

Ref: BHE/PW/PUR/NTPRT-CHP-STRUCTURE/2267/Corg-07

Date: 08/06/2020

To

ALL BIDDERS,

Sub: Corrigendum-07: Issuance of Clarification, amendment and Extension of offer submission due date.

Scope of Work: CHP STRUCTURE ERECTION AT 3X800 MW PVUNL PATRATU, JHARKHAND.

Reference:

1. **E-Tender Spec No:** BHE/PW/PUR/NTPRT-CHP-STRUCTURE/2267
2. **Corrigendum-01** dated 17/03/2020 for cancellation of Pre-Bid Meeting.
3. **Corrigendum-02** dated 21/03/2020 for tender due date extension from 02/04/2020 to 03/04/2020.
4. **Corrigendum-03** dated 30/03/2020 for tender due date extension from 03/04/2020 to 20/04/2020.
5. **Corrigendum-04** dated 19/04/2020 for tender due date extension from 20/04/2020 to 11/05/2020.
6. **Corrigendum-05** dated 11/05/2020 for tender due date extension from 11/05/2020 to 28/05/2020.
7. **Corrigendum-06** dated 28/05/2020 for tender due date extension from 28/05/2020 to 11/06/2020.

Bidders to kindly take note of the following:

AA) ISSUANCE OF CLARIFICATIONS:

SI No	Bidder's Query	BHEL's Clarification
1	Please provide the structure wise weight list.	Please refer the enclosed 'Annexure-I: Tentative Quantity of Structure' of this corrigendum for reference purpose only and the same shall not form part of the Contract.
2	Please provide layout/Plot Plan showing CHP Route.	Please refer the enclosed 'Annexure-II- Reference Drawings' of this corrigendum for reference purpose only and the same shall not form part of the Contract.
3	Please provide GA/elevation drawing for understanding height of various structures.	

BB) ISSUANCE OF AMENDMENT:

SI No	NIT Clause	Description as per NIT	Amended as
1	Payment term of ST No. A2301 of Chapter-XVII-BOQ & % weightage	Payment Term: Pre-Assembly: 20%, Erection: 40%, Alignment, bolt tightening/welding: 40%, Completion of structure: 10%	Payment Term: Pre-Assembly: 20%, Erection: 40%, Alignment, bolt tightening/welding: 30%, Completion of structure: 10%

CC) EXTENSION OF LAST DATE FOR OFFER SUBMISSION:

The offer submission due date has been extended up to 22/06/2020, 15.00 Hrs.

Technical Bid (Part-I) shall be opened on 22/06/2020, 16.00 Hrs.

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All other Terms and conditions of the Tender Specification shall remain unaltered unless expressly amended by BHEL in writing. Bidders are requested to submit as a part of their offer, a copy of this corrigendum duly Digitally countersigned by the authorized signatory as a token of Bidder's unqualified acceptance of this corrigendum.

BIDDERS MAY PLEASE NOTE THAT SUBJECT TENDER IS E-TENDER AND THE OFFER IS TO BE SUBMITTED ONLY IN E-PROCUREMENT PORTAL→ www.bhel.abcprocure.com

BIDDERS WHO HAVE ALREADY SUBMITTED THEIR OFFERS PRIOR TO ISSUANCE OF THIS CORRIGENDUM IN E-TENDER PORTAL ARE REQUIRED TO RE-SUBMIT THEIR OFFER AFTER TAKING COGNIZANCE OF THIS CORRIGENDUM.

Thanking you,
Yours faithfully,

AGM (Purchase)

