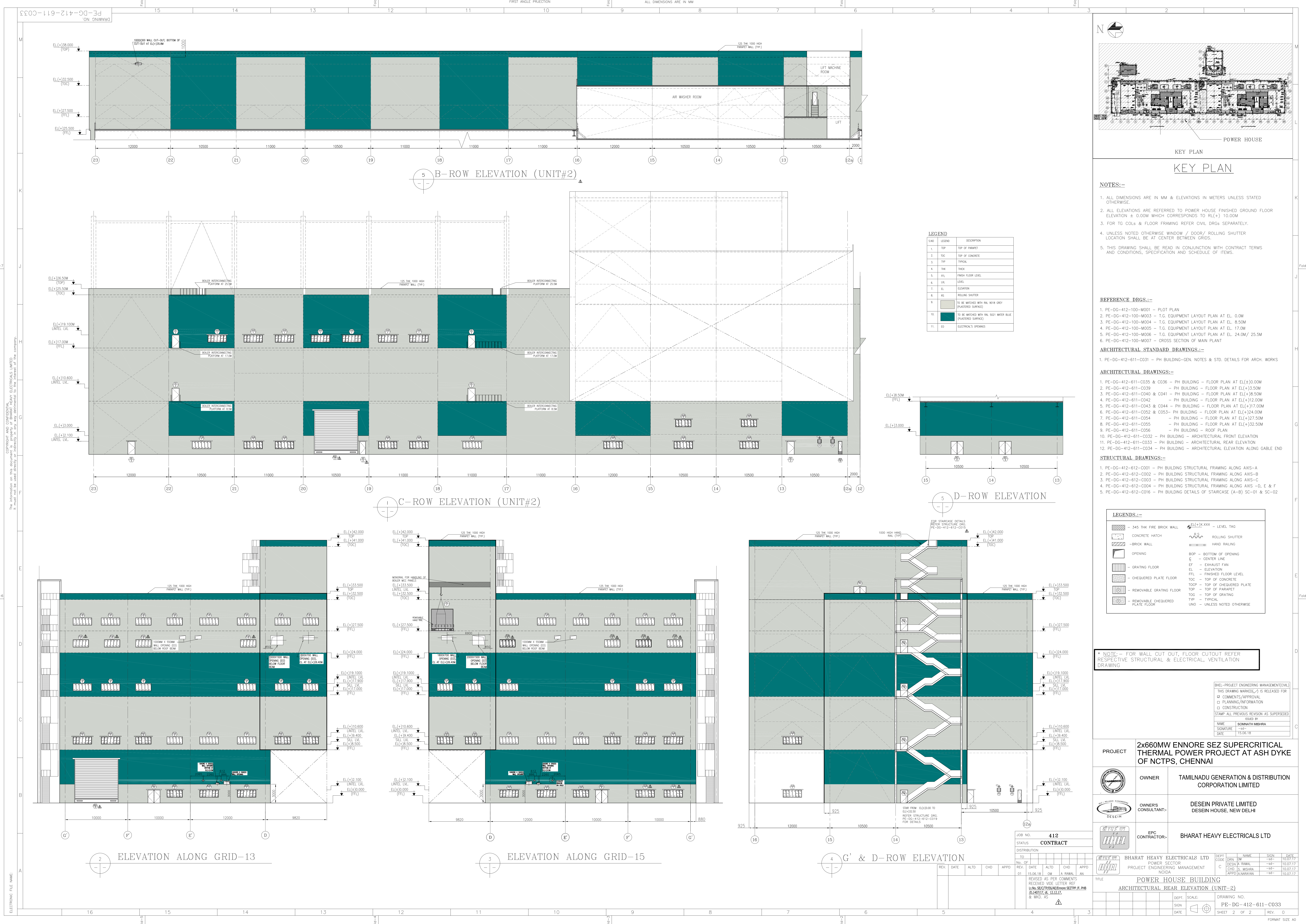
ELECTRONIC FILE NAME:

SNO	LEGEND	DESCRIPTION
1.	TOP	TOP OF PARAPET
2.	TOC	TOP OF CONCRETE
3.	TYP	TYPICAL
4.	THK	THICK
5.	FLL	FINISH FLOOR LEVEL
6.	LVL	LEVEL
7.	EL	ELEVATION
8.	RS	ROLLING SHUTTER
9.		TO BE MATCHED WITH RL 9018 GREY (PLASTERED SURFACE)
10.		TO BE MATCHED WITH RL 5021 WATER BLUE (PLASTERED SURFACE)
11.	EO	ELECTRICAL'S OPENINGS

JOB NO.		412
STATUS		CONTRACT
DISTRIBUTION		
TO		
REV	DATE	ALTD
01	15.06.18	OM
		A. RAJAN
		AN
REVISED AS PER COMMENTS RECEIVED. VIDE LETTER REF U.No. SEC/PM/ENR/ENR/SEZ/PP/IF/PH/14/07/17, D. 12.11.17, & MRD. AS		

REV.	DATE	ALTD	CHD	APPO

FORMAT SIZE A0



KEY PLAN

NOTES:-

1. ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
2. ALL ELEVATIONS ARE REFERRED TO POWER HOUSE FINISHED GROUND FLOOR ELEVATION ± 0.00M WHICH CORRESPONDS TO RL(+1) 10.00M
3. FOR TG COLS & FLOOR FRAMING REFER CIVIL DRGS SEPARATELY.
4. UNLESS NOTED OTHERWISE WINDOW / DOOR/ ROLLING SHUTTER LOCATION SHALL BE AT CENTER BETWEEN GRIDS.
5. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, SPECIFICATION AND SCHEDULE OF ITEMS.

REFERENCE DRGS.:-

1. PE-DG-412-100-M001 - PLOT PLAN
2. PE-DG-412-100-M003 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 0.0M
3. PE-DG-412-100-M004 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 8.50M
4. PE-DG-412-100-M005 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 17.0M
5. PE-DG-412-100-M006 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 24.0M/ 25.5M
6. PE-DG-412-100-M007 - CROSS SECTION OF MAIN PLANT

ARCHITECTURAL STANDARD DRAWINGS:-

1. PE-DG-412-611-C031 - PH BUILDING-GEN. NOTES & STD. DETAILS FOR ARCH. WORKS

ARCHITECTURAL DRAWINGS:-

1. PE-DG-412-611-C035 & C036 - PH BUILDING - FLOOR PLAN AT EL(+1)0.00M
2. PE-DG-412-611-C039 - PH BUILDING - FLOOR PLAN AT EL(+1)3.50M
3. PE-DG-412-611-C040 & C041 - PH BUILDING - FLOOR PLAN AT EL(+1)8.50M
4. PE-DG-412-611-C042 - PH BUILDING - FLOOR PLAN AT EL(+1)12.00M
5. PE-DG-412-611-C043 & C044 - PH BUILDING - FLOOR PLAN AT EL(+1)17.00M
6. PE-DG-412-611-C052 & C053 - PH BUILDING - FLOOR PLAN AT EL(+1)24.00M
7. PE-DG-412-611-C054 - PH BUILDING - FLOOR PLAN AT EL(+1)27.50M
8. PE-DG-412-611-C055 - PH BUILDING - FLOOR PLAN AT EL(+1)32.50M
9. PE-DG-412-611-C056 - PH BUILDING - ROOF PLAN
10. PE-DG-412-611-C032 - PH BUILDING - ARCHITECTURAL FRONT ELEVATION
11. PE-DG-412-611-C033 - PH BUILDING - ARCHITECTURAL REAR ELEVATION
12. PE-DG-412-611-C034 - PH BUILDING - ARCHITECTURAL ELEVATION ALONG CABLE END

STRUCTURAL DRAWINGS:-

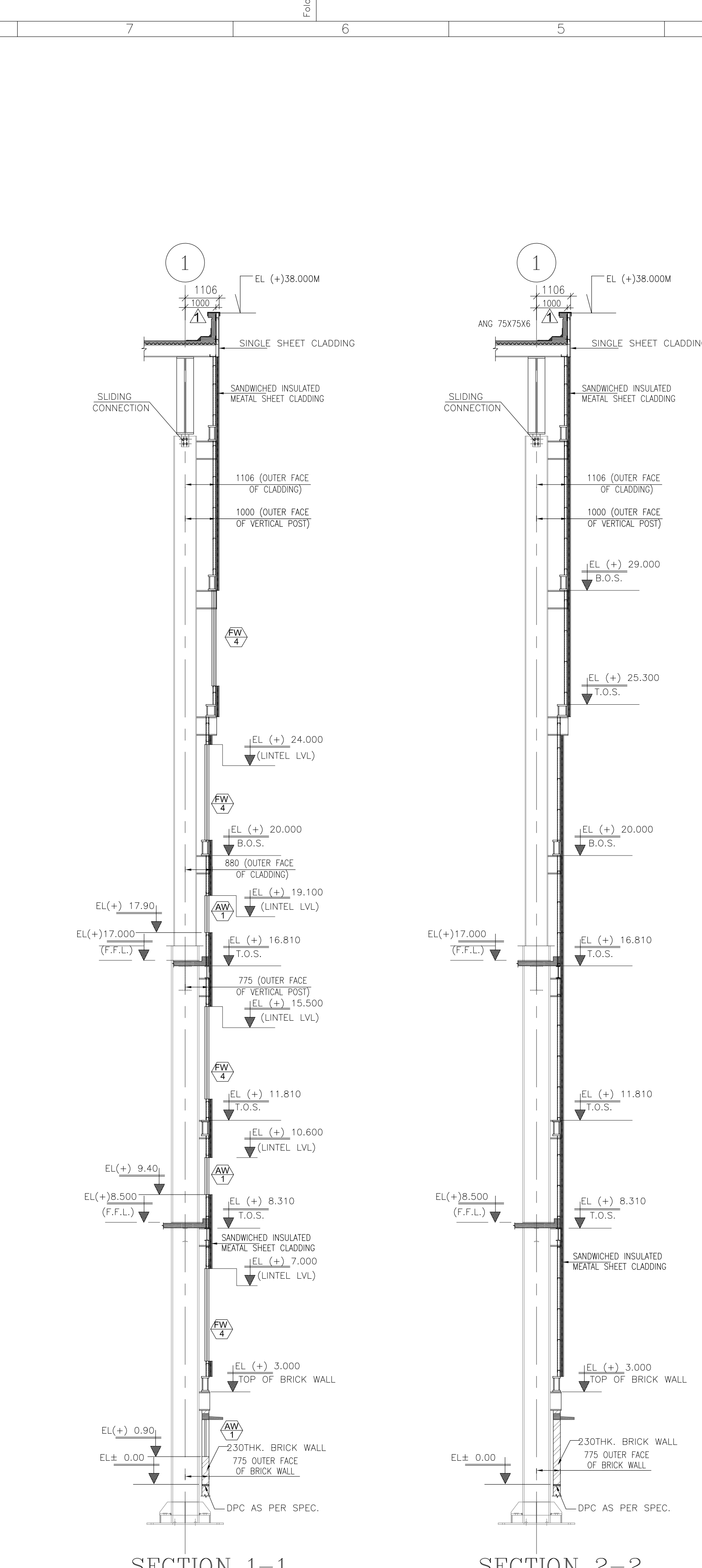
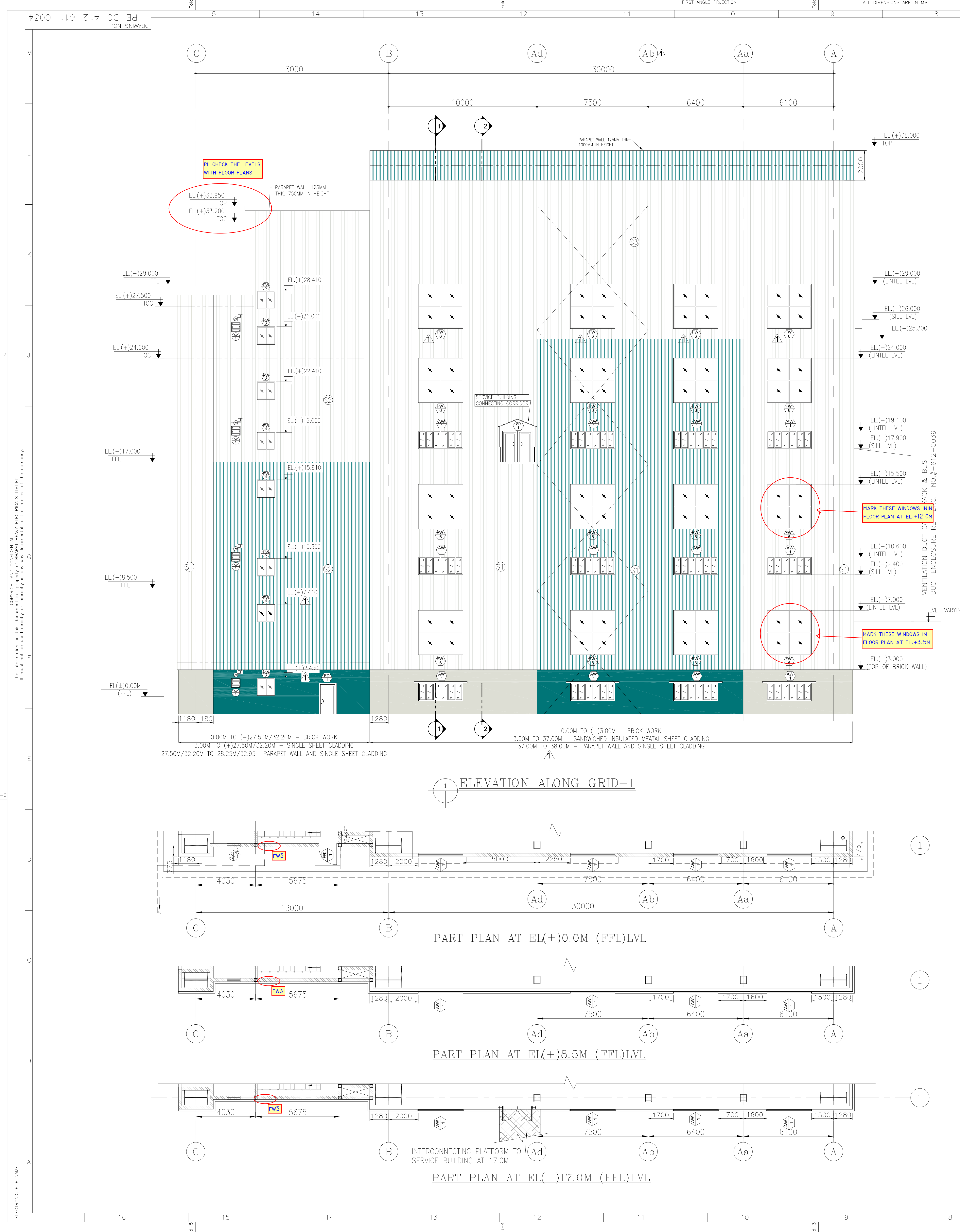
1. PE-DG-412-612-C001 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-A
2. PE-DG-412-612-C002 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-B
3. PE-DG-412-612-C003 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-C
4. PE-DG-412-612-C004 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS -D, E & F
5. PE-DG-412-612-C016 - PH BUILDING DETAILS OF STAIRCASE (A-B) SC-01 & SC-02

LEGENDS:-	
	- 245 THK FIRE BRICK WALL
	- CONCRETE HATCH
	- BRICK WALL
	- OPENING
	- GRATING FLOOR
	- CHEQUERED PLATE FLOOR
	- REMOVABLE GRATING FLOOR
	- REMOVABLE CHEQUERED PLATE FLOOR
	EL(+1)XXXX - LEVEL TAG
	ROLLING SHUTTER
	HAND RAILING
	BOP - BOTTOM OF OPENING
	ε - CENTER LINE
	EF - EXHAUST FAN
	EL - ELEVATION
	FFL - FINISHED FLOOR LEVEL
	TOC - TOP OF CONCRETE
	TOP - TOP OF CHEQUERED PLATE
	TYP - TOP OF GRATING
	UNO - UNLESS NOTED OTHERWISE

* NOTE:- FOR WALL CUT OUT, FLOOR CUTOUT REFER RESPECTIVE STRUCTURAL & ELECTRICAL, VENTILATION DRAWING

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)			
THIS DRAWING MARKED (2) IS RELEASED FOR			
☒	COMMENTS/REVISION		
☒	PLANNING/INFORMATION		
☒	CONSTRUCTION		
STAMP ALL PREVIOUS REVISION AS SUPERSEDED			
NAME	SIGNATURE	DATE	15.06.18
SOMNATH MISHRA			

