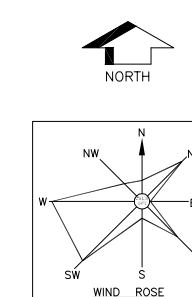
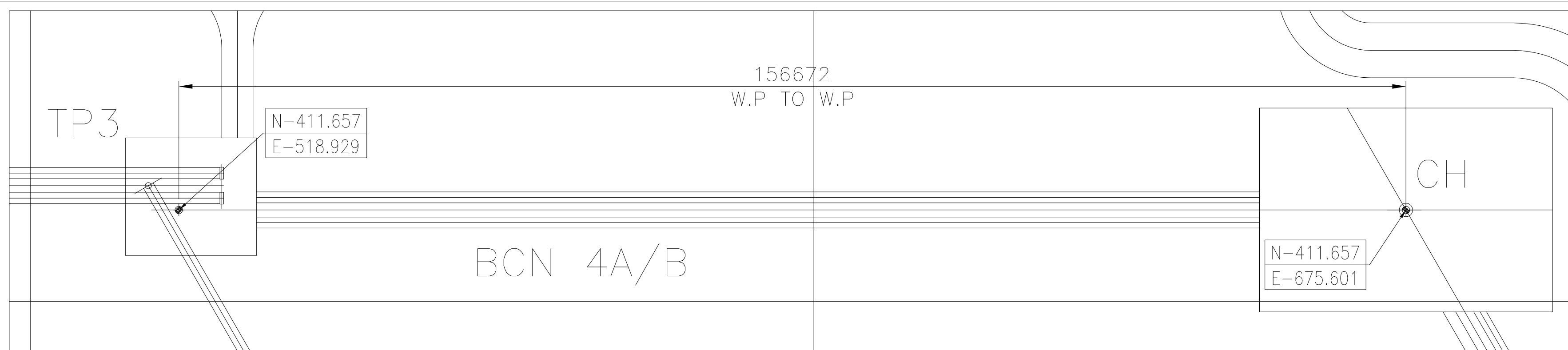
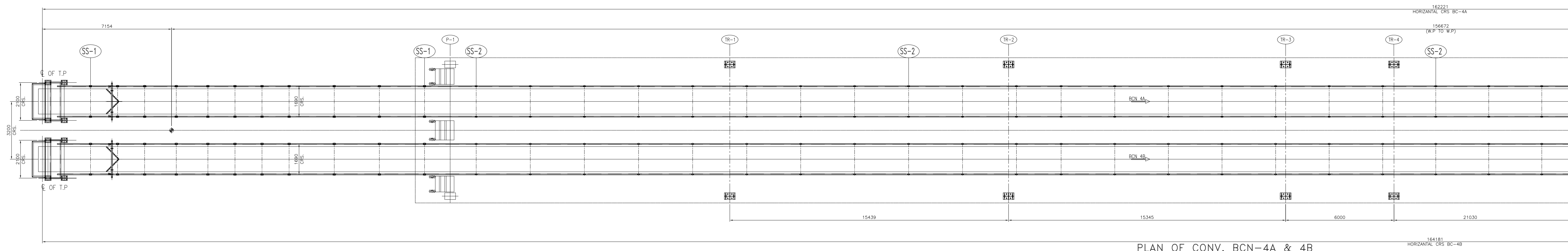
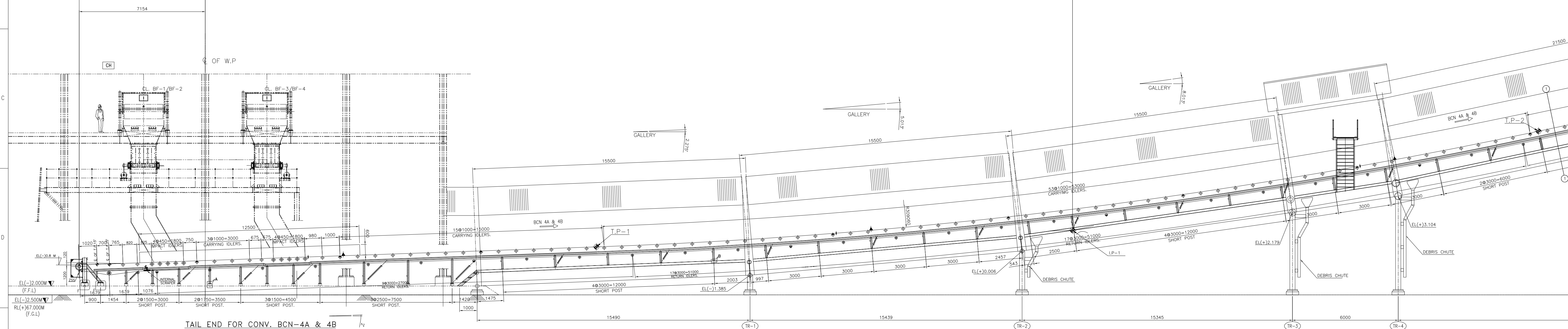


