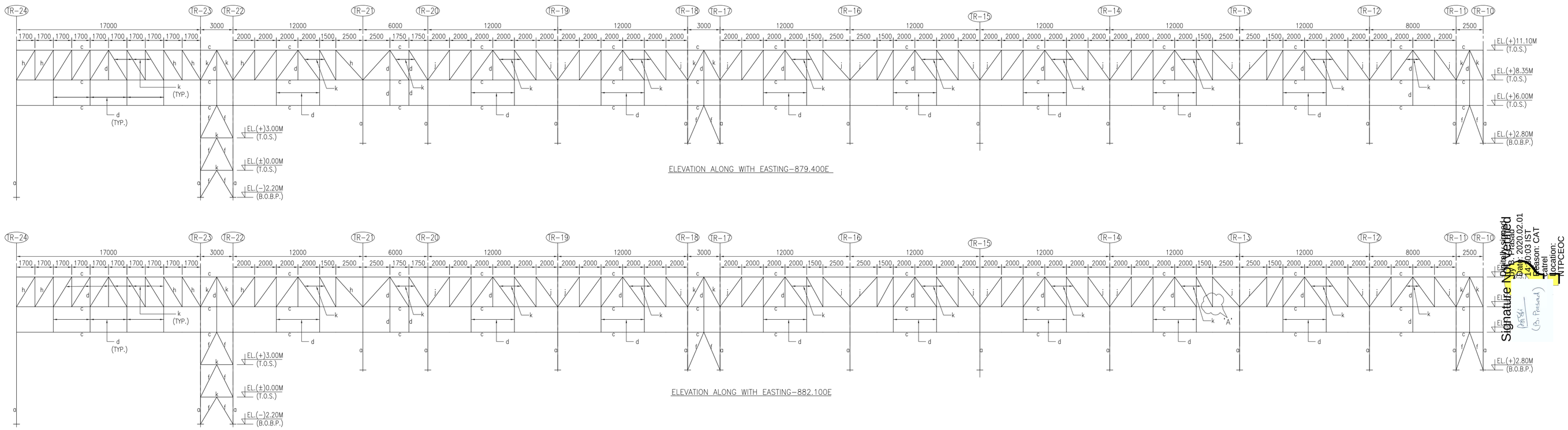
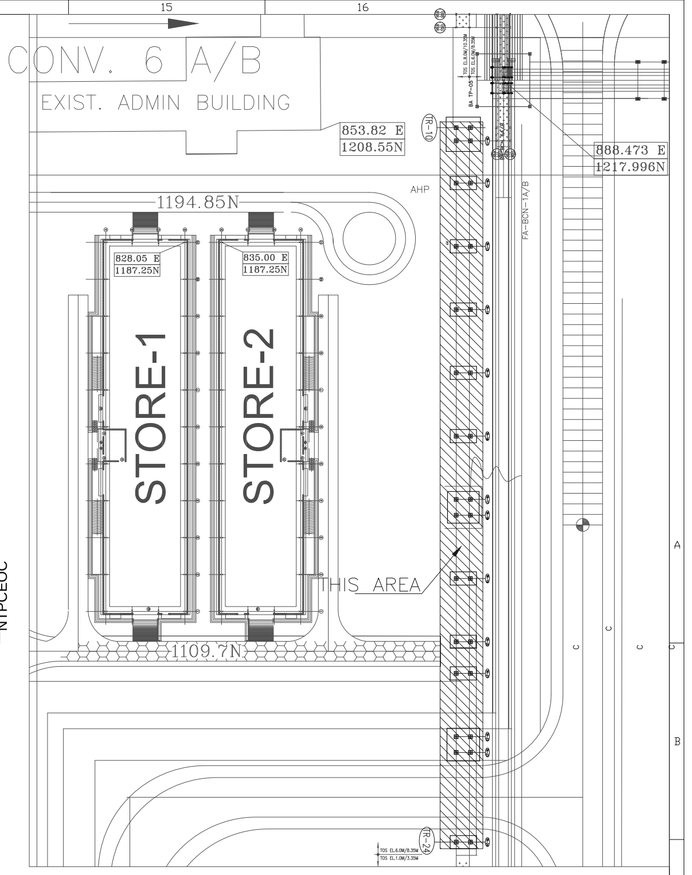
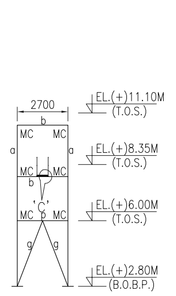