PROJECT	2x660MW ENNORE SEZ SUPERCRITICAL THERMAL POWER PROJECT AT ASH DYKE OF NCTPS, CHENNAI		
OWNER	TAMILNADU GENERATION & DISTRIBUTION CORPORATION LIMITED		
OWNER'S CONSULTANT-	DESEIN PRIVATE LIMITED DESEIN HOUSE, NEW DELHI		
EPC CONTRACTOR-	BHARAT HEAVY ELECTRICALS LTD		
REVISIONS			
NO.	OF	DATE	15.06.18
REV.	DATE	ALTO	CHD
1	15.06.18	OM	A
REVISED AS PER COMMENTS RECEIVED VICE LETTER REF L/No. 563/17/004/Ennore SEZ TTP JF. PH (D.140717) & 12.12.17. & MRD. AS			
TITLE			
POWER HOUSE BUILDING			
ARCHITECTURAL REAR ELEVATION (UNIT-2)			
DEPT. SCALE: DRAWING NO. PB-DG-412-611-C033			
SHEET 2 OF 2			
REV. 0			

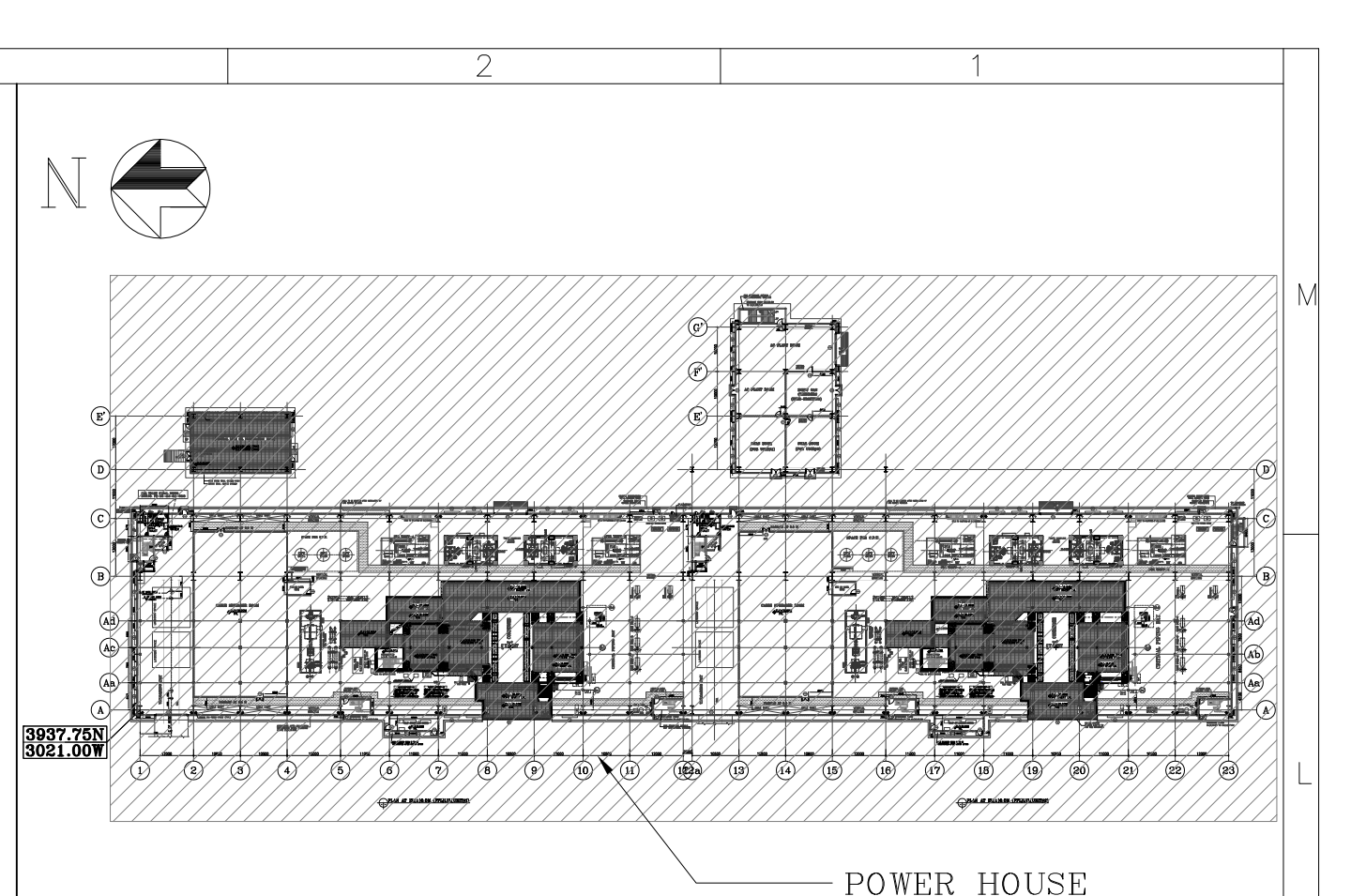


SCHEDULE OF WINDOW OPENINGS (UNIT-1)					
SYMBOL	NOS.	SILL LEVEL AT EL. ...	MASONRY OPENING		DESCRIPTION
			WIDTH	HEIGHT	
	4	(+4.000	3000	3000	ANODISED ALUMINUM FRAMED FIXED GLAZED WINDOW WITH 6MM THK. WIRED GLASS
	4	(+12.500			
	4	(+21.000			
	4	(+26.000			
	8	AS/ELE.	1200	1200	ANODISED ALUMINUM FRAMED FIXED GLAZED WINDOW WITH 6MM THK. WIRED GLASS

NOTE: SCHEDULE OF WINDOWS OPENINGS THAT ARE NOT VISIBLE IN PLANS ARE COVERED UNDER ELEVATION DWG. AND SHOWN IN ABOVE TABLE, FOR OTHER WINDOW AND DOOR OPENINGS RESPECTIVE FLOOR PLAN DRAWINGS SHALL BE REFERRED.

LEGEND	
	OUTER FACE OF WALL & CLADDING FROM GRID-1
	925 MM
	265 MM
	1106 MM

S.NO	LEGEND	DESCRIPTION
1		TO BE MATCHED WITH RAL 9018 GREY (PLASTERED SURFACE)
2		TO BE MATCHED WITH RAL 5021 WATER BLUE (PLASTERED SURFACE)
3		RAL 9018 GREY (METAL CLADDING)
4		RAL 5021 WATER BLUE (METAL CLADDING)



- ### NOTES:-
- ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
 - ALL ELEVATIONS ARE REFERRED TO POWER HOUSE FINISHED GROUND FLOOR ELEVATION ± 0.00M WHICH CORRESPONDS TO RL(+) 10.00M
 - FOR TG COLS & FLOOR FRAMING REFER CIVIL DRGS SEPARATELY.
 - UNLESS NOTED OTHERWISE WINDOW / DOOR/ ROLLING SHUTTER LOCATION SHALL BE AT CENTER BETWEEN GRIDS.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, SPECIFICATION AND SCHEDULE OF ITEMS.

- ### REFERENCE DRGS.:-
- PE-DG-412-100-M001 - PLOT PLAN
 - PE-DG-412-100-M003-R4 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 0.0M
 - PE-DG-412-100-M004-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 8.50M
 - PE-DG-412-100-M005-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 17.0M
 - PE-DG-412-100-M006-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 24.0M/ 25.5M
 - PE-DG-412-100-M007-R2 - CROSS SECTION OF MAIN PLANT
- ### ARCHITECTURAL STANDARD DRAWINGS:-
1. PE-DG-412-611-C031 - PH BUILDING-GEN. NOTES & STD. DETAILS FOR ARCH. WORKS
- ### ARCHITECTURAL DRAWINGS:-
- PE-DG-412-611-C035 & C036-R1 - PH BUILDING - FLOOR PLAN AT EL(±)0.00M
 - PE-DG-412-611-C039-R1 - PH BUILDING - FLOOR PLAN AT EL(+3.50M
 - PE-DG-412-611-C040 & C041-R1 - PH BUILDING - FLOOR PLAN AT EL(+8.50M
 - PE-DG-412-611-C042-R1 - PH BUILDING - FLOOR PLAN AT EL(+12.00M
 - PE-DG-412-611-C043 & C044-R1 - PH BUILDING - FLOOR PLAN AT EL(+17.00M
 - PE-DG-412-611-C052 & C053-R1 - PH BUILDING - FLOOR PLAN AT EL(+24.00M
 - PE-DG-412-611-C054-R1 - PH BUILDING - FLOOR PLAN AT EL(+27.50M
 - PE-DG-412-611-C055-R1 - PH BUILDING - FLOOR PLAN AT EL(+32.50M
 - PE-DG-412-611-C056-R1 - PH BUILDING - ROOF PLAN
 - PE-DG-412-611-C032-R1 - PH BUILDING - ARCHITECTURAL FRONT ELEVATION
 - PE-DG-412-611-C033-R1 - PH BUILDING - ARCHITECTURAL REAR ELEVATION
 - PE-DG-412-611-C034-R1-Sheet2of2 - PH BUILDING - ARCH. ELEVATION ALONG GABLE END

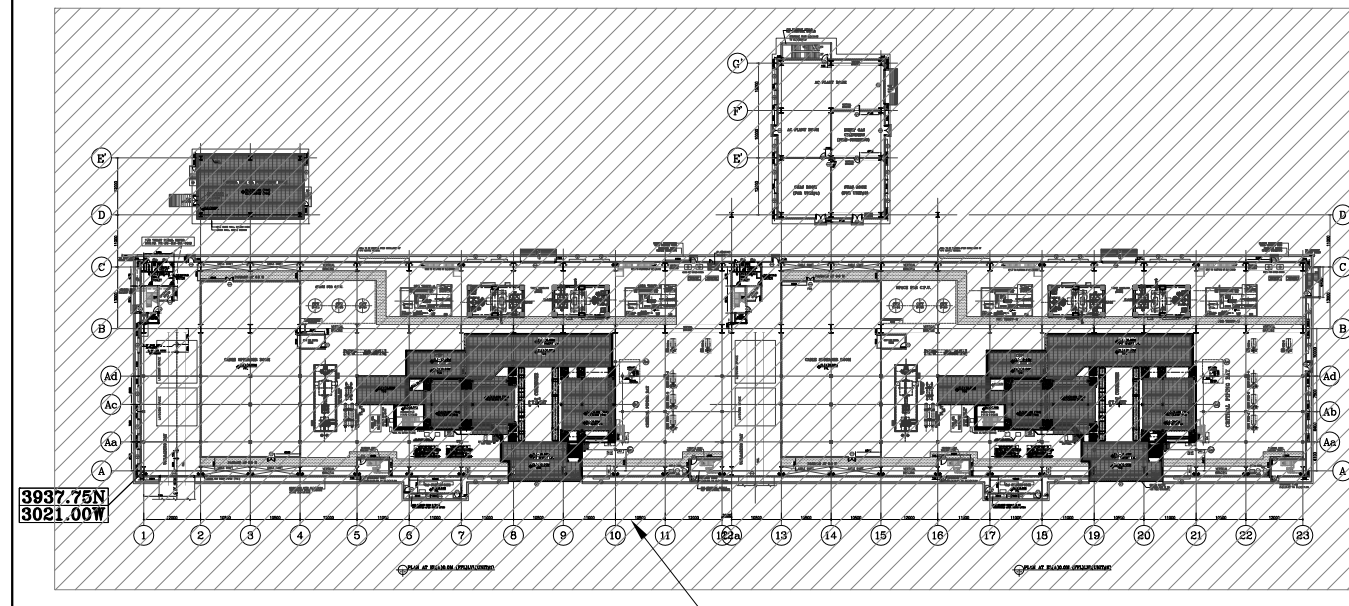
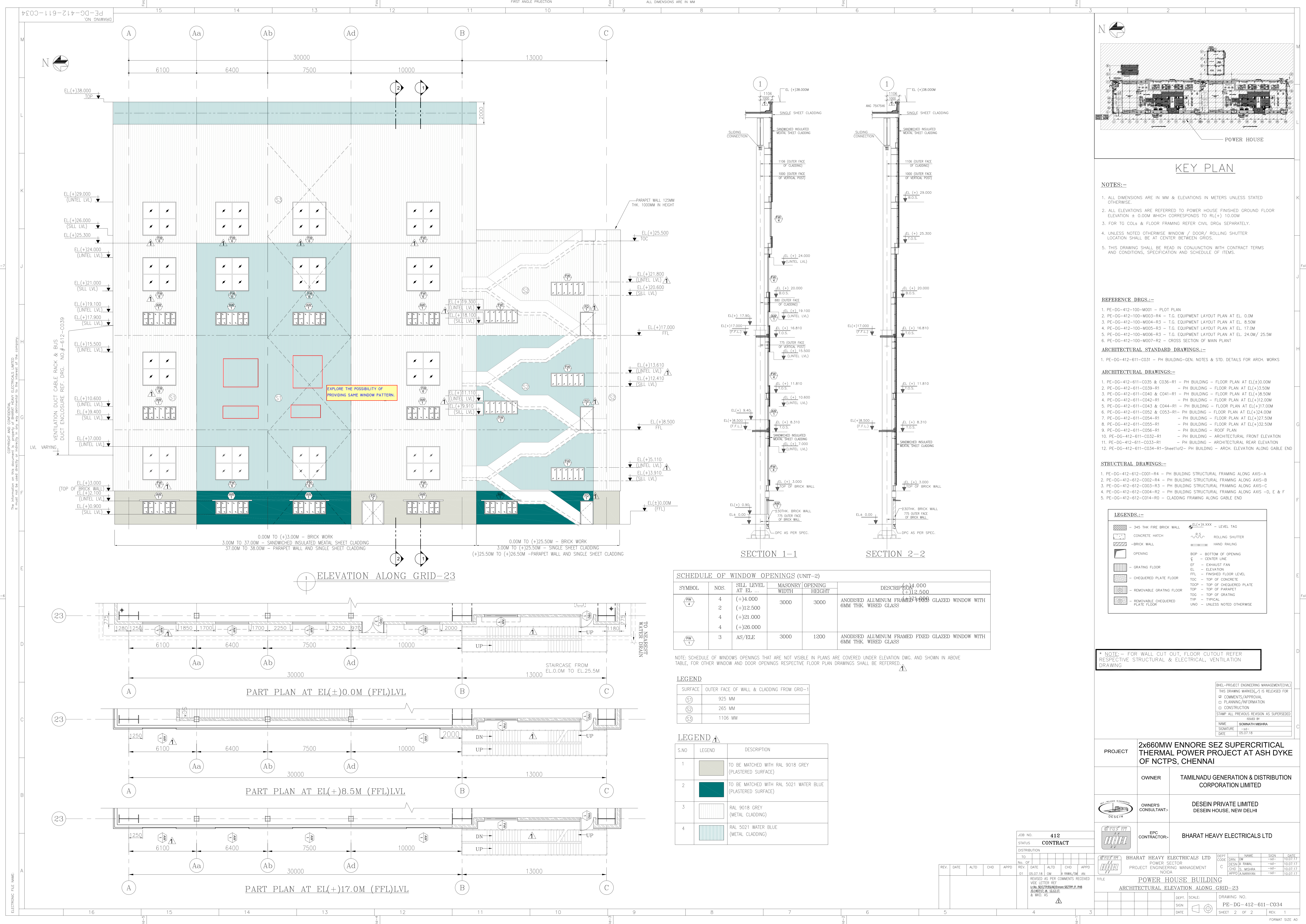
- ### STRUCTURAL DRAWINGS:-
- PE-DG-412-612-C001-R4 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-A
 - PE-DG-412-612-C002-R4 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-B
 - PE-DG-412-612-C003-R3 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-C
 - PE-DG-412-612-C004-R2 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS -D, E & F
 - PE-DG-412-612-C004-R0 - CLADDING FRAMING ALONG GABLE END

LEGENDS:-	
	345 THK FIRE BRICK WALL
	CONCRETE HATCH
	BRICK WALL
	OPENING
	CHEQUERED PLATE FLOOR
	REMOVABLE GRATING FLOOR
	REMOVABLE CHEQUERED PLATE FLOOR
	EL(±)X.XXX - LEVEL TAG
	ROLLING SHUTTER
	HAND RAILING
	BOP - BOTTOM OF OPENING
	E - CENTER LINE
	EF - EXHAUST FAN
	EL - ELEVATION
	FFL - FINISHED FLOOR LEVEL
	TOP - TOP OF CONCRETE
	TOP - TOP OF CHEQUERED PLATE
	TOP - TOP OF PARAPET
	TG - TOP OF GRATING
	TP - TYPICAL
	UNO - UNLESS NOTED OTHERWISE

* NOTE:- FOR WALL CUT OUT, FLOOR CUTOUT REFER RESPECTIVE STRUCTURAL & ELECTRICAL, VENTILATION DRAWING

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)
THIS DRAWING MARKED/IS RELEASED FOR
2 COMMENTS/REVISIONS
3 PLANNING/INFORMATION
4 CONSTRUCTION
STAMP ALL PREVIOUS REVISION AS SUPERSEDED
ISSUED BY
NAME SOMNATH MISHRA
SIGNATURE
DATE 05.07.18

PROJECT	2x660MW ENNORE SEZ SUPERCRITICAL THERMAL POWER PROJECT AT ASH DYKE OF NCTPS, CHENNAI
OWNER	TAMILNADU GENERATION & DISTRIBUTION CORPORATION LIMITED
OWNER'S CONSULTANT	DESEIN PRIVATE LIMITED DESEIN HOUSE, NEW DELHI
EPC CONTRACTOR	BHARAT HEAVY ELECTRICALS LTD
DEPT	BHARAT HEAVY ELECTRICALS LTD POWER SECTOR PROJECT ENGINEERING MANAGEMENT NOIDA
DRN	NAME C DRN A. RAJAL APPD A. RAJAL
DATE	10.07.17 10.07.17 10.07.17
TITLE	POWER HOUSE BUILDING ARCHITECTURAL ELEVATION ALONG GRID-1
DEPT	SCALE
SIGN	DRAWING NO. PE-DG-412-611-C034
DATE	SHEET 1 OF 2 REV. 1



POWER HOUSE

KEY PLAN

- NOTES:-**
- ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
 - ALL ELEVATIONS ARE REFERRED TO POWER HOUSE FINISHED GROUND FLOOR ELEVATION ± 0.00 WHICH CORRESPONDS TO RL(+) 10.00M.
 - FOR TG COLS & FLOOR FRAMING REFER CIVIL DRGS SEPARATELY.
 - UNLESS NOTED OTHERWISE WINDOW / DOOR/ ROLLING SHUTTER LOCATION SHALL BE AT CENTER BETWEEN GRIDS.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, SPECIFICATION AND SCHEDULE OF ITEMS.