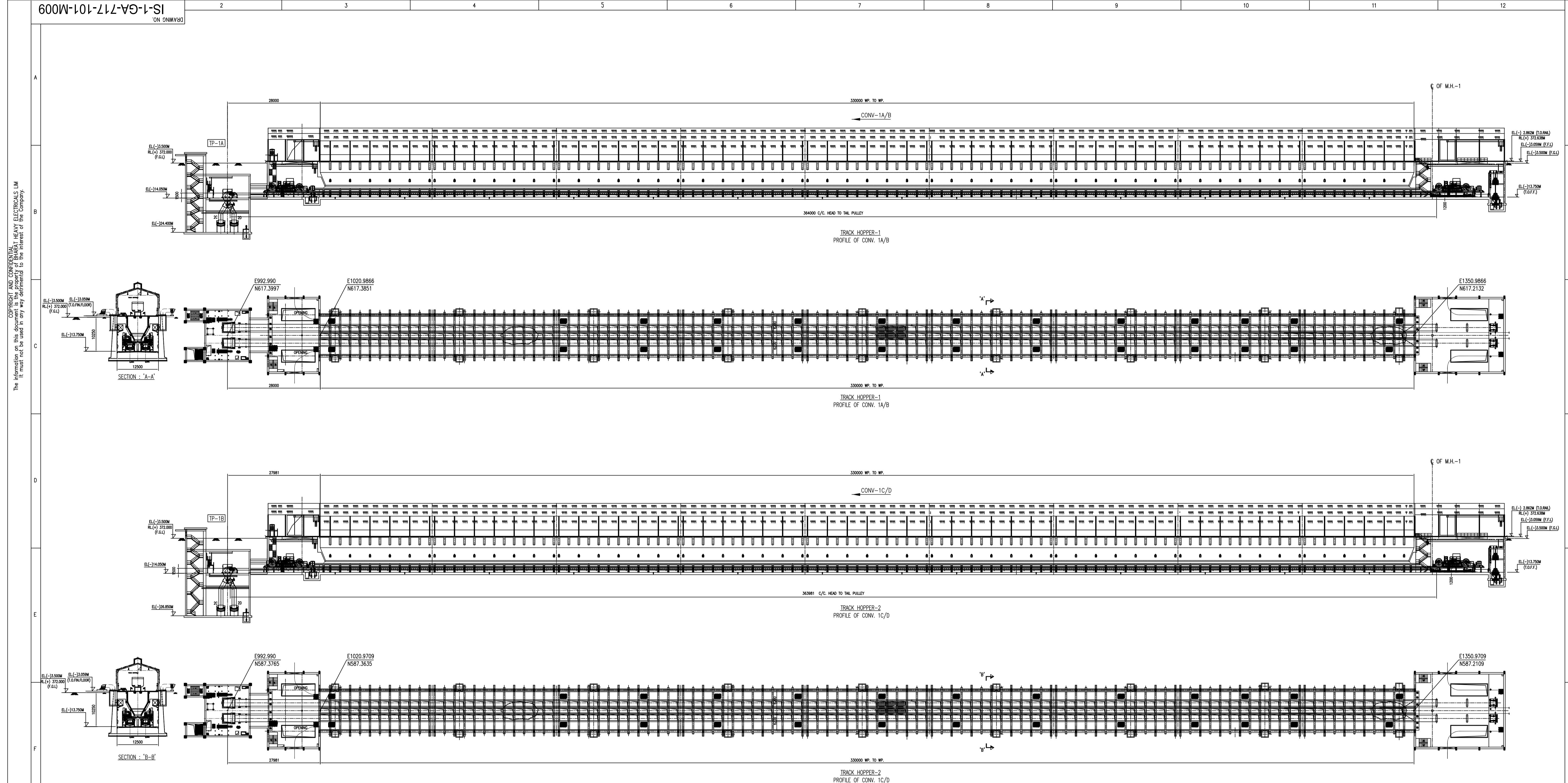
Enclosure:

- 1) Annexure-I: Tentative quantity of Structure (01 Page)
- 2) Annexure-II: Reference drawings (10 Pages)

Annexure-I-Tentative Quantity of Structure

SL NO	SYSTEM	STRUCTURE	Tentative QTY (ENGG)
1	CHP	TH-1 (330m x 13m x 10.25m)	850
2	CHP	TH-2 (330m x 13m x 10.25m)	850
3	CHP	WT-1	125
4	CHP	WT-2	125
5	CHP	CH (39m x 28m x 51.42m)	2600
6	CHP	TP-3 (18m x 18m x 35.90m)	1600
7	CHP	TP-4 (14m x 23m x 19.80m)	350
8	CHP	TP-5 (18m x 17m x 78.00m)	1600
9	CHP	TP-6 (14m x 12m x 23.20m)	300
10	CHP	TP-7 (13m x 12m x 12.60m)	150
11	CHP	TP-8 (13m x 10m x 18.30m)	140
12	CHP	TP-9 (13m x 10m x 19.40m)	140
13	CHP	CONV. 3A/B	1250
14	CHP	CONV. 4A/B	300
15	CHP	CONV. 5A/B	450
16	CHP	CONV. 6A/B	2500
17	CHP	CONV. 7A/B	1100
18	CHP	CONV. 8A/B	400
19	CHP	CONV. 9A	30
20	CHP	CONV. 9B	30
21	CHP	CONV. 10A/B	175
22	CHP	DSPH-A	50
23	CHP	DSPH-B	50
24	CHP	DOZZER SHED	50
25	CHP	WORK SHOP	40
26	CHP	CABLE RACK	910
			16165

