



- 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-P0C-F-001)
  2. PE-DG-434-100-M002 - MAIN EQUIPMENT LAYOUT PLAN AT 0.00M (9585-001-999-P0M-F-001)
  3. PE-DG-434-100-M0543 - YARD PIPING & TRESTLE LAYOUT 2 (PR-02 AREA NEAR BOILER, 9585-001-999-P0M-F-0108 ESP UNIT-2, GYPSUM AND LIMESTONE BUILDING (9585-001-999-P0M-F-0108)
- CONSTRUCTION REFERENCE DRAWING:**
1. PE-DG-434-675-C013 - PIPE RACK PR-2/ BOP AREA - GA & RC DETAILS (9585-001-315-PVC-C-1462)

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

**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 OBJECTION, WHATSOEVER, IN CASE DURING THE TENURE OF THE CONTRACT, IT IS OBSERVED/PROVED THAT THE DATA/ INFORMATION IN THE RELEASED DRAWINGS IS NOT ACCORDING TO THE CONTRACT SPECIFICATION. BHEL/ITS VENDORS WILL MODIFY/ RECTIFY/REPLACE THE SAME TO MEET THE SPECIFICATION WITHOUT ANY COMMERCIAL IMPLICATION OR ANY TIME EXTENSION TO THE CLIENT IN THIS REGARD.

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)

THIS DRAWING MARKED (✓) IS RELEASED FOR:

<input type="checkbox"/> COMMENTS/REVISION	<input type="checkbox"/> FABRICATION
<input type="checkbox"/> PLANNING	<input type="checkbox"/> INFORMATION

IF CONSTRUCTION

STAMP ALL PREVIOUS REVISION AS SUPERSEDED

NAME	ANIL KUMAR
SIGNATURE	[Signature]
DATE	11/07/2020

**BILL OF MATERIAL**

S NO.	MEMBERS SIZE	WEIGHT (MT)
1.	ISMC 75 BOX	7.0
2.	ISMC 100 BOX	0.50
3.	ISMC 150 BOX	2.80
4.	ISMC 250 BOX	18.5
5.	ISMC 300 BOX	4.00
6.	ISMC 100	3.50
7.	ISMC 200	0.10
8.	2 ISA 50X50X8	1.75
9.	2 ISA 65X65X6	7.00
10.	2 ISA 75X75X8	9.0
11.	2 ISA 90X90X8	13.5
12.	2 ISA 100X100X8	10.0
13.	2 ISA 100X100X10	0.50
14.	25 THK. PLT.	1.70
15.	25 THK. PLT.	5.30
TOTAL		73.10

**COLUMN SCHEDULE**

(Grade of Steel E250)

S/L	MEMBER	DEPTH	FLG.	WIDTH	X THK	WEB THK.
1	BKT-1	250	250	X 25	20	

**BEAM SECTION**

FLG.	WIDTH	WEB THK.
1	250	20

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<input type="checkbox"/> COMMENTS/REVISION	<input type="checkbox"/> FABRICATION
<input type="checkbox"/> PLANNING	<input type="checkbox"/> INFORMATION

IF CONSTRUCTION

STAMP ALL PREVIOUS REVISION AS SUPERSEDED

NAME	ANIL KUMAR
SIGNATURE	[Signature]
DATE	27/07/2020

**NTPC. DRAWING NO. - 9585-001-315-PVC-C-1463**

**CUSTOMER**

**NTPC LIMITED**

**3x800MW PATRATU SUPER THERMAL POWER PROJECT**

**JOB NO.** 434

**STATUS**

**DISTRIBUTION**

**DEPT.** POWER SECTOR

**PROJECT ENGINEERING MANAGEMENT**

**NOIDA**

**REVISIONS**

REV	DATE	ALT	CHD	APPD
1	27/07/2020	01	01	01

**REVISAS AS PER NTPC COMMENTS.**

**PIPE RACK PR-2/BOP AREA**

**STRUCTURAL LAYOUT & DETAILS**

**DEPT.** SCALE 1:100

**DRAWING NO.** PE-DG-434-675-C014

**SHEET** 1 OF 1

**REV.** 01

**SIZE-A1**