REFERENCE DRGS.:-

- PE-DG-412-100-M001 - PLOT PLAN
- PE-DG-412-100-M003-R4 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 0.0M
- PE-DG-412-100-M004-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 8.50M
- PE-DG-412-100-M005-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 17.0M
- PE-DG-412-100-M006-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 24.0M/ 25.5M
- PE-DG-412-100-M007-R2 - CROSS SECTION OF MAIN PLANT

ARCHITECTURAL STANDARD DRAWINGS:-

- PE-DG-412-611-C031 - PH BUILDING-GEN. NOTES & STD. DETAILS FOR ARCH. WORKS

ARCHITECTURAL DRAWINGS:-

- PE-DG-412-611-C035 & C036-R1 - PH BUILDING - FLOOR PLAN AT EL(+10.00M)
- PE-DG-412-611-C039-R1 - PH BUILDING - FLOOR PLAN AT EL(+13.50M)
- PE-DG-412-611-C040 & C041-R1 - PH BUILDING - FLOOR PLAN AT EL(+18.50M)
- PE-DG-412-611-C042-R1 - PH BUILDING - FLOOR PLAN AT EL(+12.00M)
- PE-DG-412-611-C043 & C044-R1 - PH BUILDING - FLOOR PLAN AT EL(+17.00M)
- PE-DG-412-611-C052 & C053-R1 - PH BUILDING - FLOOR PLAN AT EL(+124.00M)
- PE-DG-412-611-C054-R1 - PH BUILDING - FLOOR PLAN AT EL(+127.50M)
- PE-DG-412-611-C055-R1 - PH BUILDING - FLOOR PLAN AT EL(+132.50M)
- PE-DG-412-611-C056-R1 - PH BUILDING - ROOF PLAN
- PE-DG-412-611-C032-R1 - PH BUILDING - ARCHITECTURAL FRONT ELEVATION
- PE-DG-412-611-C033-R1 - PH BUILDING - ARCHITECTURAL REAR ELEVATION
- PE-DG-412-611-C034-R1-Sheetof2 - PH BUILDING - ARCH. ELEVATION ALONG CABLE END

STRUCTURAL DRAWINGS:-

- PE-DG-412-612-C001-R4 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-A
- PE-DG-412-612-C002-R4 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-B
- PE-DG-412-612-C003-R3 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-C
- PE-DG-412-612-C004-R2 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS -D, E & F
- PE-DG-412-612-C014-R0 - CLADDING STRUCTURAL ALONG GABLE END

LEGENDS:-	
	EL(+X)XXXX - LEVEL TAG
	BOP - BOTTOM OF OPENING
	EL - ELEVATION
	EF - EXHAUST FAN
	EL - ELEVATION
	FFL - FINISHED FLOOR LEVEL
	TOC - TOP OF CONCRETE
	TOCP - TOP OF CHEQUERED PLATE
	TOP - TOP OF PARAPET
	TG - TOP OF GRATING
	TYP - TYPICAL
	UNO - UNLESS NOTED OTHERWISE

* NOTE:- FOR WALL CUT OUT, FLOOR CUTOUT REFER RESPECTIVE STRUCTURAL & ELECTRICAL, VENTILATION DRAWING

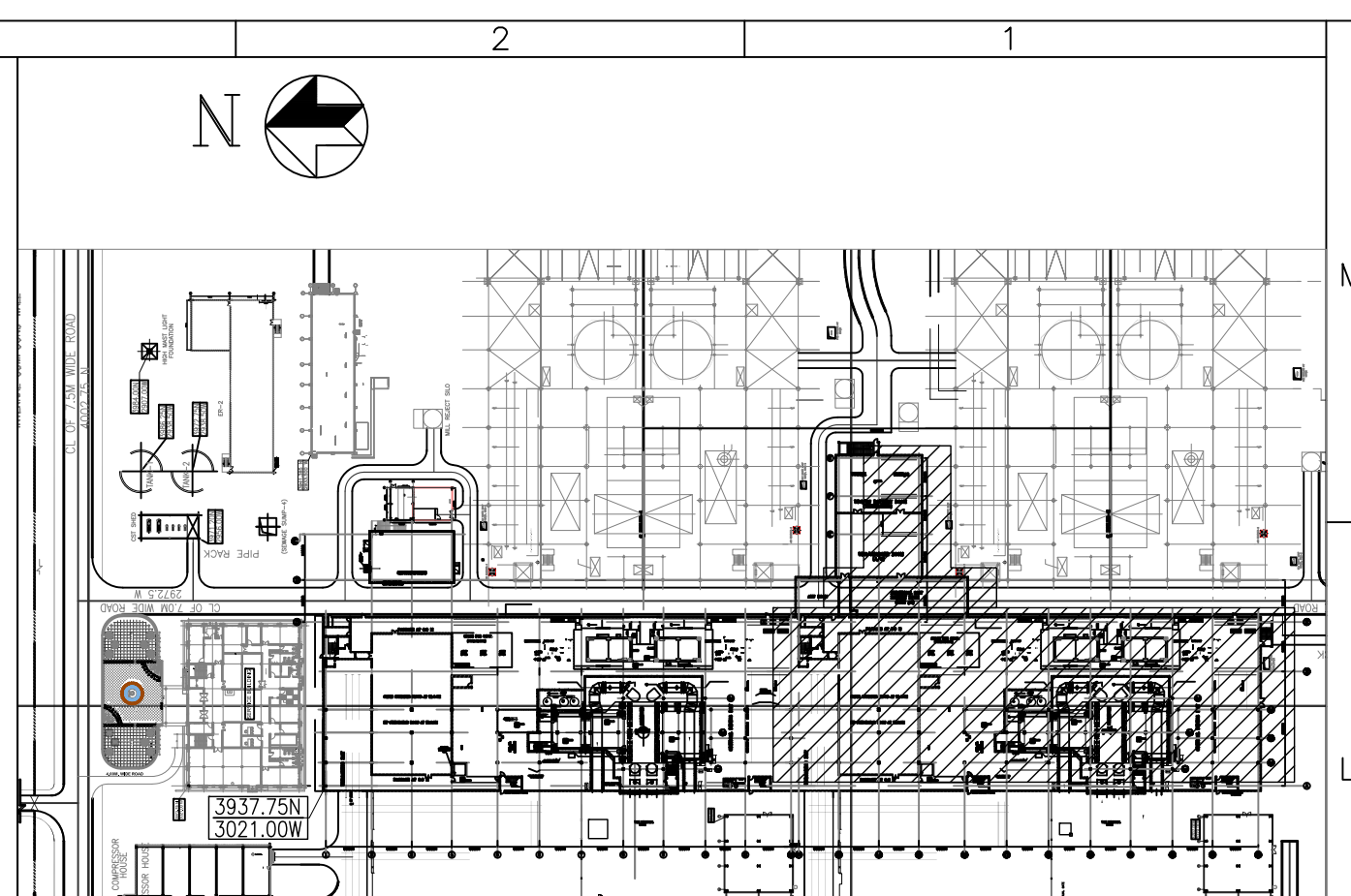
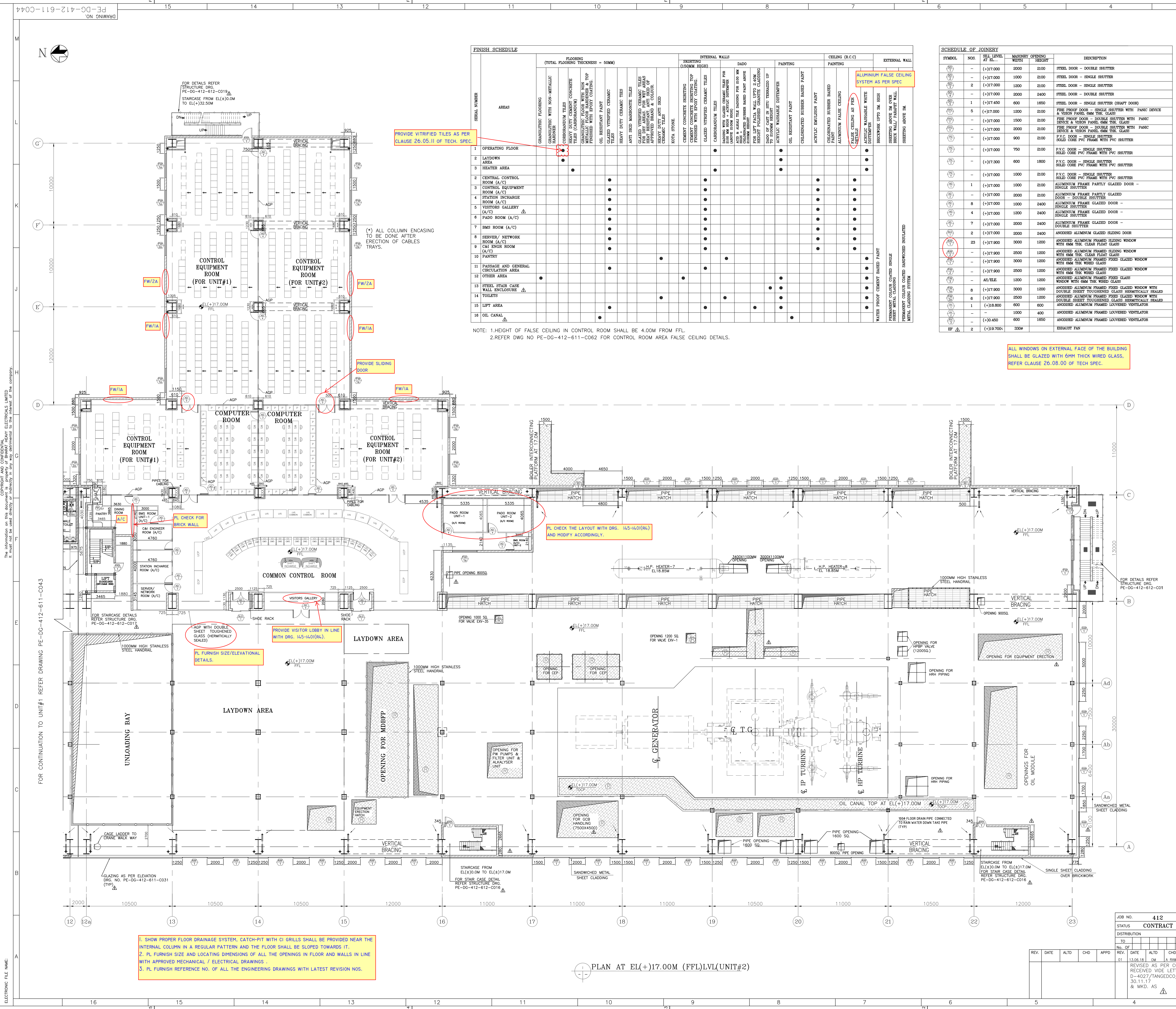
SCHEDULE OF WINDOW OPENINGS (UNIT-2)					
SYMBOL	NOS.	SILL LEVEL AT EL. ...	MASONRY	OPENING	DESCRIPTION
			WIDTH	HEIGHT	
	4	(+4.000	3000	3000	(+4.000
	2	(+12.500			(+12.500
	4	(+21.000			(+21.000
	4	(+26.000			(+26.000
	3	AS/ELE	3000	1200	ANODISED ALUMINUM FRAMED FIXED GLAZED WINDOW WITH 6MM THK. WIRED GLASS

NOTE: SCHEDULE OF WINDOWS OPENINGS THAT ARE NOT VISIBLE IN PLANS ARE COVERED UNDER ELEVATION DWG. AND SHOWN IN ABOVE TABLE, FOR OTHER WINDOW AND DOOR OPENINGS RESPECTIVE FLOOR PLAN DRAWINGS SHALL BE REFERRED.

LEGEND	
SURFACE	OUTER FACE OF WALL & CLADDING FROM GRID-1
	925 MM
	265 MM
	1106 MM

S.NO	LEGEND	DESCRIPTION
1		TO BE MATCHED WITH RAL 9018 GREY (PLASTERED SURFACE)
2		TO BE MATCHED WITH RAL 5021 WATER BLUE (PLASTERED SURFACE)
3		RAL 9018 GREY (METAL CLADDING)
4		RAL 5021 WATER BLUE (METAL CLADDING)

JOB NO. 412	
STATUS CONTRACT	
DISTRIBUTION	
TO	
REV.	DATE
01	05.07.18
REVISED AS PER COMMENTS RECEIVED	
VIA. SECTIONAL DRAWING SET UP IN PH	
C. MUD. NO.	
Bharat Heavy Electricals Ltd	
POWER SECTOR	
PROJECT ENGINEERING MANAGEMENT	
NOIDA	
TITLE	
POWER HOUSE BUILDING	
ARCHITECTURAL ELEVATION ALONG GRID-23	
DEPT.	SCALE:
DRN	1:100
DES	1:100
CHK	1:100
APP	1:100
DRAWING NO.	
PE-DG-412-611-C034	
SHEET 2 OF 2	
REV. 1	
FORMAT SIZE A0	



KEY PLAN

NOTES:-

- ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
- ALL ELEVATIONS ARE REFERRED TO POWER HOUSE FINISHED GROUND FLOOR ELEVATION ± 0.00M WHICH CORRESPONDS TO RL(+1) 10.00M.
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- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, SPECIFICATION AND SCHEDULE OF ITEMS.