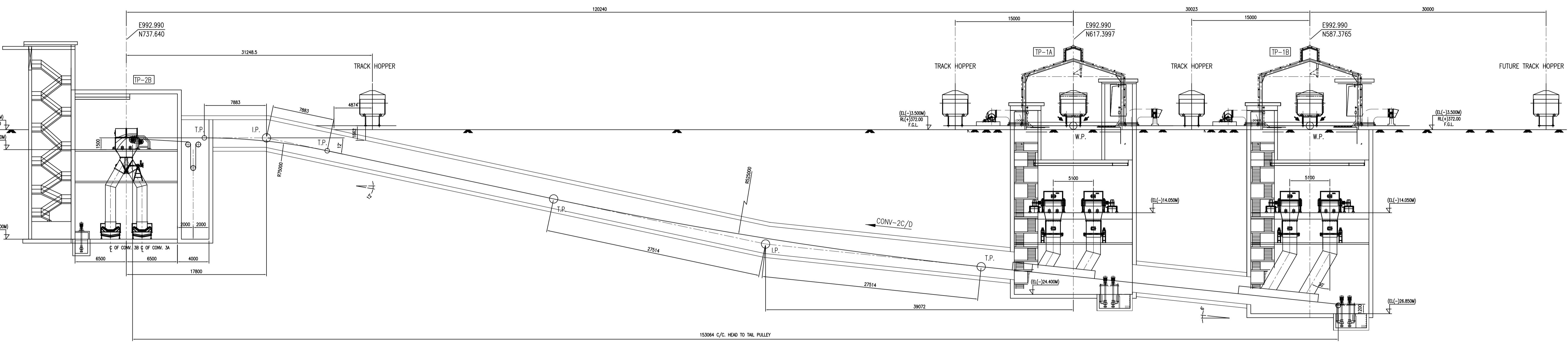
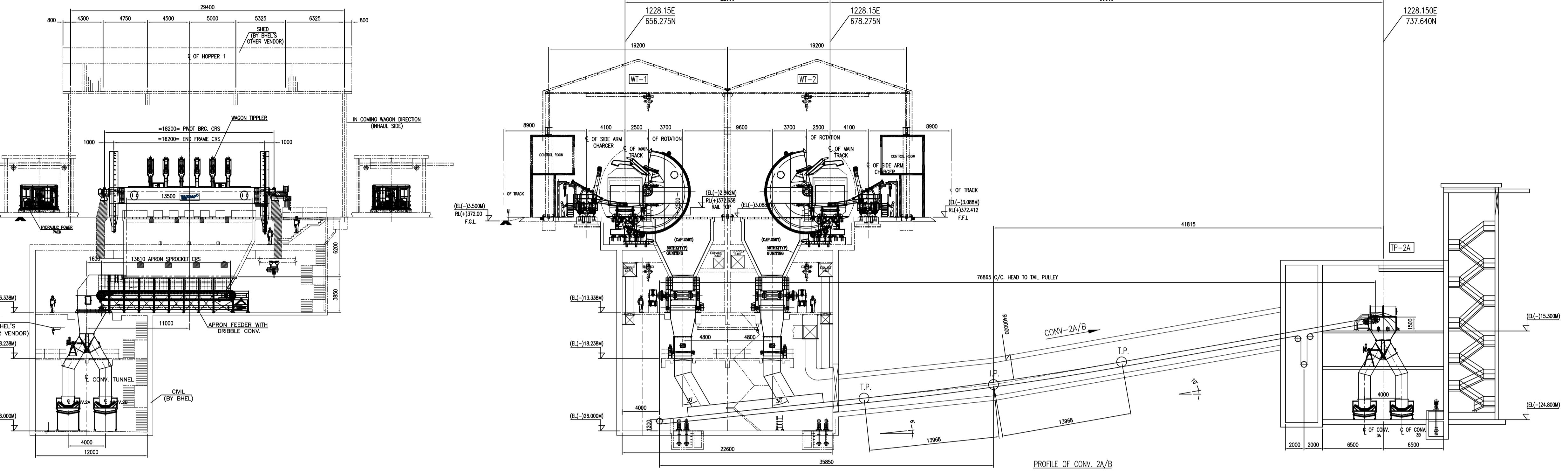
Annexure-II: Reference Drawings



NOTES :-

- ALL DIMENSIONS ARE IN MM. & LEVELS ARE IN METER.
- FINISH FLOOR LEVEL = RL (+) 375.50 M, CORRESPONDS TO PLANT EL 0.0 M (GROUND FLOOR OF STG BUILDING)
- THIS DRG. IS TO BE READ IN CONJUNCTION WITH PLANT LAYOUT 9585-001-155-PVM-F-001 AND FLOW DIAGRAM DRG. NO: 9585-001-155-PVM-L-002 FOR CHP AND LHP, 9585-001-155-PVM-L-003 FOR CHP.
- THIS DRAWING IS REFERRED FOR THE ELEVATION VIEW OF HAD PULLEY & CONVEYOR PROFILE.
- SIZE OF TRANSFER TOWER IS INDICATIVE & SHALL BE AS APPROVED MECH. GA OF RESPECTIVE T.P.
- CHUTE WORK SHOWN IN THIS DRG. IS INDICATIVE AND SHALL BE FINALIZED DURING DETAIL ENGG.
- ALL EQUIPMENT SHOWN IN THIS DRG. IS INDICATIVE & SHALL BE AS PER RESPECTIVE APPROVED DRAWING/ DOCUMENTS