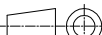
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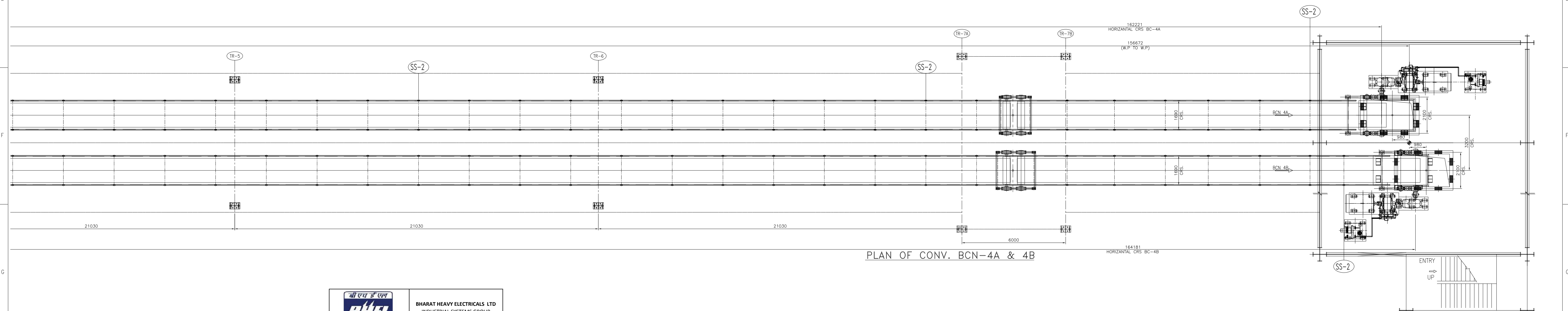
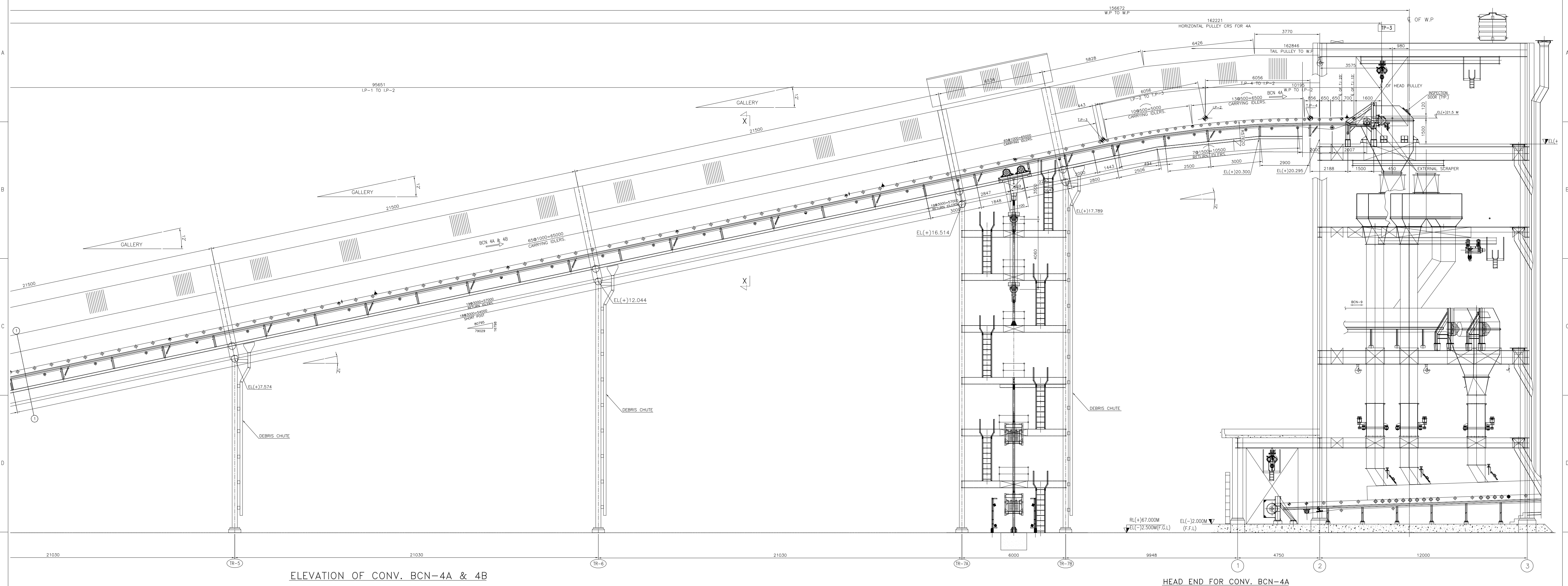
NOTES:-