REFERENCE DRGS.:-

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- PE-DG-412-100-M003-R5 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 0.00M
- PE-DG-412-100-M004-R4 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 8.50M
- PE-DG-412-100-M005-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 17.00M
- PE-DG-412-100-M006-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 24.00M / 25.50M
- PE-DG-412-100-M007-R2 - CROSS SECTION OF MAIN PLANT

ARCHITECTURAL STANDARD DRAWINGS:-

- PE-DG-412-611-C031 - PH BUILDING-GEN. NOTES & STD. DETAILS FOR ARCH. WORKS

ARCHITECTURAL DRAWINGS:-

- PE-DG-412-611-C035 & C036-R1 - PH BUILDING - FLOOR PLAN AT EL(+1)0.00M
- PE-DG-412-611-C039-R1 - PH BUILDING - FLOOR PLAN AT EL(+1)8.50M
- PE-DG-412-611-C040 & C041-R1 - PH BUILDING - FLOOR PLAN AT EL(+1)12.00M
- PE-DG-412-611-C042-R1 - PH BUILDING - FLOOR PLAN AT EL(+1)17.00M
- PE-DG-412-611-C043 & C044-R1 - PH BUILDING - FLOOR PLAN AT EL(+1)24.00M
- PE-DG-412-611-C052 & C053-R1 - PH BUILDING - FLOOR PLAN AT EL(+1)24.00M
- PE-DG-412-611-C054-R1 - PH BUILDING - FLOOR PLAN AT EL(+1)27.50M
- PE-DG-412-611-C055-R1 - PH BUILDING - FLOOR PLAN AT EL(+1)32.50M
- PE-DG-412-611-C056-R1 - PH BUILDING - ROOF PLAN

STRUCTURAL DRAWINGS:-

- PE-DG-412-612-C001-R4 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-A
- PE-DG-412-612-C002-R4 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-B
- PE-DG-412-612-C003-R3 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-C
- PE-DG-412-612-C004-R2 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-D, E & F

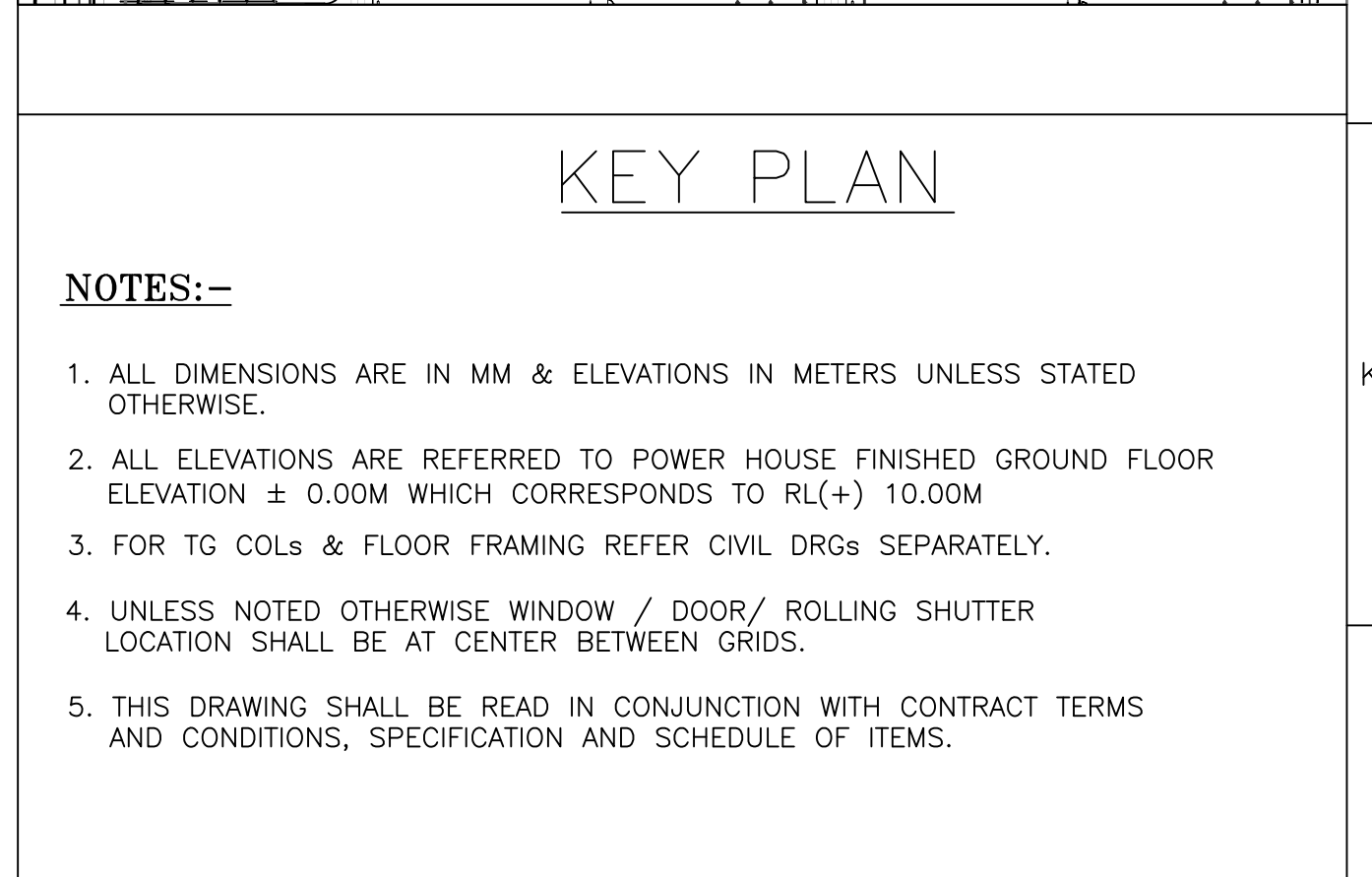
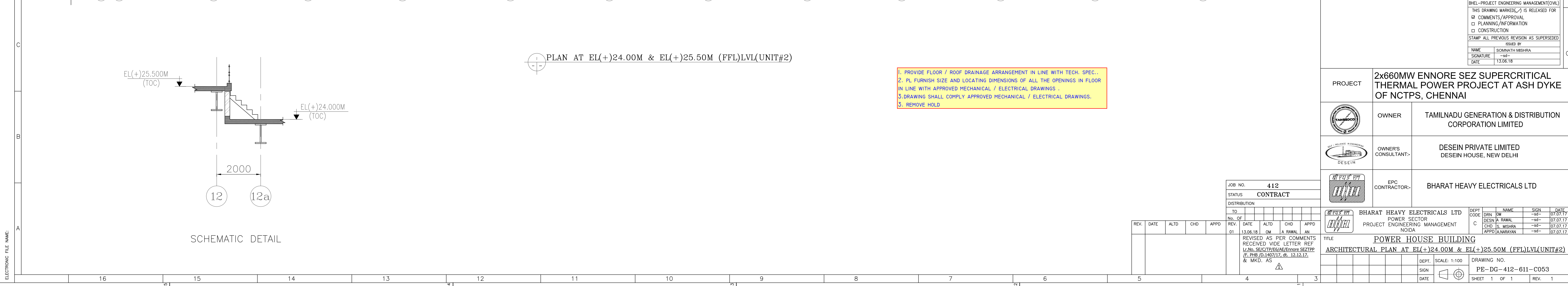
LEGENDS:-

- 345 THK FIRE BRICK WALL
- CONCRETE HATCH
- BRICK WALL
- OPENING
- GRATING FLOOR
- CHEQUERED PLATE FLOOR
- REMOVABLE GRATING FLOOR
- REMOVABLE CHEQUERED PLATE FLOOR
- EL(+1)XXXX - LEVEL TAG
- ROLLING SHUTTER
- CENTER LINE
- EXHAUST FAN
- ELEVATION
- FFL - FINISHED FLOOR LEVEL
- TOC - TOP OF CONCRETE
- TOP - TOP OF CHEQUERED PLATE
- TOP - TOP OF PARAPET
- TOG - TOP OF GRATING
- TYP - TYPICAL
- UNO - UNLESS NOTED OTHERWISE

ALL ELECTRICAL AND VENTILATION CUTOUT & OPENING DETAILS SHALL BE REFERRED FROM RESPECTIVE DRAWINGS BEFORE EXECUTION

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)	
THIS DRAWING MARKED (P) IS RELEASED FOR COMMENTS/APPROVAL	
CL - COMMENTS/APPROVAL	
PI - PLANNING/INFORMATION	
CO - CONSTRUCTION	
STAMP ALL PREVIOUS REVISION AS SUPERSEDED	
ISSUED BY	DATE
NAME: SOMNATH MISHRA	13.06.18
SIGNATURE	
DATE	

PROJECT		2x660MW ENNORE SEZ SUPERCritical THERMAL POWER PROJECT AT ASH DYKE OF NCTPS, CHENNAI					
		OWNER	TAMILNADU GENERATION & DISTRIBUTION CORPORATION LIMITED				
		OWNER'S CONSULTANT:-	DESEIN PRIVATE LIMITED DESEIN HOUSE, NEW DELHI				
		EPC CONTRACTOR:-	BHARAT HEAVY ELECTRICALS LTD				
		BHARAT HEAVY ELECTRICALS LTD POWER SECTOR PROJECT ENGINEERING MANAGEMENT NOIDA		DEPT CODE	NAME DESEIN A. RAWAL CHD IS. MISRA APPOJ. BANARJAY	SIGN -RS- -RS- -RS-	DATE 07.07.17 07.07.17 07.07.17
TITLE		POWER HOUSE BUILDING					
ARCHITECTURAL PLAN AT EL+(+17.00M(FFI))LVL(UNIT#2)							
DEPT.		SCALE: 1:100		DRAWING NO.			
DATE				PE- DG- 412-611-C044			
SHEET		1 OF 1		REV.		1	



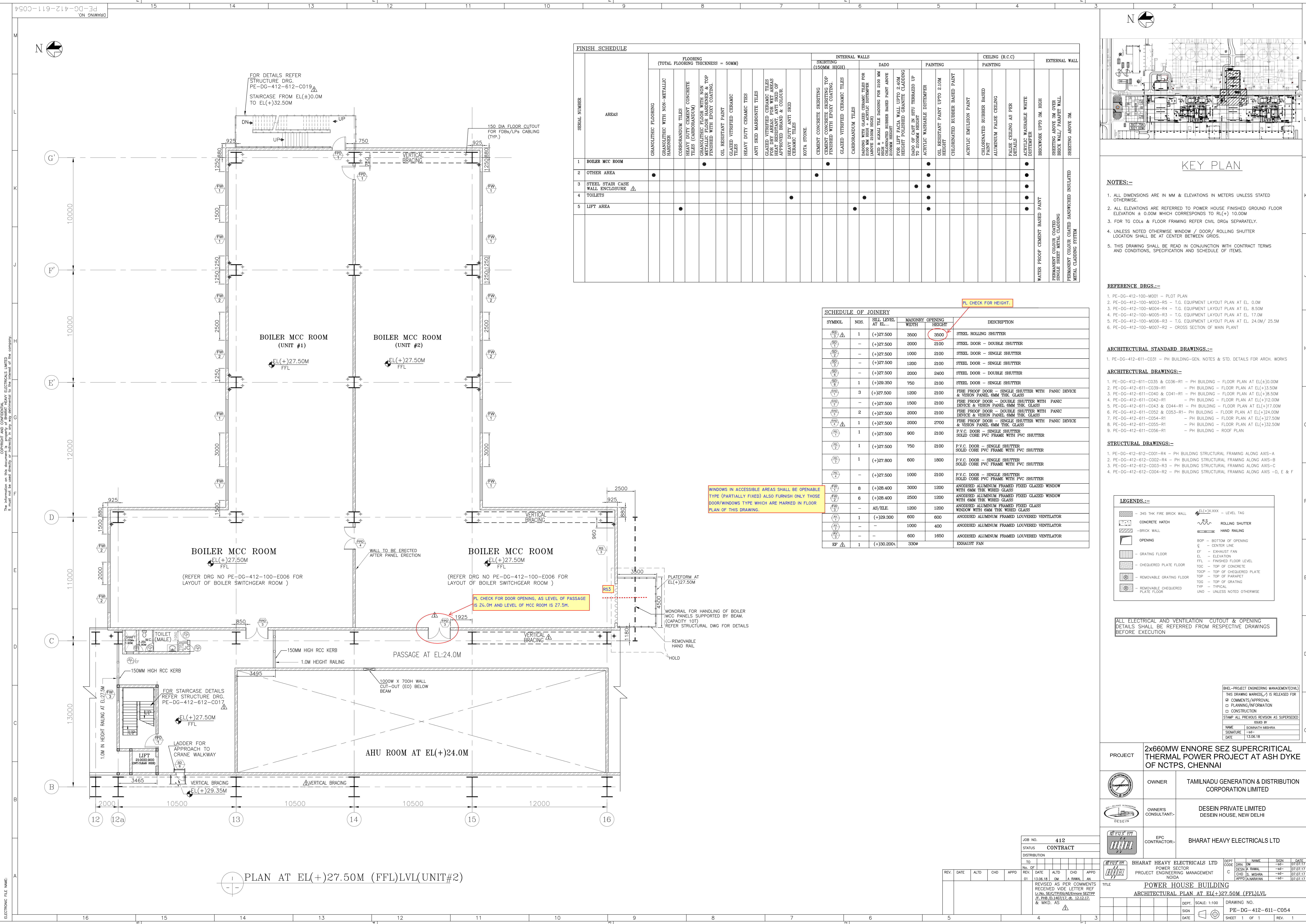
(*) AIR TIGHT DOOR TO BE PROVIDED FOR AHU ROOM

Architectural drawing showing a cross-section of a platform. The drawing includes a vertical dimension line on the left side, labeled '925'. Below this, there is a horizontal dimension line labeled '1000'. The drawing shows a rectangular structure with a flat top surface and a vertical side wall. A note in the bottom right corner, enclosed in a red box, reads: 'AS PER DRG. M-006', 'PLATFORM IS AT LVL', 'MODIFY ACCORDINGL'.

ALL ELECTRICAL AND VENTILATION CUTOUT & PIPE OPENING DETAILS SHALL BE REFERRED FROM RESPECTIVE DRAWINGS BEFORE EXECUTION

PROJECT	26x60MM ENNORE SEZ SUPERCIRCUITAL THERMAL POWER PROJECT AT ASH DYKE OF NCTPS, CHENNAI				
	OWNER	TAMILNADU GENERATION & DISTRIBUTION CORPORATION LIMITED			
	OWNER'S CONSULTANT	DESEIN PRIVATE LIMITED DESEIN HOUSE, NEW DELHI			
	EPC CONTRACTOR	BHARAT HEAVY ELECTRICALS LTD			
	BHARAT HEAVY ELECTRICALS LTD POWER SECTOR PROJECT ENGINEERING MANAGEMENT NOIDA	DEPT CODE	NAME DRN SW DESIN & RABAL CHD S. MISHRA APPS & RABAL	SIGN -SF- -SF- -SF- -SF-	DATE 07.07 07.07 07.07 07.07
FILE POWER HOUSE BUILDING					
ARCHITECTURAL PLAN AT EL(+)=24.00M & EL(+)=25.50M (FFL)/LV/LIN/UNIT#					
DEPT.	SCALE: 1:100	DRAWING NO.			
SIGN		PEE - 412 - 611 - C053			
DATE		SHEET	1	OF	1
		REV.			

FORMAT SIZE A0



FINISH SCHEDULE																					
SERIAL NUMBER	AREAS	FLOORING (TOTAL FLOORING THICKNESS = 50MM)										INTERNAL WALLS					CEILING (R.C.C)		EXTERNAL WALL		
		GRANOLITHIC WITH NON-METALLIC HARDNER	COROBORANDUM TILES	HEAVY DUTY CEMENT CONCRETE TILES (CARBORANDUM)	GRANOLITHIC FLOOR WITH NON METALLIC FLOOR HARDENER & TOP FINISHED WITH EPOXY COATING.	OIL RESISTANT PAINT	GLAZED VITRIFIED CERAMIC TILES	HEAVY DUTY CERAMIC TILES	ANTI SKID MARGONITE TILES	GLAZED VITRIFIED CERAMIC TILES FOR WET AREAS	HEAVY DUTY ANTI SKID CERAMIC TILES	KOTA STONE	CEMENT CONCRETE SKIRTING FINISHED WITH EPOXY COATING.	GLAZED VITRIFIED CERAMIC TILES	CARBORANDUM TILES	DADOING WITH GLAZED CERAMIC TILES FOR 2100 MM HIGH * ACRYLIC DISTEMPER (ABOVE 2100MM HIGH)	DADOING WITH GLAZED CERAMIC TILES FOR 2100 MM HIGH * ACRYLIC DISTEMPER (ABOVE 2100MM HIGH)	PAINTING	PAINTING	PAINTING	PAINTING
1	BOILER MCC ROOM																				
2	OTHER AREA																				
3	STEEL STAIR CASE WALL ENCLOSURE																				
4	TOILETS																				
5	LIFT AREA																				

SCHEDULE OF JOINERY						
SYMBOL	NOS.	SILL LEVEL AT EL...	MASONRY OPENING WIDTH	HEIGHT	DESCRIPTION	
RS	1	(+27.500	3500	3500	STEEL ROLLING SHUTTER	
SD	-	(+27.500	2000	2100	STEEL DOOR - DOUBLE SHUTTER	
SD	-	(+27.500	1000	2100	STEEL DOOR - SINGLE SHUTTER	
SD	-	(+27.500	1200	2100	STEEL DOOR - SINGLE SHUTTER	
SD	-	(+27.500	2000	2400	STEEL DOOR - DOUBLE SHUTTER	
SD	1	(+29.350	750	2100	STEEL DOOR - SINGLE SHUTTER	
FPD	3	(+27.500	1200	2100	FIRE PROOF DOOR - SINGLE SHUTTER WITH PANIC DEVICE & VISION PANEL 6MM THK GLASS	
FPD	-	(+27.500	1500	2100	FIRE PROOF DOOR - DOUBLE SHUTTER WITH PANIC DEVICE & VISION PANEL 6MM THK GLASS	
FPD	2	(+27.500	2000	2100	FIRE PROOF DOOR - DOUBLE SHUTTER WITH PANIC DEVICE & VISION PANEL 6MM THK GLASS	
FPD	1	(+27.500	2000	2700	FIRE PROOF DOOR - SINGLE SHUTTER WITH PANIC DEVICE & VISION PANEL 6MM THK GLASS	
PD	1	(+27.500	900	2100	P.V.C. DOOR - SINGLE SHUTTER SOLID CORE PVC FRAME WITH PVC SHUTTER	
PD	1	(+27.500	750	2100	P.V.C. DOOR - SINGLE SHUTTER SOLID CORE PVC FRAME WITH PVC SHUTTER	
PD	1	(+27.800	600	1800	P.V.C. DOOR - SINGLE SHUTTER SOLID CORE PVC FRAME WITH PVC SHUTTER	
PD	-	(+27.500	1000	2100	P.V.C. DOOR - SINGLE SHUTTER SOLID CORE PVC FRAME WITH PVC SHUTTER	
FW	8	(+28.400	3000	1200	ANODISED ALUMINUM FRAMED FIXED GLAZED WINDOW WITH 6MM THK WIRED GLASS	
FW	6	(+28.400	2500	1200	ANODISED ALUMINUM FRAMED FIXED GLAZED WINDOW WITH 6MM THK WIRED GLASS	
FW	-	AS/ELE	1200	1200	ANODISED ALUMINUM FRAMED FIXED GLAZED WINDOW WITH 6MM THK WIRED GLASS	
AV	1	(+28.300	600	600	ANODISED ALUMINUM FRAMED LOUVERED VENTILATOR	
AV	-	-	1000	400	ANODISED ALUMINUM FRAMED LOUVERED VENTILATOR	
AV	-	-	600	1650	ANODISED ALUMINUM FRAMED LOUVERED VENTILATOR	
EP	1	(+30.200	3300		EXHAUST FAN	

KEY PLAN

NOTES:-

- ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
- ALL ELEVATIONS ARE REFERRED TO POWER HOUSE FINISHED GROUND FLOOR ELEVATION ± 0.00M WHICH CORRESPONDS TO RL(+) 10.00M
- FOR TG COLS & FLOOR FRAMING REFER CIVIL DRGS SEPARATELY.
- UNLESS NOTED OTHERWISE WINDOW / DOOR/ ROLLING SHUTTER LOCATION SHALL BE AT CENTER BETWEEN GRIDS.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, SPECIFICATION AND SCHEDULE OF ITEMS.