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JOB No. IS-1-17-2005 STATUS OF DRAWING DISTRIBUTION OF PRINTS QTY.				PROJECT 3x800MW PATRATU SUPER THERMAL POWER PROJECT (PHASE-I)																																							
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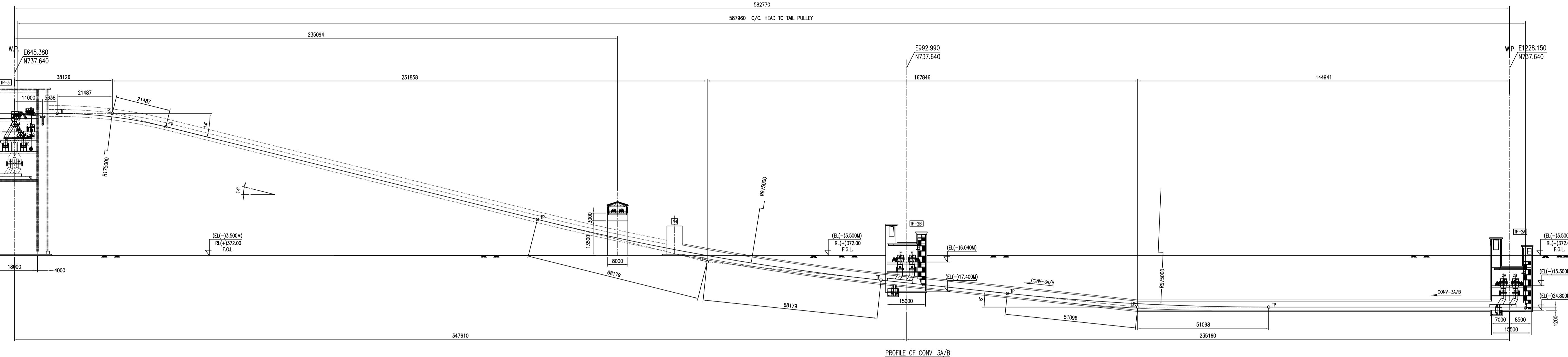
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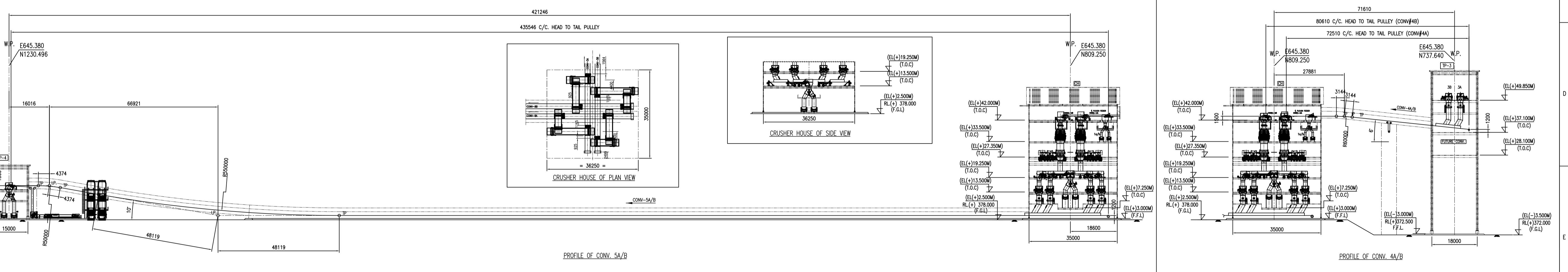
ENGINEERING DIVISION
(A GOVERNMENT OF INDIA ENTERPRISE)

JOB No.		IS-1-17-2005			PROJECT 3x800MW PATRATU SUPER THERMAL POWER PROJECT (PHASE-I)																	
STATUS OF DRAWING																						
DISTRIBUTION OF PRINTS				QTY.																		
REV. 0		NAME	SIGN	DATE																		
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ZONE		 BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE												NO. OF VAR								
															SUB CONTRACTOR	 MACAWBER BEEKAY PRIVATE LIMITED NOIDA U.P.(201301)				NAME	SIGN	DATE
																				DRN.	DUT	17.04.2018
																				CHD.	JB & SSD	17.04.2018
		APPD.	IDEY	17.04.2018	NO. OF ITEMS																	
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		FILE NO. :					ITEM NO.															
						9585-001-155-PVM-B-009																
2.	22.02.19	MARKED REVISED		PS	GKG	DKG	TITLE : CONVEYOR PROFILES FOR CHP, LHP, GHP			DRAWING NO.			REV. 02									
1.	-	MARKED REVISED		DUT	JB	IDEY																
R.No.	DATE	DESCRIPTION		BY	CHKD.	APPD.																
REVISIONS										SHEET NO. 2			NO. OF SHTS. 6									
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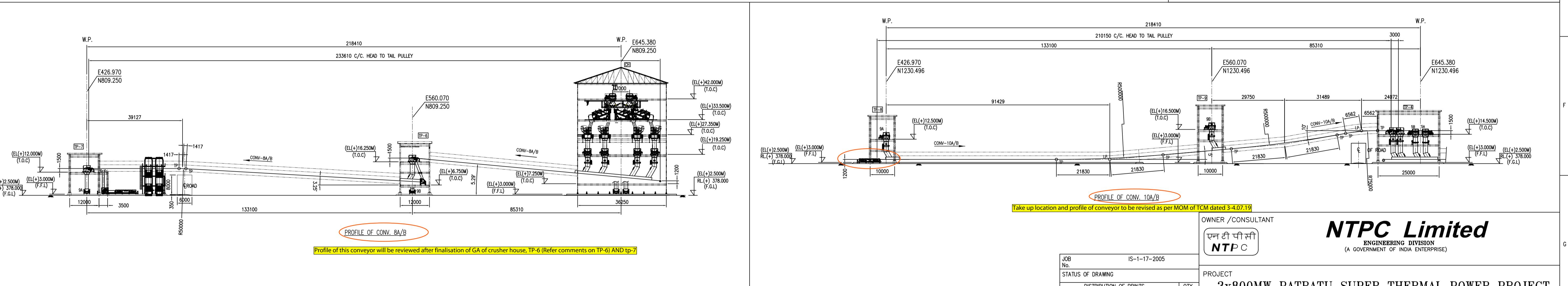
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PROFILE OF CONV. 3A/B