- NOTES:-
1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS.
2. FOR LOAD DATA AND OTHER NOTES REFER SHEET 3 OF 6

01	11.5.15	REVISED AS PER TSGENCO/DESEIN COMMENTS		
R.No:	DATE	BRIEF RECORD	BY	APP
REVISIONS				

OWNER:	TELANGANA STATE POWER GENERATION CORPORATION LTD. HYDERABAD – TELANGANA, INDIA							
CONSULTANT	DESEIN PRIVATE LIMITED							
PROJECT :	BHADRADRI THERMAL POWER STATION 4 X 270 MW, UNITS-1 TO 4, MANUGURU, TELANGANA, INDIA							
EPC CONTRACTOR	BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL SYSTEMS GROUP ISG-BANGALORE				NAME	SIGN	DATE	REV
				DRN	BMH		03.08.15	
				CHD	MNK		03.08.15	NO. OF VARS
				APP	RSP/VSD		03.08.15	
		TITLE :					TOTAL SHEETS	06
APPD	GA AND LOAD DATA OF BCN-4A & 4B					SHEET.	01	
SCALE	BHEL JOB NO.	IS-1-14-2007	BHEL-ISG DRG.No.:	IS-1-GA-691-101-M011			REV	01

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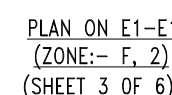
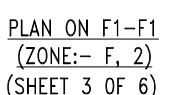
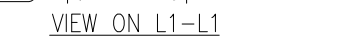