REFERENCE DRGS:-

- PE-DG-412-100-M001 - PLOT PLAN
- PE-DG-412-100-M003-R5 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 0.00M
- PE-DG-412-100-M004-R4 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 8.50M
- PE-DG-412-100-M005-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 17.00M
- PE-DG-412-100-M006-R3 - T.G. EQUIPMENT LAYOUT PLAN AT EL. 24.00M / 25.5M
- PE-DG-412-100-M007-R2 - CROSS SECTION OF MAIN PLANT

ARCHITECTURAL STANDARD DRAWINGS:-

- PE-DG-412-611-C031 - PH BUILDING-GEN. NOTES & STD. DETAILS FOR ARCH. WORKS

ARCHITECTURAL DRAWINGS:-

- PE-DG-412-611-C035 & C036-R1 - PH BUILDING - FLOOR PLAN AT EL(+0.00M
- PE-DG-412-611-C039-R1 - PH BUILDING - FLOOR PLAN AT EL(+3.50M
- PE-DG-412-611-C040 & C041-R1 - PH BUILDING - FLOOR PLAN AT EL(+8.50M
- PE-DG-412-611-C042-R1 - PH BUILDING - FLOOR PLAN AT EL(+12.00M
- PE-DG-412-611-C043 & C044-R1 - PH BUILDING - FLOOR PLAN AT EL(+17.00M
- PE-DG-412-611-C052 & C053-R1 - PH BUILDING - FLOOR PLAN AT EL(+24.00M
- PE-DG-412-611-C054-R1 - PH BUILDING - FLOOR PLAN AT EL(+27.50M
- PE-DG-412-611-C055-R1 - PH BUILDING - FLOOR PLAN AT EL(+32.50M
- PE-DG-412-611-C056-R1 - PH BUILDING - ROOF PLAN

STRUCTURAL DRAWINGS:-

- PE-DG-412-612-C001-R4 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-A
- PE-DG-412-612-C002-R4 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-B
- PE-DG-412-612-C003-R3 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS-C
- PE-DG-412-612-C004-R2 - PH BUILDING STRUCTURAL FRAMING ALONG AXIS -D, E & F

LEGENDS:-

345 THK FIRE BRICK WALL	EL(+).XXXX - LEVEL TAG
CONCRETE HATCH	ROLLING SHUTTER
BRICK WALL	HAND RAILING
OPENING	ROP - BOTTOM OF OPENING
GRATING FLOOR	EL - CENTER LINE
CHEQUERED PLATE FLOOR	EF - EXHAUST FAN
REMOVABLE GRATING FLOOR	EL - ELEVATION
REMOVABLE CHEQUERED PLATE FLOOR	FFL - FINISHED FLOOR LEVEL
	TOP - TOP OF CONCRETE
	TOP - TOP OF PARAPET
	TOP - TOP OF GRATING
	TYP - TYPICAL
	UNO - UNLESS NOTED OTHERWISE

ALL ELECTRICAL AND VENTILATION CUTOUT & OPENING DETAILS SHALL BE REFERRED FROM RESPECTIVE DRAWINGS BEFORE EXECUTION

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)
THIS DRAWING MARKED (P) IS RELEASED FOR
COMMENTS/APPROVAL
PLANNING/INFORMATION
CONSTRUCTION
STAMP ALL PREVIOUS REVISION AS SUPERSEDED
NAME: SOMNATH MISHRA
SIGNATURE: [Signature]
DATE: 13.06.18

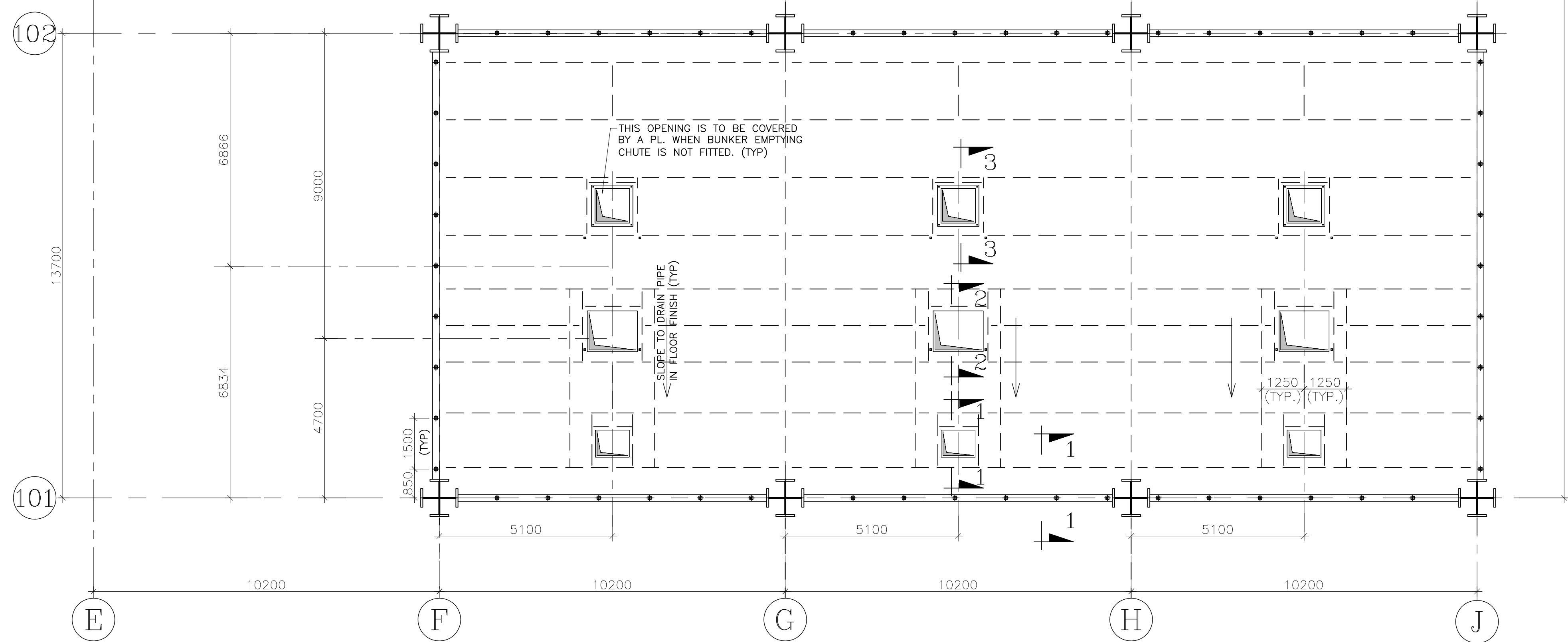
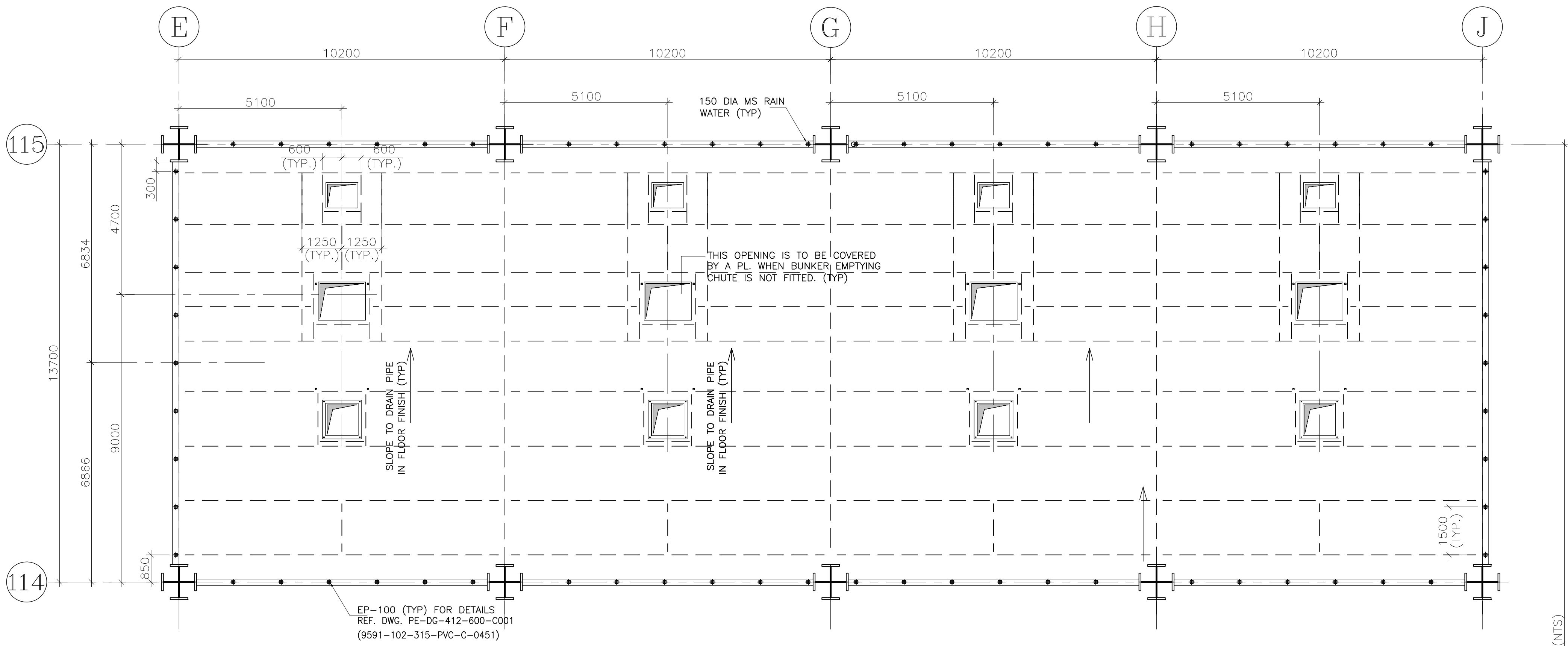
PROJECT		2x660MW ENNORE SEZ SUPERCRITICAL THERMAL POWER PROJECT AT ASH DYKE OF NCTPS, CHENNAI				
	OWNER	TAMILNADU GENERATION & DISTRIBUTION CORPORATION LIMITED				
	OWNER'S CONSULTANT-	DESEIN PRIVATE LIMITED DESEIN HOUSE, NEW DELHI				
	EPC CONTRACTOR:-	BHARAT HEAVY ELECTRICALS LTD				
	BHARAT HEAVY ELECTRICALS LTD POWER SECTOR PROJECT ENGINEERING MANAGEMENT NOIDA		DEPT C	NAME DRN V. RAJAL DESIGN A. RAJAL CHD IS. MISHRA APPD A. NARAYAN	SIGN -SE- -SE- -SE- -SE-	DATE 07.07.17 07.07.17 07.07.17 07.07.17
TITLE POWER HOUSE BUILDING ARCHITECTURAL PLAN AT EL(+27.50M (FFD))LVL						
			DEPT. SCALE: 1:100	DRAWING NO.		
			SIGN	PE-DG-412-611-C054		
			DATE	SHEET	1 OF 1	REV. 1
						
						

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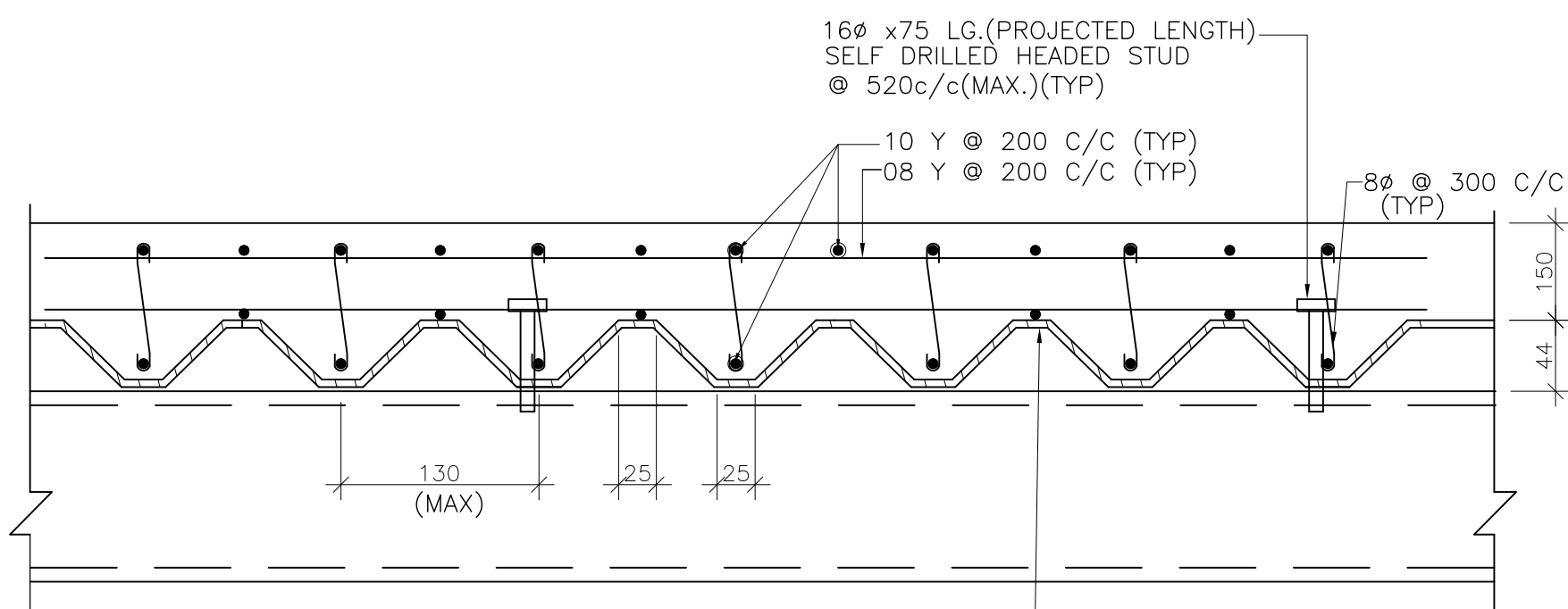
PE-DG-412-616-C004
DRAWING NO.

FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN MM

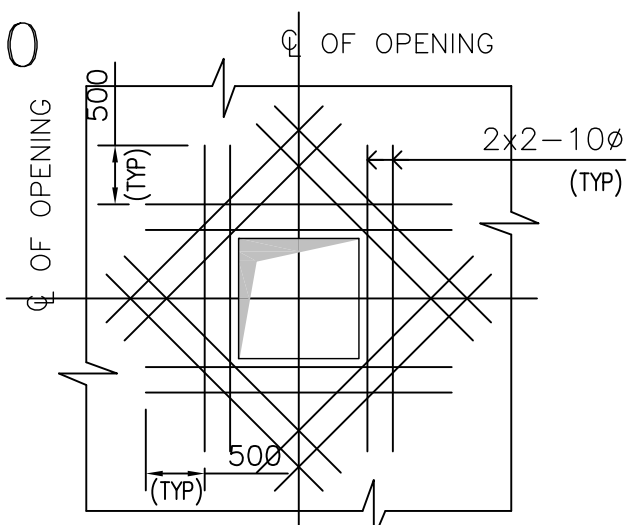


FEEDER FLOOR PLAN AT 22.500 (T.O.C)



TYP. DETAIL OF SLAB REINF.