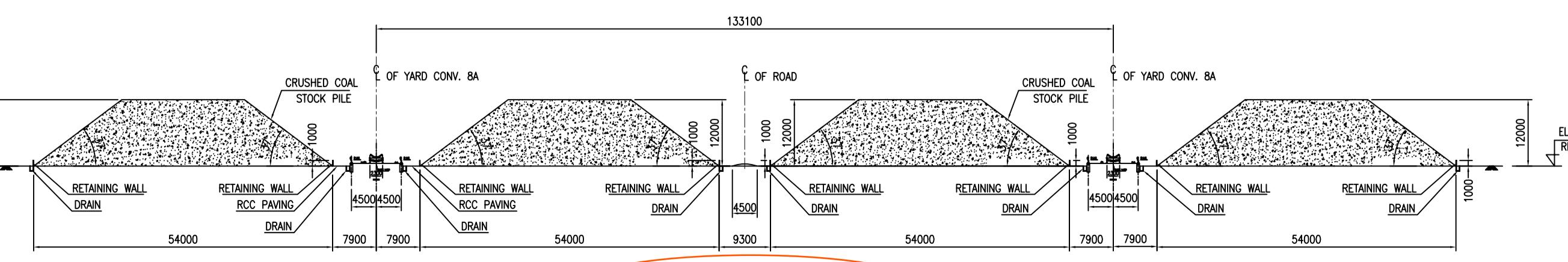


PROFILE OF CONV. 5A/B



Take up location and profile of conveyor to be revised as per MOM of TCM dated 3-4.07.19

Profile of this conveyor will be reviewed after finalisation of GA of crusher house, TP-6 (Refer comments on TP-6) AND tp



CROSS SECTION OF COAL STOCKPILES

NTPC Limited

ENGINEERING DIVISION
(A GOVERNMENT OF INDIA ENTERPRISE)

HARAT HEAVY ELECTRICALS LTD.