NOTES:-

1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS.
2. FOR LOAD DATA AND OTHER NOTES REFER SHEET 3 OF 6

01	11.5.15	REVISED AS PER TSGENCO/DESEIN COMMENTS		
R.No:	DATE	BRIEF RECORD	BY	APP
REVISIONS				
9				

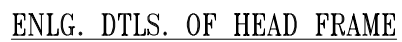
OWNER:		TELANGANA STATE POWER GENERATION CORPORATION LTD. HYDERABAD – TELANGANA, INDIA										
CONSULTANT		DESEIN PRIVATE LIMITED										
PROJECT :		BHADRADRI THERMAL POWER STATION 4 X 270 MW, UNITS-1 TO 4, MANUGURU, TELANGANA, INDIA										
EPC CONTRACTOR		BHARAT HEAVY ELECTRICALS LIMITED						DRN.	NAME	SIGN	DATE	REV.
		INDUSTRIAL SYSTEMS GROUP						CHD.	MNK		03.08.15	NO. OF VAR
		ISG-BANGALORE						APP.	RSP/VSD		03.08.15	
		TITLE :						TOTAL SHEETS				06
		GA AND LOAD DATA OF BCN-4A & 4B						SHEET. NO.				02
SCALE		BHEL JOB NO. IS-14-2007				BHEL-ISG IS-1-GA-691-101-M011				REV.		01



LEGEND FOR CONVEYOR		
	CARRYING IDLER	C.I
	TRANSITION IDLER	T.I
	RETURN IDLER	R.I
	IMPACT IDLER	I.I
	SELF ALIGNING CARRYING IDLER	S.A.C.I
	SELF ALIGNING RETURN IDLER	S.A.R.I
	DEFLECTOR ROLLER	D.R
	PULL CHORD SWITCH	PCS
	BELT SWAY SWITCH	BSS
	ZERO SPEED SWITCH	ZSS
	WORKING POINT	W.P
	HEAD PULLEY	H.P
	TAIL PULLEY	T.P
	BEND PULLEY	B.P

1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS.
2. THE FINISHED FLOOR LEVEL (F.F.L) OF POWER HOUSE BUILDING GROUND FLOOR IS EL. 0.00M WHICH CORRESPONDS TO RL 69.5M I.E. 0.5M ABOVE FGL.
3. BOILER AREA FINISHED GRADED LEVEL IS 200MM BELOW 0.0M I.E. RL 69.3M.
4. TRANSFORMER YARD FINISHED GRADED LEVEL IS 100MM BELOW 0.0M I.E. RL 69.4M.
5. STEPPED WALKWAY , IF CONVEYOR INCLINATION IS MORE THAN 8°.
6. THE DRIVE DIMENSIONS ARE TENTATIVE & LEVELS AS MARKED * & SHALL BE FINALIZED AFTER GETTING APPROVAL FROM THE DRGS.
7. GALLERY SUPPORTS ARE TENTATIVE TYPES AND TRESTLE LOCATIONS INDICATED IN THIS DRG. ARE TENTATIVE AND FINALLY THEY SHALL BE AS PER STRUCTURAL DRGS.
8. CIVIL REQUIREMENT INDICATED TENTATIVE.