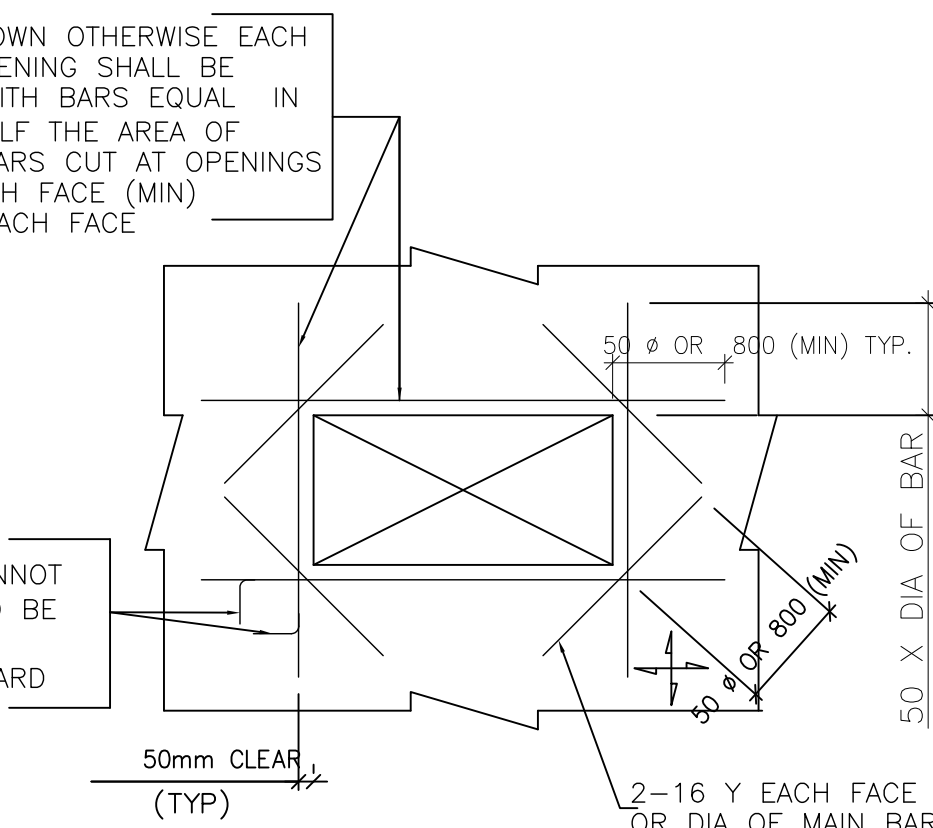
0.8 MM. THK GALVANIZED PERMANENTLY COLOR COATED (ON EXPOSED FACE) METAL DECKING PLATE (MINIMUM LENGTH OF SHEET 5300+END LAPS)



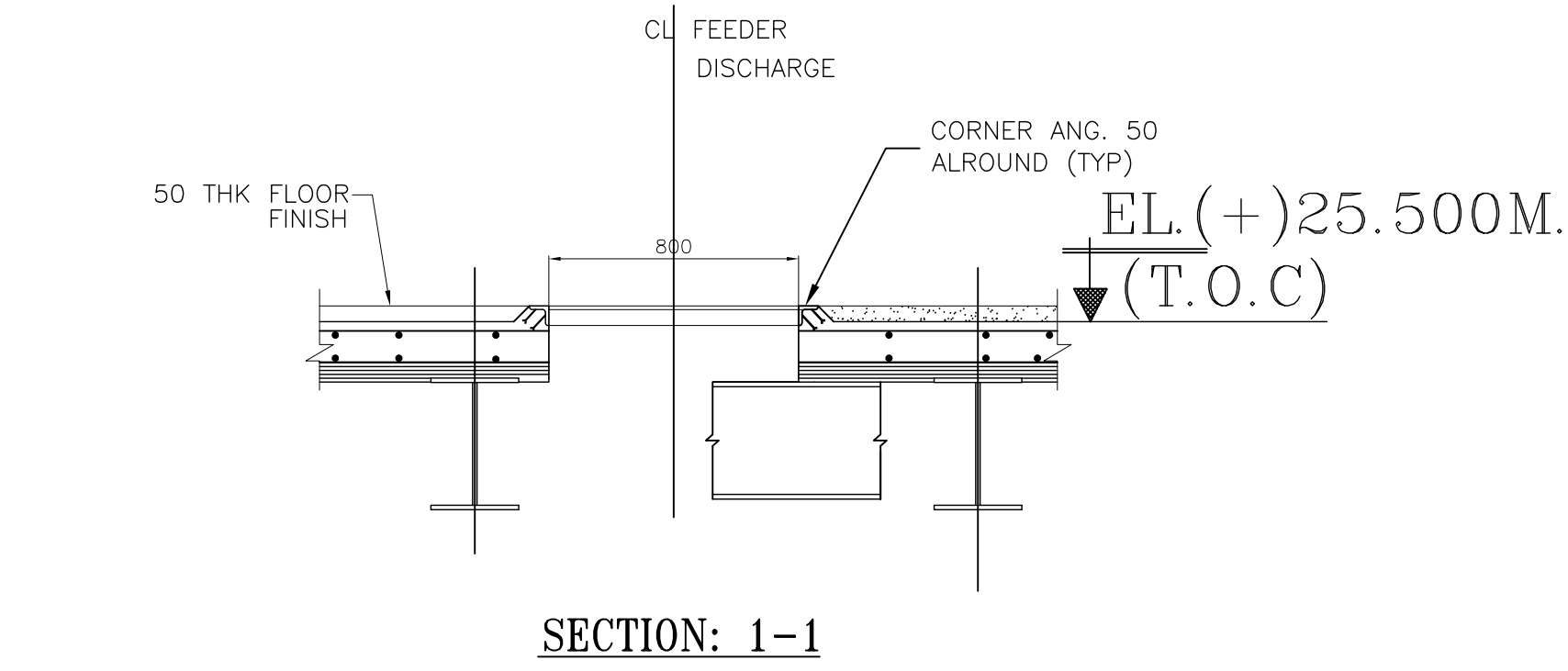
TYPICAL DETAIL OF REINFORCEMENT AROUND SQUARE OPENING

UNLESS SHOWN OTHERWISE EACH SIDE OF OPENING SHALL BE PROVIDED WITH BARS EQUAL IN AREA TO HALF THE AREA OF PARALLEL BARS CUT AT OPENINGS 2-16 Y EACH FACE (MIN) (TYP) AT EACH FACE

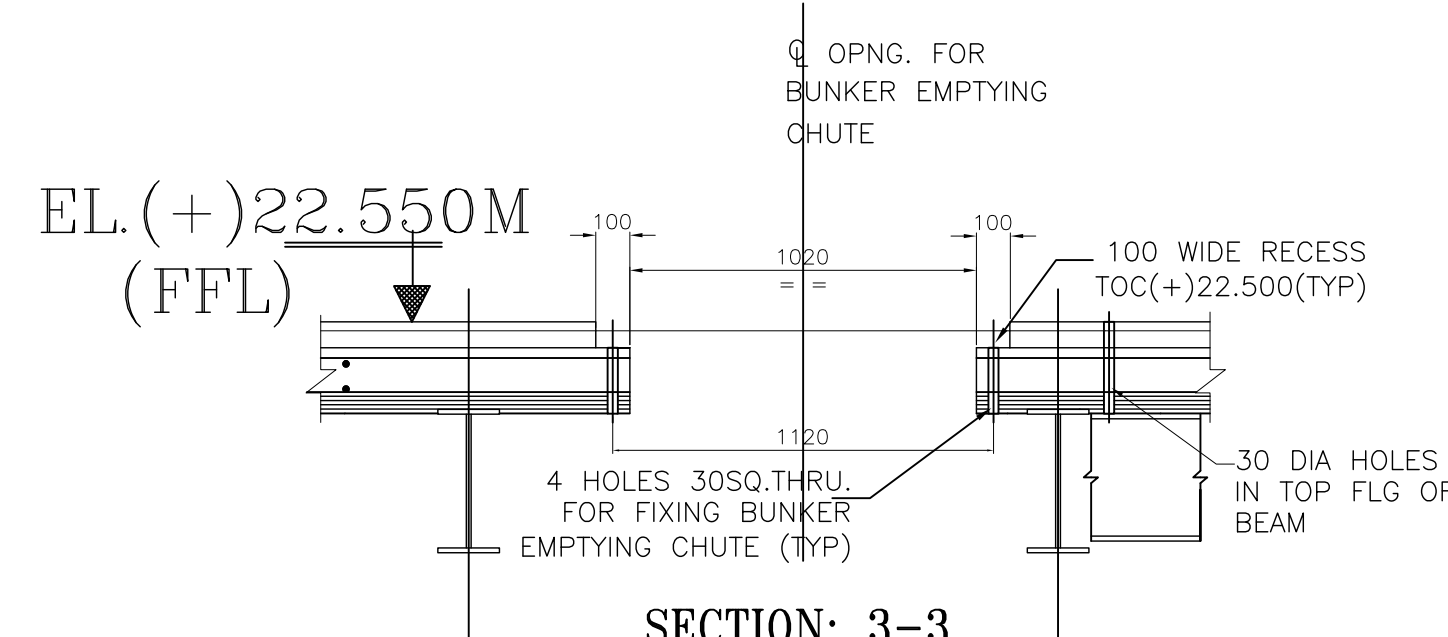
WHEN EMBEDMENT CANNOT BE OBTAINED BARS TO BE EXTENDED AS FAR AS POSSIBLE WITH STANDARD BEND



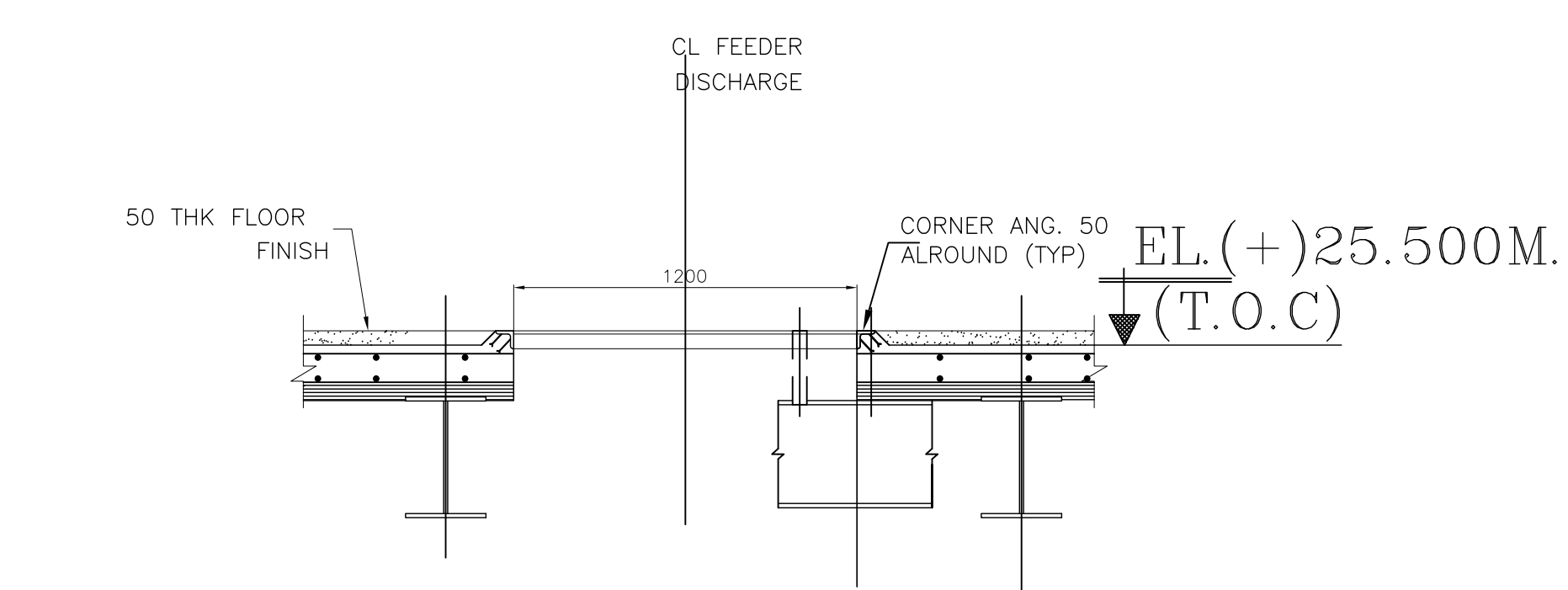
TYP. DETAIL OF REINFORCEMENT AROUND RECTANGULAR OPENINGS



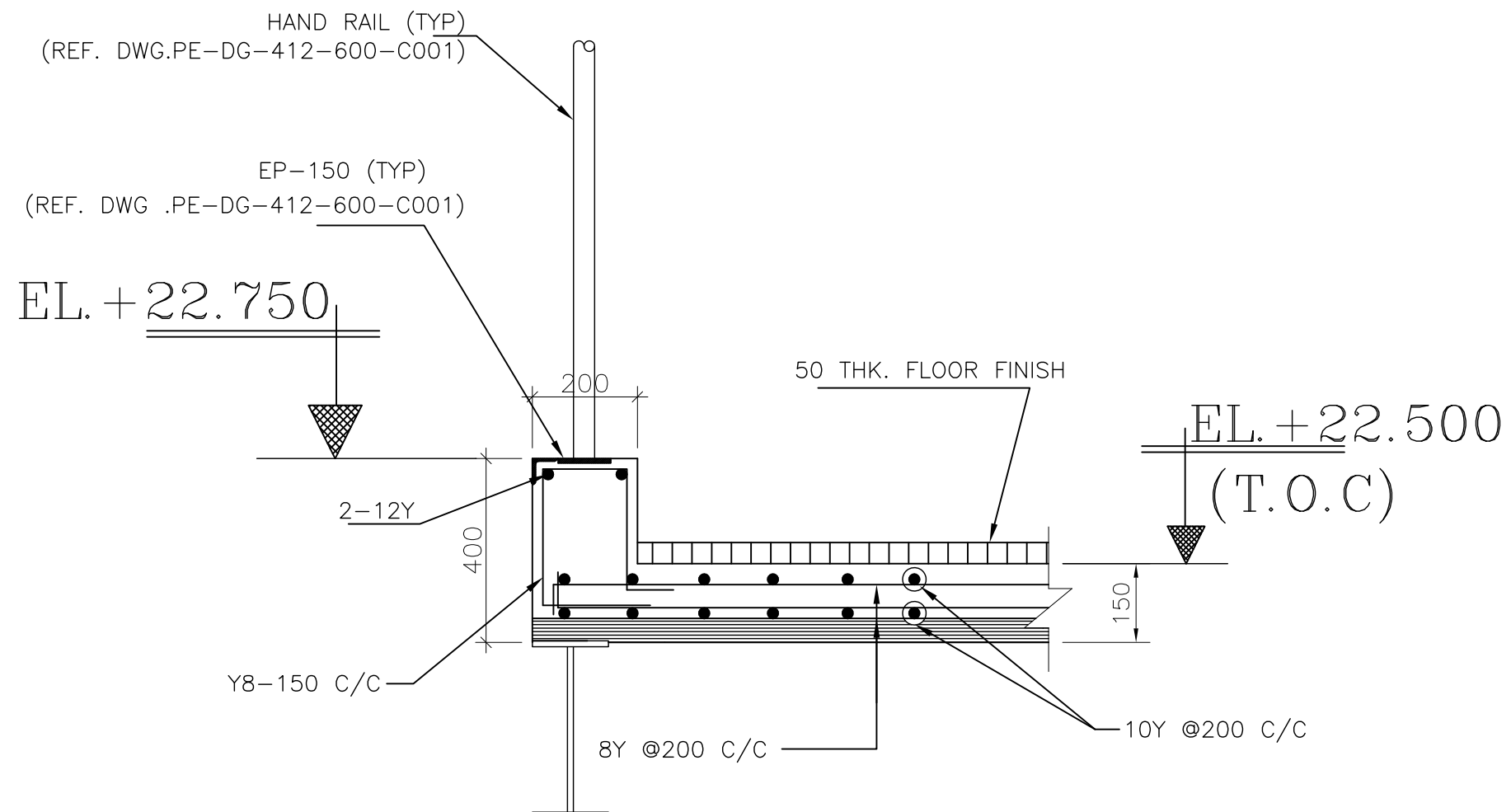
SECTION: 1-1



SECTION: 3-3



SECTION: 2-2



SECTION 1-1

NOTES:

- ALL DIMENSIONS ARE IN MM. AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
- ALL ELEVATIONS ARE REFERRED TO THE FINISHED GROUND FLOOR LEVEL OF POWER HOUSE BUILDING AS EL. 0.00 M WHICH CORRESPONDS TO RL. +10.00 M. ABOVE MEAN SEA LEVEL.
- FOR GENERAL NOTES AND STANDARD DETAILS REF. DWG. PE-DG-412-600-C001
- RCC SLAB/FLOOR FINISH SHALL BE GIVEN A MILD SLOPE IN THE DIRECTION OF ARROW INDICATED TOWARDS SCUPPER DRAIN.
- CONC SHALL BE OF GRADE M30 WITH 20 mm DOWN GRADED COARSE AGGT.
- ALL REINFORCEMENT BAR SHALL BE FE 500 CONFORMING TO IS 11786.