INDUSTRIAL SYSTEMS GROUP, BANGALORE

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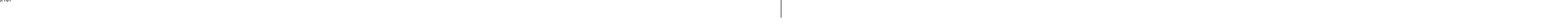
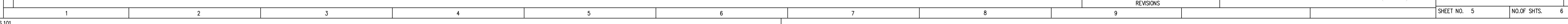
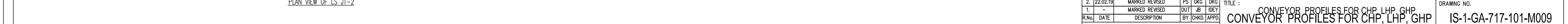
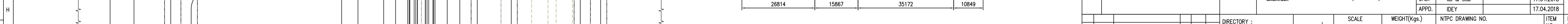
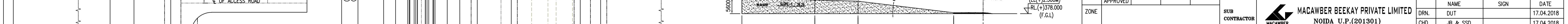
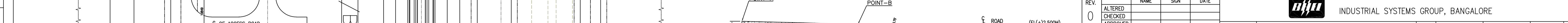
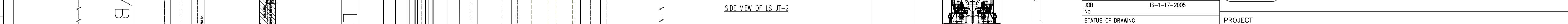
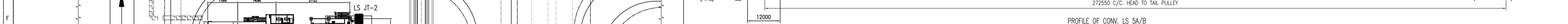
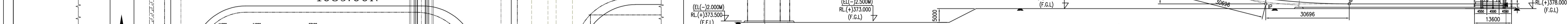
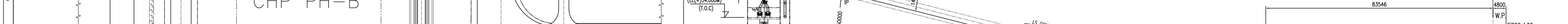
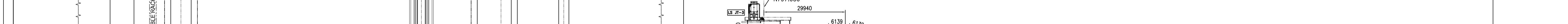
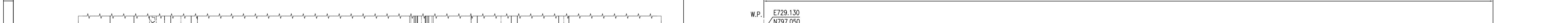
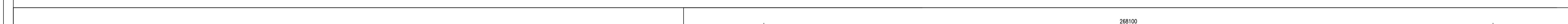
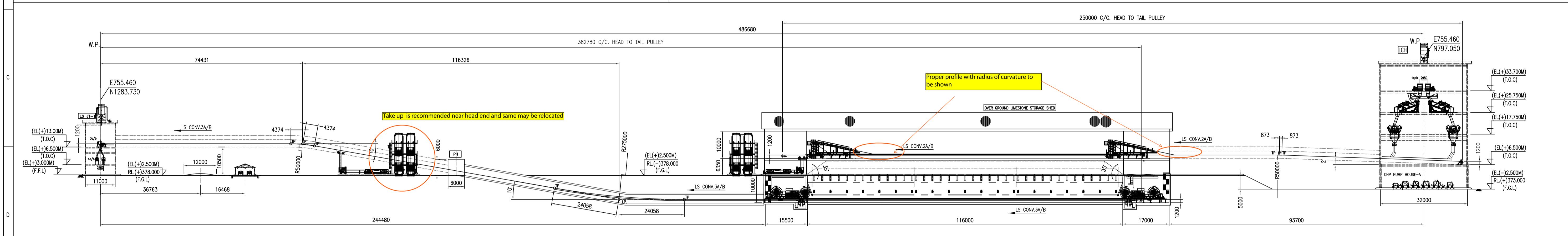
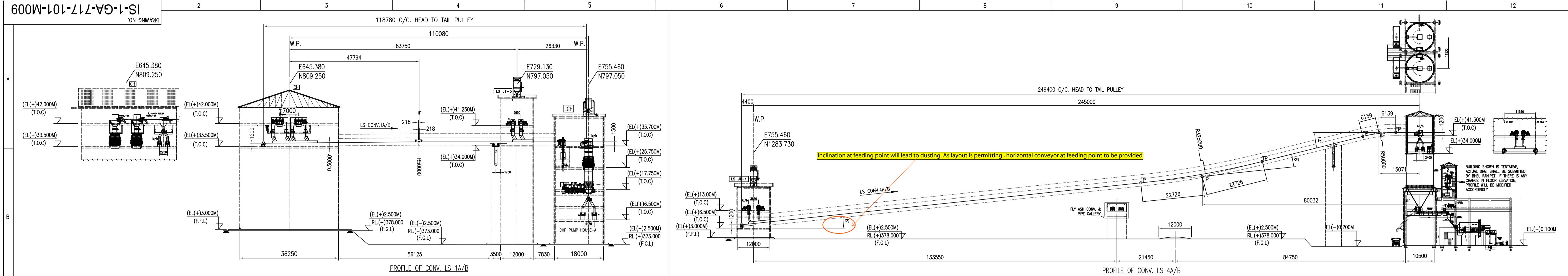
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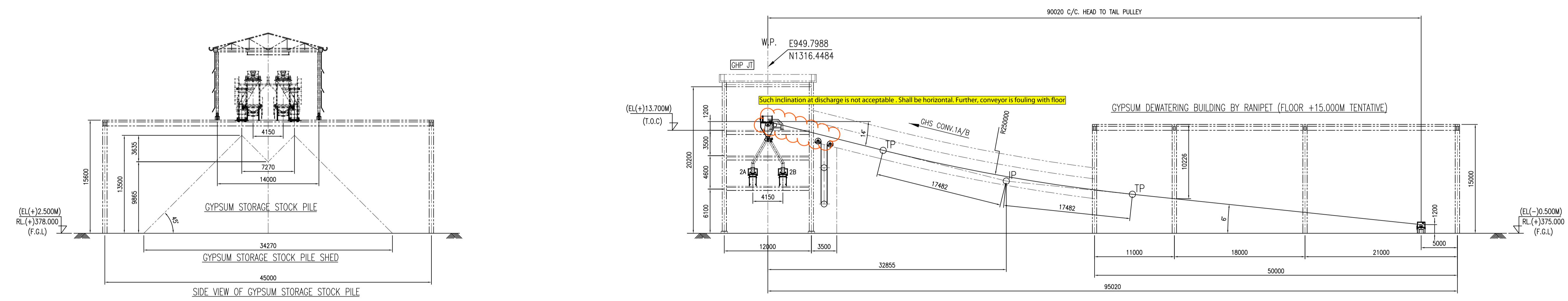
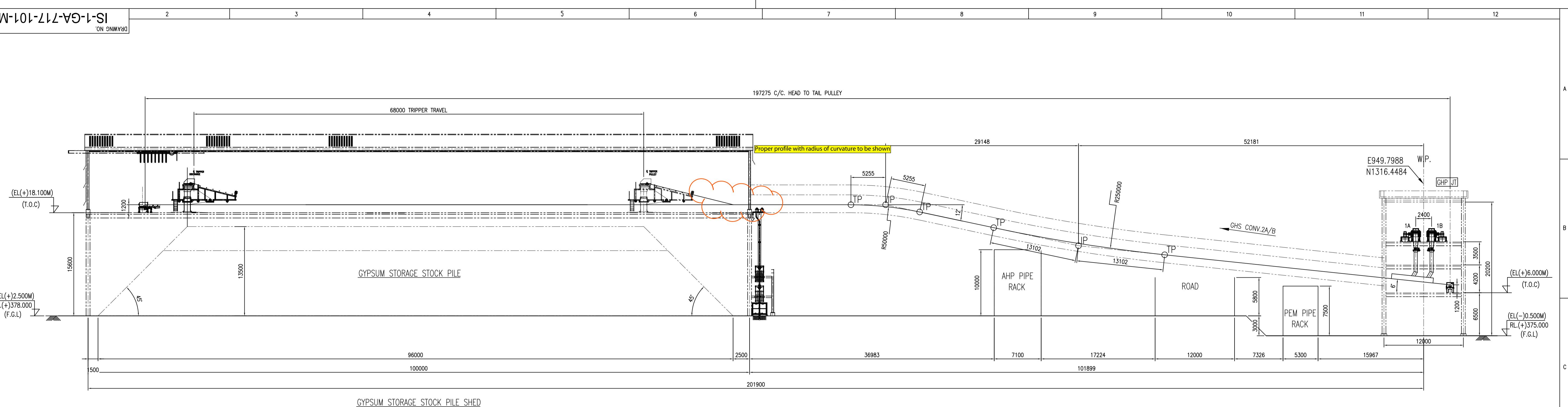
OWNER /CONSULTANT
એન ટી પી સી
NTPC