ELEVATION ALONG WITH EASTING-879.400E

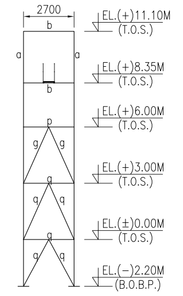
ELEVATION ALONG WITH EASTING-882.100E



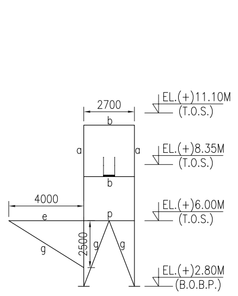
KEY PLAN



ELEVATION ALONG TR-10 TO TR-12, TR-14, TR-15, TR-17 TO 20



ELEVATION ALONG TR-22, TR-23& TR-24



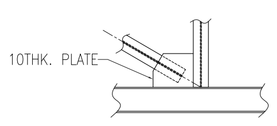
ELEVATION ALONG GRID TR-13,TR-16 & TR-21

MEMBER SCHEDULE

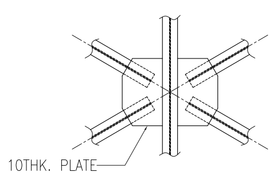
S NO.	MARK	MEMBERS SIZE	
1.	a	ISMC 200 BOX	□
2.	b	ISMC 150 BOX	□
3.	c	ISMC 150	[
4.	d	ISMC 75	□
5.	e	2X120X16 THK. + 1X168X12 THK.	I
6.	f	ISA 110X110X10	⊤⊤
7.	g	ISA 90X90X8	⊤⊤
8.	h	ISA 75X75X10	⊤⊤
9.	j	ISA 75X75X8	⊤⊤
10.	k	ISA 75X75X6	⊤⊤
11.	m	ISA 50X50X6	⊤⊤
12.	p	ISMC 150	[
13.	q	ISA 75X75X6	⊤⊤
14.	r	ISMC 100	[
15.	s	ISMC 150	[

BILL OF MATERIAL

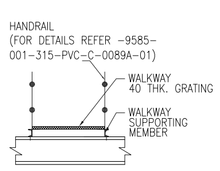
S.NO.	MEMBER	WEIGHT (MT)
1	ISMC 200	12.90
2	ISMC 150	24.70
3	ISMC 75	6.40
4	ISA 110X110X10	2.40
5	ISA 90X90X8	3.00
6	ISA 75X75X10	0.90
7	ISA 75X75X8	2.00
8	ISA 75X75X6	5.57
9	ISA 50X50X8	8.25
10	12 THK. PLT.	0.30
11	16 THK. PLT.	0.30
	TOTAL	66.90 T



DETAIL AT – 'A'
(SALE 1:25)



DETAIL AT – 'B'
(SALE 1:25)



DETAIL AT – 'C'

NOTES:–

1. ALL DIMENSIONS ARE IN MILLIMETERS, CO-ORDINATES & LEVELS IN METERS.
2. ALL ELEVATIONS ARE REFERRED TO FINISHED FLOOR LEVEL OF POWER HOUSE BUILDING AT EL(±)0.00 WHICH CORRESPONDS TO RL (+)375.50M. ABOVE MSL.
3. UNLESS NOTED OTHERWISE, END CONNECTION OF BEAMS SHALL BE DESIGNED FOR A MIN OF 60% OF BEAM SHEAR CAPACITY OR FORCES INDICATED ON THE DWG. IN CASE OF BEAM WITH ADDITIONAL FLANGE PLATES THIS PERCENTAGE SHALL BE 80%
4. ALL MC (MOMENT CONNECTION) TO BE DESIGNED FOR FULL CAPACITY.
5. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, TECHNICAL SPECIFICATIONS AND SCHEDULE OF ITEMS.
6. FOR OTHER NOTES AND STD. DETAILS REF. DRG. PE-DG-434-600-C002 (NTPC DRG NO. 9585-001-315-PVC-C-0089A)
7. CONNECTION DETAILS SHOWN ARE INDICATIVE ONLY. SIZE & THICKNESS OF GUSSETS, NO. & DIA. OF CONNECTION BOLTS ETC. SHALL BE DESIGNED & DETAILED BY FABRICATOR AND SHALL BE SHOWN IN CORRESPONDING FABRICATION DRG.
8. COLUMN BASE SURFACE & BOTTOM FACE OF VERTICAL STIFFENERS SHALL BE PROPERLY MACHINED BEFORE WELDING TO BASE PLATE.
9. LOCATION OF COLUMN SPLICES TO BE DECIDED BY MANUFACTURING UNIT BASED ON AVAILABILITY OF PLATE SIZES AND TRANSPORTATION PLAN TO SITE. SPLICE DETAILS MAY BE REFERRED FROM GENERAL NOTES DRG. NO.– PE-DG-434-600-C002 (NTPC DRG NO. 9585-001-315-PVC-C-0089A)