ENGG REF DWG:

- MILL BUNKER BAY STRUCTURAL FRAMING PLAN OF FEEDER FLOOR - PE-DG-412-616-C010

LEGENDS:

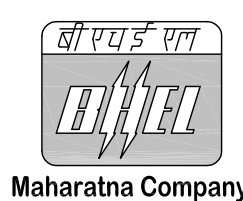
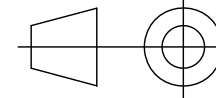
TYP
T.O.C.
CL
C/C

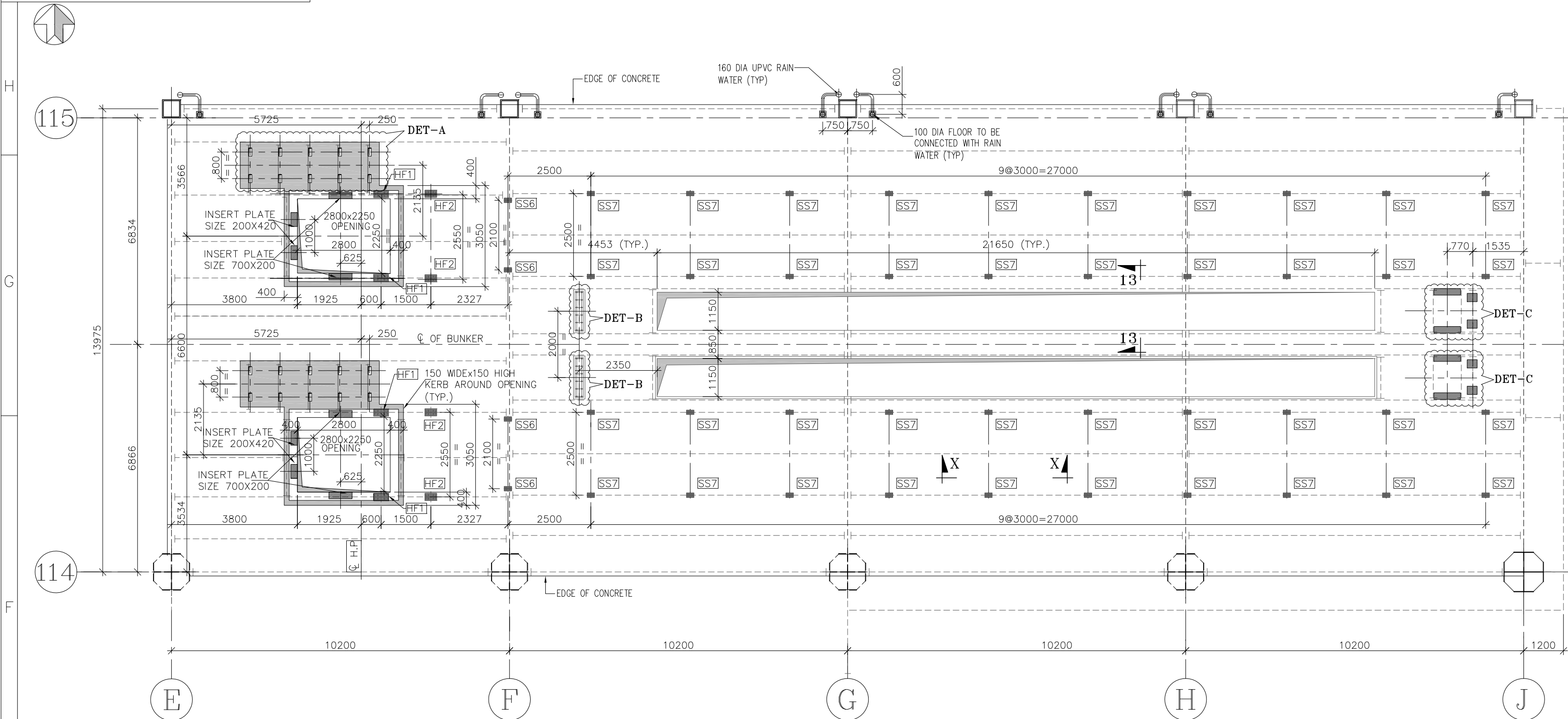
TYPICAL
TOP OF CONCRETE
CENTRE LINE
CENTRE TO CENTRE

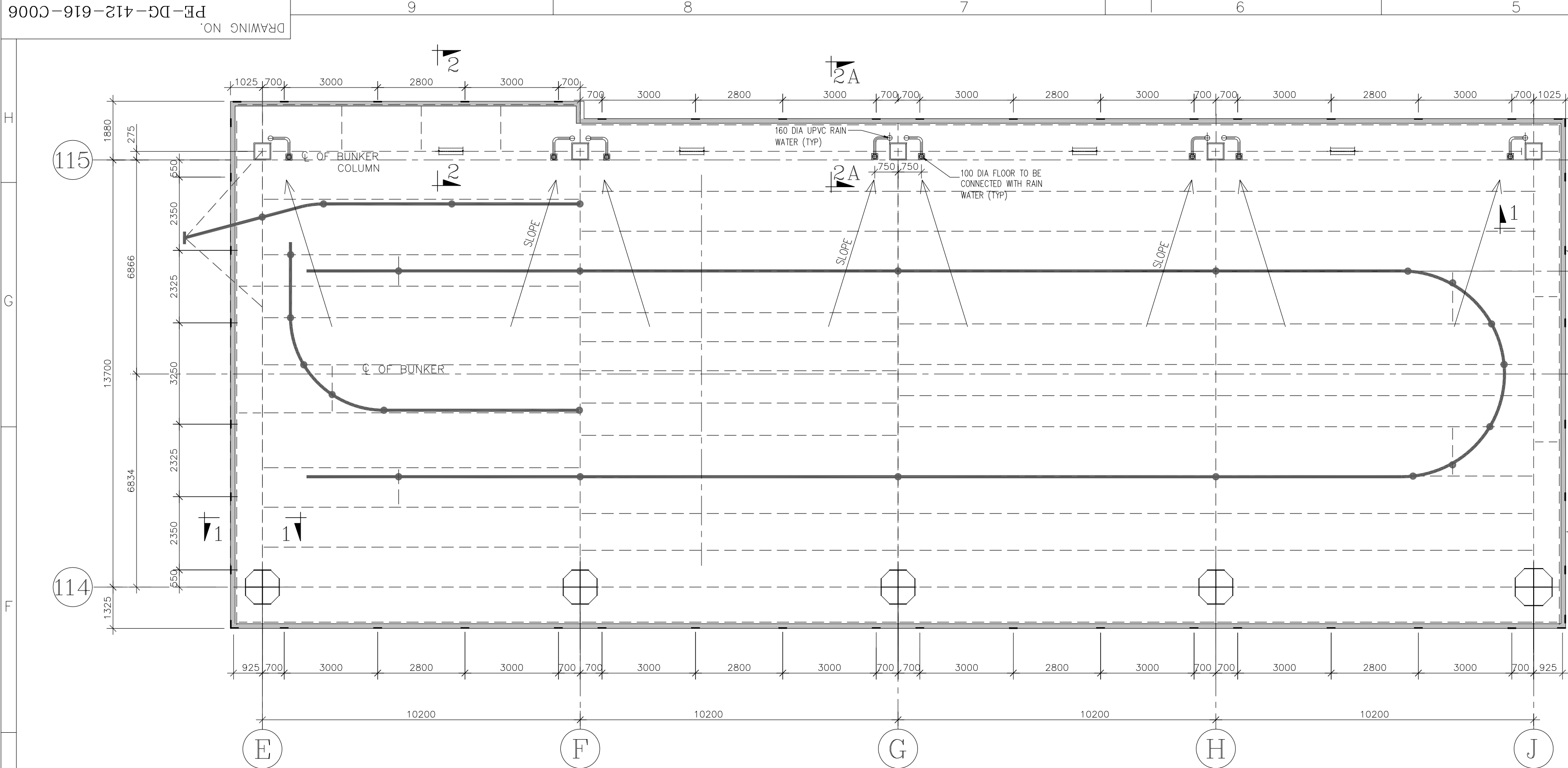
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✓ COMMENTS/APPROVAL			
□ PLANNING/INFORMATION			
□ CONSTRUCTION			
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ISSUED BY			
NAME	SOMNATH MISHRA		
SIGNATURE			
DATE	21 AUGUST 2019		

REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD	REV.	DATE	ALTD	CHD	APPD

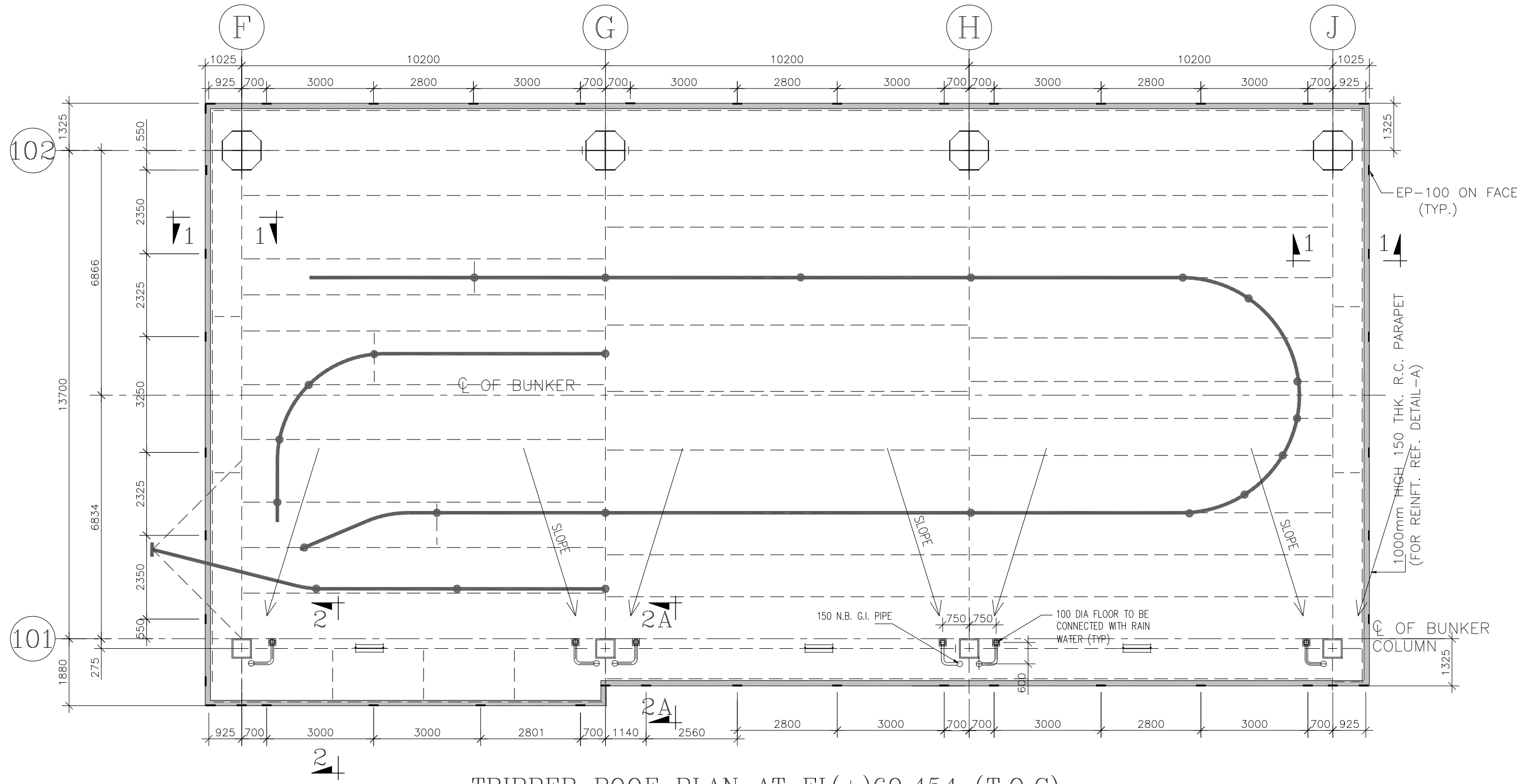
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STATUS		CONTRACT									
DISTRIBUTION											
TO											
No. OF											
REV.	DATE	ALTD			CHD		APPD				
01	21.08.19	YSR			PP		SM				
REVISED AS MKD.											
1											
		3									

PROJECT		2x660 MW ENNORE SEZ SUPERCRITICAL THERMAL POWER PROJECT AT ASH DYKE OF NCTPS, CHENNAI								
		OWNER: TAMILNADU GENERATION & DISTRIBUTION CORPORATION LIMITED								
		OWNER'S CONSULTANT: DESEIN PRIVATE LIMITED DESEIN HOUSE, NEW DELHI								
 Maharatna Company		BHARAT HEAVY ELECTRICALS LTD POWER SECTOR PROJECT ENGINEERING MANAGEMENT NEW DELHI		DEPT CODE C	NAME	SIGN	DATE			
					DRN	DK	=sd=	12/09/17		
					DESIN	PP	=sd=	12/09/17		
					CHD	SM	=sd=	13/09/17		
				APPO	AN	=sd=	13/09/17			
TITLE		MILL & BUNKER BAY RC DETAIL OF FEEDER FLOOR								
					DEPT.	SCALE:		DRAWING NO.		
					SIGN			PE-DG-412-616-C004		
				DATE						
					SHEET	1	OF	1	REV.	1