NTPC Limited

ENGINEERING DIVISION
(A GOVERNMENT OF INDIA ENTERPRISE)

<p>PROJECT 3x800MW PATRATU SUPER THERMAL POWER PROJECT (PHASE-I)</p>							
 <p>BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE</p>							
<p>SUB CONTRACTOR</p>	 <p>MACAWBER BEEKAY PRIVATE LIMITED NOIDA U.P.(201301)</p>		NAME	SIGN	DATE	<p>NO.OF VAR</p>	
		DRN.	DUT		17.04.2018		
		CHD.	JB & SSD		17.04.2018		
		APPD.	IDEY		17.04.2018		
<p>DIRECTORY :</p>			<p>SCALE N.T.S.</p>	<p>WEIGHT(Kgs.)</p>	<p>NTPC DRAWING NO. 9585-001-155-PVM-B-009</p>	<p>ITEM NO.</p>	<p>NO.OF ITEMS</p>
<p>FILE NO. :</p>							
<p>TITLE : CONVEYOR PROFILES FOR CHP, LHP, GHP</p>					<p>DRAWING NO. IS-1-GA-717-101-M009</p>		<p>REV. 02</p>
			<p>SHEET NO. 4</p>		<p>NO.OF SHTS. 6</p>		





Single line flow diagram is of GHS is not yet finalised, hence layout is also not yet finalised. Further conveyor profile can be reviewed after finalisation of JT's and stock pile details

JOB NO. IS-1-17-2005					OWNER /CONSULTANT एन टी पी सी NTPC		NTPC Limited ENGINEERING DIVISION (A GOVERNMENT OF INDIA ENTERPRISE)						
STATUS OF DRAWING					PROJECT 3x800MW PATRATU SUPER THERMAL POWER PROJECT (PHASE-I)								
DISTRIBUTION OF PRINTS QTY.													
REV. 0			NAME	SIGN	DATE								
	ALTERED												
	CHECKED												
	APPROVED												
ZONE						SUB CONTRACTOR  MACAWBER	BHARAT HEAVY ELECTRICALS LTD.						
							MACAWBER BEEKAY PRIVATE LIMITED NOIDA U.P.(201301)						NAME
		DIRECTORY :			SCALE N.T.S.	WEIGHT(Kgs.)		NTPC DRAWING NO.			ITEM NO.	NO.OF ITEMS	
2.	22.02.19	MARKED REVISED		PS	GKG	DKG	TITLE : CONVEYOR PROFILES FOR CHP, LHP, GHP		DRAWING NO.			REV. 02	
1.	-	MARKED REVISED		DUT	JB	IDEY			IS-1-GA-717-101-M009				
R.No.	DATE	DESCRIPTION		BY	CHKD.	APPD.			SHEET NO. 5			NO.OF SHTS. 6	
REVISIONS													



COMPLIANCE SHEET FOR DRAWINGS / DOCUMENTS

OWNER	NTPC LIMITED		
CUSTOMER	BHEL		
PROJECT	3 X 800MW, Patratu Super Thermal Power Project, Stage - I, Jharkhand		
Title	Conveyor Profiles for CHP, LHP, GHP	DATE	12-Mar-19
Doc NO.	IS-1-GA-717-101-M009	REV	1
Sl. No.	NTPC Comments	Clarifications	

Sheet 1 Of 6

1	1. M/s BHEL shall review and incorporate the changes during detailed engineering stage of individual equipment GAs. Building sizing shall be in such way to accommodate dimensional / Load changes while finalizing equipment.	1. Noted and confirmed, same has been incorporated in notes. 2. All building size shall be as per NTPC approved GA drawing of respective buildings. 3. Noted and confirmed 4. Noted and confirmed subject to NTPC specification.
	2. M/s BHEL is to confirm that proposed building sizes are based on technical specification requirement(including clarifications and amendments issued).	
	3. Building internal floors/openings shall be designed in accordance with finalization of equipment to be installed on that particular floor. 'Hold on' intermediate floor levels of buildings are to be finalized by M/s BHEL during detailed engineering stage.	
	4. M/s BHEL shall duly take care of any changes in building details while finalizing the conveyor GA / Equipment GA without any commercial implication to M/s NTPC.	