ENGINEERING REFERENCE DRAWING:

1. PE-DG-434-100-M001 – PLOT PLAN (9585-001-999-POC-F-001)
2. PE-DG-434-100-M002 – MAIN EQUIPMENT LAYOUT PLAN AT 0.00M (9585-001-999-PGM-F-001)
3. PE-DG-434-100-M054-R2 – YARD PIPING & TRESTLE LAYOUT 3&4 (AREA FROM BOILER, ESP UNIT-1 TO FOPH FACILITIES. (9585-001-999-POM-F-0102)

CONSTRUCTION REFERENCE DRAWING:

1. PE-DG-434-675-C016 – PIPE RACK PR-3/ BOP AREA – GA & RC DETAILS OF FOUNDATIONS & PEDESTALS (9585-001-315-PVC-C-1465)
2. PE-DG-434-675-C017– PIPE RACK PR-3/ BOP AREA – STRUCTURAL LAYOUT & DETAILS (9585-001-315-PVC-C-1466)

LEGEND:

1. TOS = TOP OF STEEL
2. BOS = BOTTOM OF STEEL
3. F/S = FAR SIDE (WHEN VIEWED FROM ROW A TO B)
4. N/S = NEAR SIDE (WHEN VIEWED FROM ROW A TO B)
5. UNO = UNLESS NOTED OTHERWISE
6. TYP. = TYPICAL
7. B/S = BOTH SIDE
8. THK. = THICK
9. PLT. = PLATE
10. MC = MOMENT CONNECTION

THIS DRG SHALL BE READ IN CONJUCTION WITH NTPC DRG NO. 9585-001-315-PVC-C-1465 & 1466

ERECTION SEQUENCE (TYPICAL)

1. SET-1 : MEMBER MARKED-c,d,h,k/j TO BE SHOP WELDED & COMPLETE ASSEMBLY SHALL BE FIELD BOLTED WITH COLUMN ON GRID LOCATION.
2. SET-2 : WALKWAY SUPPORTING MEMBER MARKED (r),m& s IN RESPECTIVE LEVEL PLAN SHALL BE FIELD BOLTED WITH SET-1.
3. SET-3 : MEMBER MARKED-a,b,e,f,g,p&q SHALL BE SHOP WELDED&COMPLETE ASSEMBLY SHALL BE FILED BOLTED WITH SET-1 AT SITE.

SPECIAL NOTE

DRAWINGS / DOCUMENTS ARE BEING SUBMITTED FOR INFORMATION. BHEL HEREBY CONFIRMS FULL COMPLIANCE TO ALL THE SPECIFIED REQUIREMENTS OF THE CONTRACT SPECIFICATION, WITHOUT ANY DEVIATION, WHATSOEVER. IN CASE DURING THE TENURE OF THE CONTRACT, IT IS OBSERVED/FOUND THAT THE DATA/ INFORMATION IN THE RELEASED DRAWING/DOCUMENT IS NOT MEETING THE CONTRACT SPECIFICATION, BHEL/ITS VENDOR(S) WILL MODIFY/ RECTIFY/REPLACE THE SAME TO MEET THE SPECIFICATION WITHOUT ANY COMMERCIAL IMPLICATION OR ANY TIME EXTENSION TO PVUNL/NTPC IN THIS REGARD.

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☐ PLANNING ☐ INFORMATION
☑ CONSTRUCTION
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ISSUED BY
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SIGNATURE: Pp
DATE: 31/01/2020

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☐ CONSTRUCTION
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NAME: ABHAY KUMAR
SIGNATURE: -Sd-
DATE: 30/01/2020

NTPC. DRAWING NO. – 9585-001-315-PVC-C-1467

CUSTOMER: एन टी पी सी NTPC — NTPC LIMITED

3x800MW PATRATU SUPER THERMAL POWER PROJECT

JOB NO. 434
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	DE.EN.I	AP	-Sd-	30/01/2020
	CHD	ABHAY	-Sd-	30/01/2020
	APPD	SP	-Sd-	30/01/2020

TITLE: PIPE RACK
PR-3/ BOP AREA-STR ELEVATION & DETAILS

DEPT. | SIGN | SCALE 1:100 | DRAWING NO. PE-DG-434-675-C018 | SHEET 1 OF 1 | REV. R0 | SIZE-A1

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