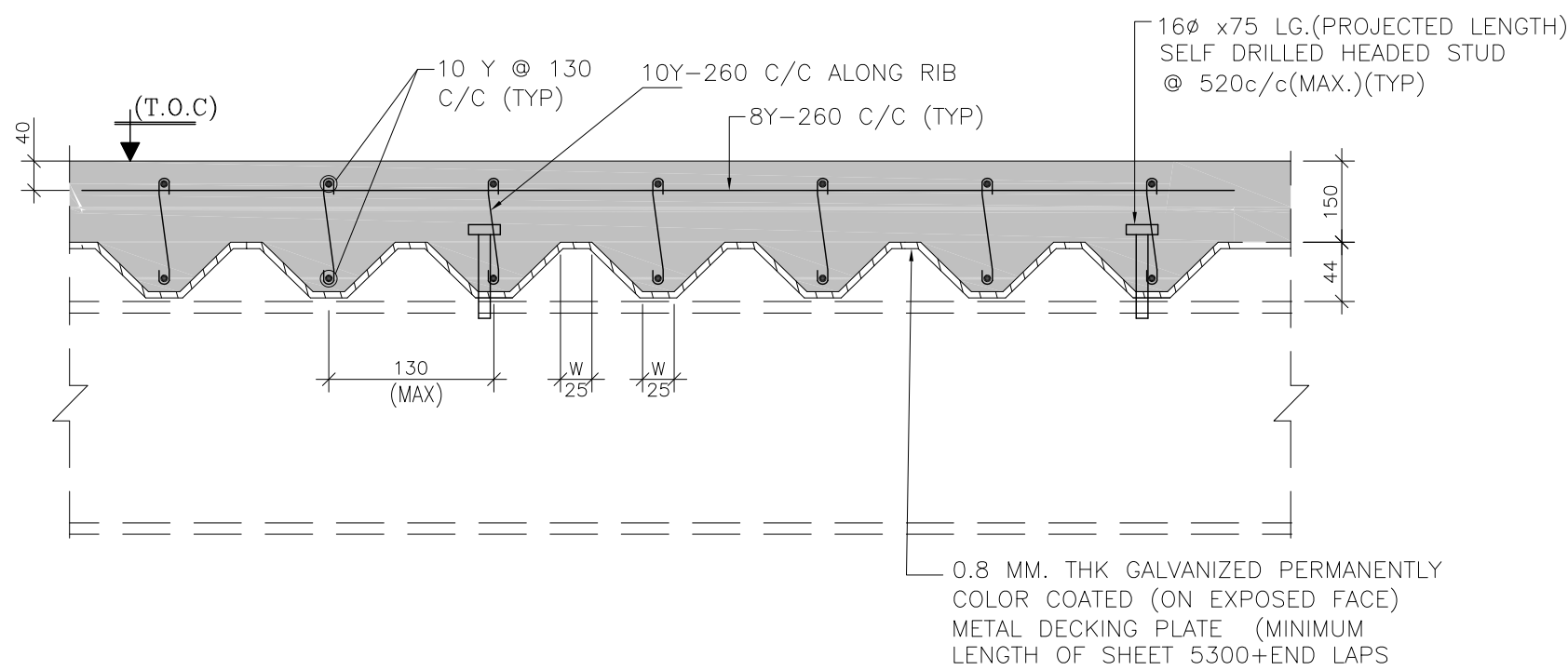




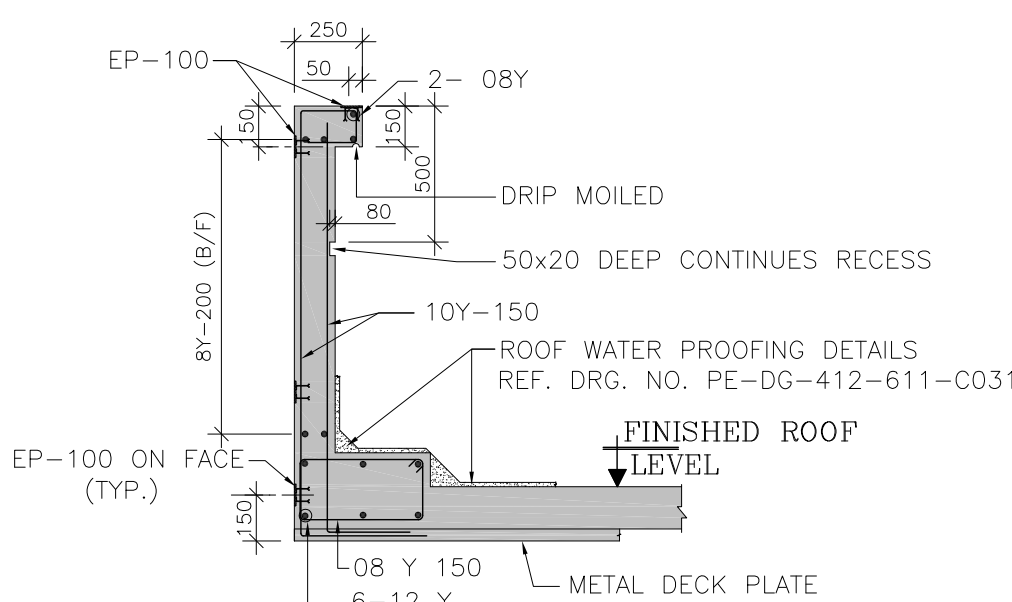
TRIPPER ROOF PLAN AT EL (+) 69.454 (T.O.C)



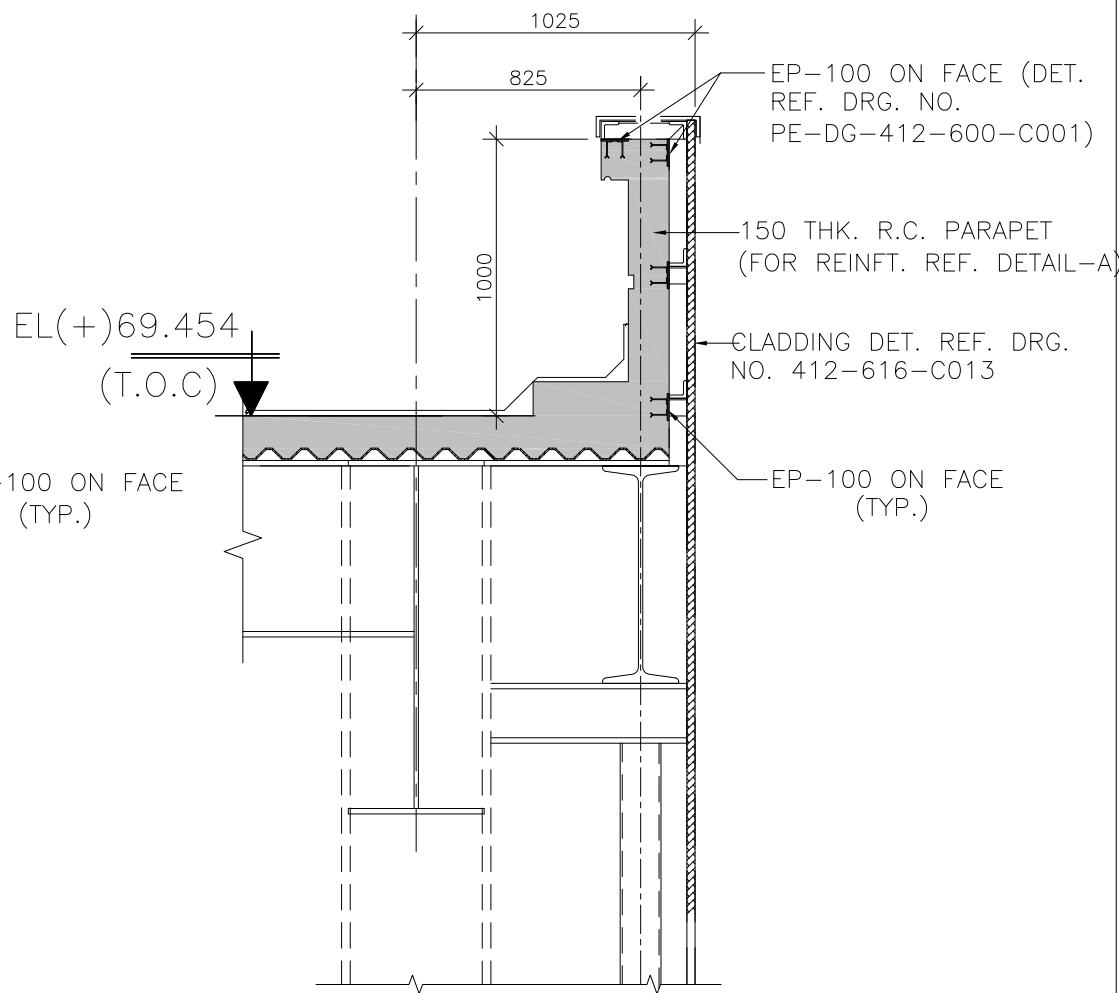
TRIPPER ROOF PLAN AT EL (+) 69.454 (T.O.C)



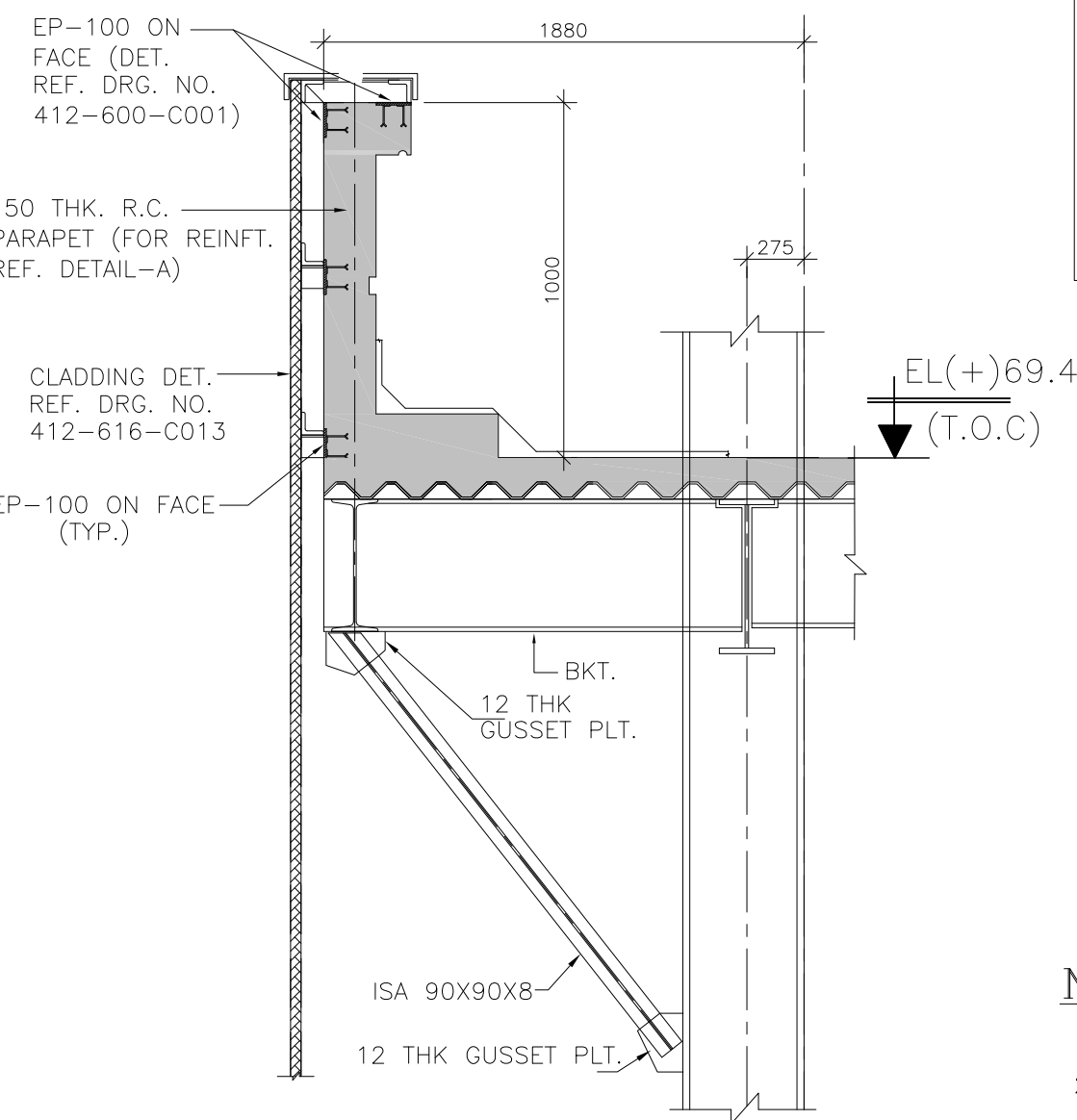
TYP. DETAIL OF DECK SHEET



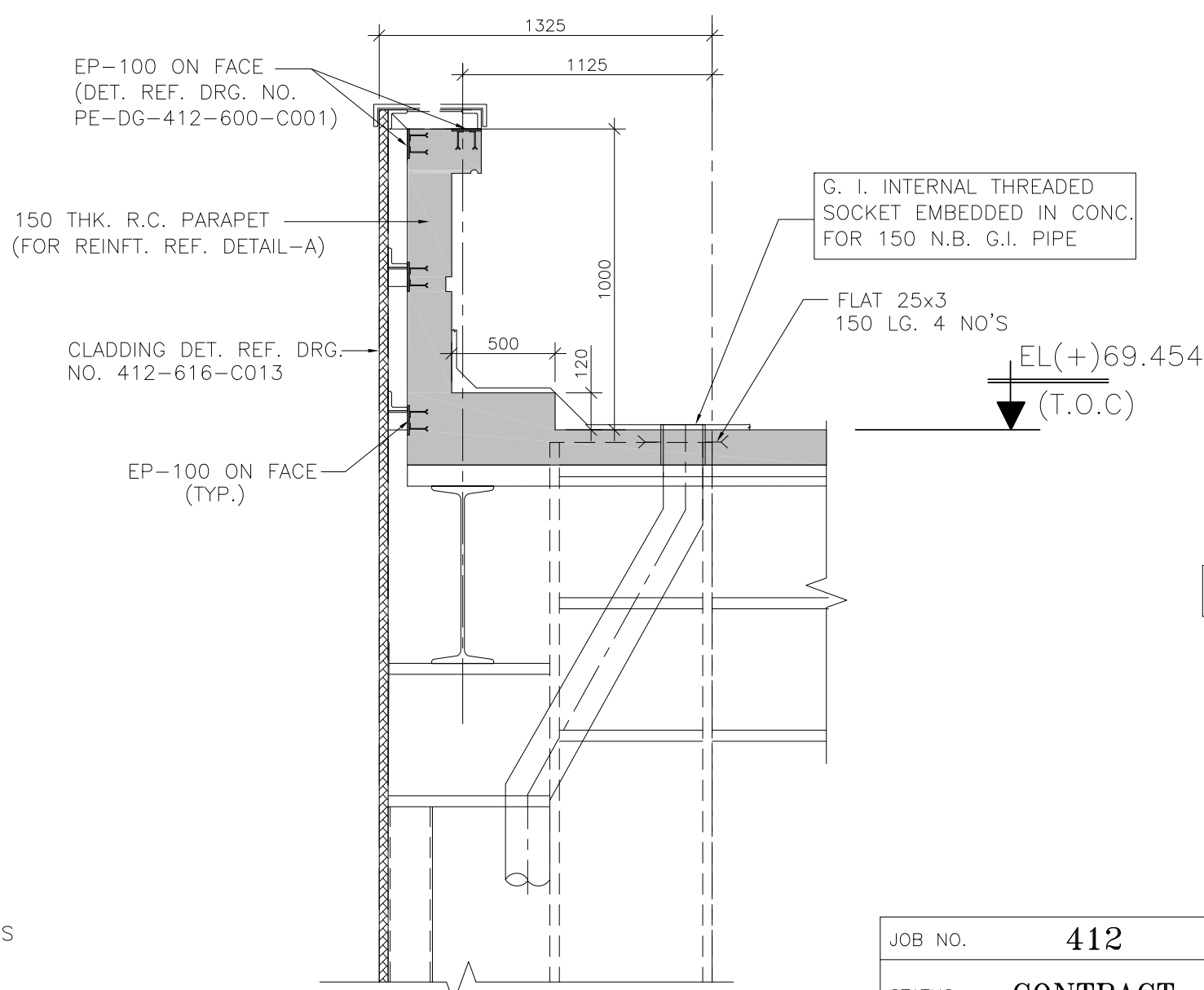
DETAIL-A
(TYP. PARAPET WALL CROSS SECTION)



SECTION 1-1



SECTION 2-2



SECTION 2A-2A
(FOR PIPE CLARITY)

NOTES: -

1. ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
2. ALL ELEVATIONS ARE REFERRED TO THE FINISHED FLOOR LEVEL OF POWER HOUSE BUILDING AS EL. 0.00 M WHICH CORRESPONDS TO RL(+) 10.0 M.
3. ALL STRUCTURAL CONCRETE SHALL BE DESIGN MIX CONC. OF GRADE M-35 UNLESS OTHERWISE NOTED.
4. ALL REINFORCEMENT STEEL SHALL BE HYSD BARS OF GRADE FE-500D CONFORMING TO IS:1786. (LATEST), AND SHALL BE FUSION BONDED EPOXY COATING CONFORMING TO IS:13620.
5. CEMENT SHALL BE OPC WITH C3A CONTENT FROM 5% TO 8%.

ENGINEERING REFERENCE DRAWINGS :-

1. PE-DG-412-600-C002 - GENERAL NOTES & STANDARD DETAILS FOR STRUCTURAL STEEL WORKS.
2. MAIN EQUIPMENT PLAN----- PE-DG-412-100-M002
3. FRAMING PLAN OF BUNKER ROOF ---- PE-DG-412-616-C012

LEGEND:

1. TOS = TOP OF STEEL
2. TYP. = TYPICAL
3. C/L = CENTER LINE
4. EL = ELEVATION
5. ■ = LOCATION FOR PLATFORM SUPPORT
6. ● = MONORAIL SUPPORT POINTS

TOTAL QTY. OF CONCRETE = 156 Cum. (APPROX)

PROJECT	2x660 MW ENnore SEZ SUPERCRITICAL THERMAL POWER PROJECT AT ASH DYKE OF NCTPS, CHENNAI		
OWNER:	TAMILNADU GENERATION & DISTRIBUTION CORPORATION LIMITED		
OWNER'S CONSULTANT:	DESEIN PRIVATE LIMITED DESEIN HOUSE, NEW DELHI		
BHARAT HEAVY ELECTRICALS LTD POWER SECTOR PROJECT ENGINEERING MANAGEMENT NEW DELHI	DEPT CODE C	NAME DRN PP SM AN	SIGN DATE 10/09/18 10/09/18 10/09/18 10/09/18
TITLE MILL & BUNKER BAY R.C.C. DTLS OF ROOF			
DEPT. SCALE:		DRAWING NO. PE-DG-412-616-C006	
SIGN DATE		SHEET 1 OF 1 REV. 01	

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□ PLANNING/INFORMATION			
□ CONSTRUCTION			
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ISSUED BY			
NAME SOMNATH MISHRA			
SIGNATURE			
DATE 08 OCTOBER 2018			

JOB NO.	412									
STATUS	CONTRACT									
DISTRIBUTION										
TO										
No. OF										

REVISED AS PER COMMENTS RECEIVED
VIDE LETTER NO. D.4027/17, DATE 27.09.18.