Sheet 2 of 6

1	Check the centre line distance. It seems low for belt width of 2000 mm and considering proportionate track hopper table width. Refer comments on cross section of gallery and revise accordingly	Revised as finalized in meeting held in NTPC Noida.
2	Height between floors to be checked & revised by BHEL as per point no.6 of MOM dated 07-08.09.18	Being adjusted in GA drgs. of buildings as per requirement
3	Check & revise the elevation considering required clearance for installation of ILMS. Shall needs to be finalized after taking into consideration the dimensions of the equipment	All top levels are removed and shall be as per approved mechanical GA drawings.

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Title	Conveyor Profiles for CHP, LHP, GHP	DATE	12-Mar-19
Doc NO.	IS-1-GA-717-101-M009	REV	1
Sl. No.	NTPC Comments	Clarifications	
4	Refer comments on TP-3 regarding height between floors. and check conveyor profile	Arrangement revised however given height is sufficient. Request you to recheck the same.	
5	Check for handling clearance. The equipment under maintenance may need to be handled with hoist over running equipment. Considering size of the equipment to be handled, it needs to revise the floor height.	Arrangement revised however we ensure to take care, if any increase in building size during approval.	
6	Height between floor of belt feeder floor and crusher floor appears to be very low. It may be noted that with this, clear height between bottom of crusher floor beam and belt feeder floor will not be adequate. Further floor height between crusher floor & VF floor and also between drive floor & VF floor is not adequate to get required clear head room for handling of equipments. BHEL to check and revise considering actual clear head room between floors for handling of equipment by monorail hoist meeting the requirement of specification. This has also been commented in earlier rev.	All floor levels are revised considering maintenance requirement. Also note that crusher will be handled from the vibrating feeder floor.	
7	With this arrangement, system operation flexibility is reduced. With common chute, system in 50% capacity whenever required can not be run with single crusher. Hence as commented in previous rev. common discharge chute for two belt feeder is not acceptable	It is not common chute. For better clarity, request you to refer key plan shown in drawing.	
8	shall be restricted to 6 deg, Revise conveyor profile accordingly. Also refer comments regarding height of crusher house and revise profile of conveyor and tail pulley floor level of TP-3 and hence drive floor level, if required	Revised to 6 Deg	
Sheet 3 Of 6			
1	(typ) Independent monorail hoist shall needs to be provided for each ILMS. Accordingly M/s BHEL to take care of layout and drive floor plan.	Top level of building removed. It shall be as per NTPC approved Mech GA drg	
2	REFER COMMENTS ON SHEET 2	shall be as per approved GA of crusher house.	

OWNER	NTPC LIMITED		
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Doc NO.	IS-1-GA-717-101-M009	REV	1
Sl. No.	NTPC Comments	Clarifications	
3	Refer comments on sheet-4 and check & revise discharge floor level. Accordingly revise C-5A/B & 6 A/B	Keep as per requirement however if any changes during building approval, same shall be taken care.	
4	Check and restrict the inclination at loading point to minimum possible	Inclination of the conveyor will be 14 Deg which was already explained during meeting at NTPC Noida.	

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Doc NO.	IS-1-GA-717-101-M009	REV	1
Sl. No.	NTPC Comments	Clarifications	

Sheet 4 of 6

1	Check and revise as per comments on conveyor profile of BCN-9B	Shall be as per approval of stockyard layout.
2	curvature zone should not be within stacker travel zone. It may be noted that stacker travel zone is to be considered up to the buffer stopper. Revise accordingly	Shall be as per approval of stockyard layout.
3	Check as per comments on conveyor profile of 9B and its effect on TP-9 & conveyor 10A/B. And revise accordingly	Shall be as per approval of stockyard layout.
4	AT FEEDING POINT ANGLE SHOULD RESTRICT TO 60	revised
5	Refer comments on conveyor profile of 9B and check and revise conveyor profile of 10A/B accordingly	Shall be as per approval of stockyard layout.
6	1. There should be clear walkway of atleast 1500mm between drain and retaining wall. 2. Space for Pipe pedestal to be considered. Considering above, revise	Revised

Sheet 5 of 6

1	REFER COMMENTS ON SHEET 2	Revised accordingly
2	GTU within TP at feeding point is not acceptable.	Revised location
3	Provide T/U nearer to head end	Due to more travel length, it is kept away from the road.

Sheet 6 of 6

1	All the conveyor profile of GYPSUM & Limestone shall be reviewed in details during detailed engineering.	Noted
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MBPL CORRECTION

1	All conveyor profile was rechecked with calculation and required height for the maintenance and revised accordingly.
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