01	11.5.15	REVISED AS PER TSGENCO/DESEIN COMMENTS		
R.No:	DATE	BRIEF RECORD	BY	APPD
REVISIONS				



TECHNICAL SPECIFICATION					QTY FOR EACH	MAKE
CONVEYOR	IS:1192	CONVEYOR NO./EQUIPMENT NO.		BCN-4A/4B		
		RATED CAPACITY/DESIGN CAPACITY (T.P.H)		1400/1400		
		BELT WIDTH (MM)/TROUGHING ANGLE		1400/35°		
		VERTICAL LIFT (M)		22.300		
		HORIZONTAL CRS. (M)		163.32M/164.181M		
		PROFILE LENGTH (MM)		336.577M/340.536M		
		ENDLESS BELT LENGTH (CONSIDERING SAG) (MM)		351M		
		SPEED (M/SEC.)		2.7		
		MATERIAL		COAL		
				0.8		
MATERIAL HANDLED	IS:1891	BULK DENSITY FOR CONVEYOR SIZING (TON/CU.M)		1.2		
		FOR STRUCTURAL DESIGN (TON/CU.M)		1.2		
		LUMP SIZE (MM)		(-)20		
		MOISTURE CONTENT		20%		
		MATERIAL TEMP.		AMBIENT (MAX. 50°)		
		TYPE		N/N		
		RATING		800/4		
		TOP COVER THICKNESS (MM)		5		
		BOTTOM COVER THICKNESS (MM)		3		
		BELT TENSION (KV)		T1=78.01, T2=26.88		
BELT	IS:1891	TYPE OF JOINT		VULCANIZED		
		TYPE		TEFC, IE2, IP55		1 No.
		POWER RATING(KW)/RPM/FRAME SIZE		200		
		SUPPLY VOLTAGE / DUTY		6.6 KV,3PHASE,50Hz		
		TYPE		BEVEL HELICAL		1 No.
		MODEL NO.		-		
		HOLD BACK		YES		
		MATERIAL		-		
		MECHANICAL RATING KW		-		
		TYPE		NA		
DRIVE DETAILS	IS:1891	TYPE/SIZE		TRACTION		1 No.
		RATING KW		-		
		TYPE/SIZE		-		
		RATING KW/100 rpm		-		
		TYPE		VGTU		
		TRAVEL (MM)		4060		
		COUNTER WEIGHT (N KG)		-		
		DRIVE		#524		1 No.
		TAIL		#420		1 No.
		TAKE-UP		#420		1 No.
PALLETS (IS:8531)	IS:8531	BEND		#420		2 Nos.
		SNUB		#420		1 No.
		DRIVE PULLEY		12 MM SHORE, DIAMOND GROOVE		
		ALL OTHER PULLEYS		10 MM PLAIN NATURAL RUBBER		
		3 ROLL 15% TRANSITION IDLERS		#152.4 ERW x.85THK. MS PIPE		2 Nos.
		3 ROLL 35% TRANSITION IDLERS		#152.4 ERW x.85THK. MS PIPE		2 Nos.
		3 ROLL 35% CARRYING IDLERS		#152.4 ERW x.85THK. MS PIPE		154/156 Nos.
		3 ROLL 35% IMPACT IDLERS		#139.7 ERW x.85THK. MS PIPE, OD #190		10 Nos.
		3 ROLL 35% SELF ALIGNING CARRYING IDLERS		#152.4 ERW x.85THK. MS PIPE		16 Nos.
		1 ROLL RETURN IDLER		#152.4 ERW x.85THK. MS PIPE		48/49 Nos.
IDLERS (IS:8596)	IS:8596	1 ROLL SELF ALIGNING RETURN IDLER		#152.4 ERW x.85THK. MS PIPE		9 Nos.
		DEFLECTOR ROLLER		#219+6MM THK. MS. PLATE		2 Nos.
		INTERNAL SCRAPER TYPE		V-PLOUGH TYPE		1 No.
		EXTERNAL SCRAPER TYPE		PRIMARY WITH MULTI BLADE SPURION TYPE		1 No.
		PRIMARY		SECONDARY WITH TORSION ARM		1 No.
		SKIRT BOARD		12.5 M		1 EACH
		DECK PLATE		3.15MM THK. MS THROUGHOUT		1 LOT.
		HEAD FRAME, TAIL FRAME & DRIVE BASE FRAME		-		1 EACH
		BEND FRAME		-		1 EACH
		STRINGER		ISM-125		1 LOT
MISCELLANEOUS INFORMATION	IS:8596	SHORT SUPPORT		ISM-100		1 LOT
		PULL CORD SWITCH /LOCATION		30 M SPACING		6 PAIRS
		BELT SWAY SWITCH/LOCATION		30 M SPACING		6 PAIRS
		ZERO SPEED SWITCH/LOCATION		ONE FOR EACH CONVEYOR MOUNTED AT TAIL PULLEY		1 NO.

[illegible]

REFERENCE	DRAWINGS/DOCUMENTS
DRG. NO.	DESCRIPTION
IS-0-PL-691-100-M001	PLOT PLAN OF COAL HANDLING PLANT
IS-1-FL-691-100-M002	COAL FLOW DIAGRAM
IS-1-GA-691-100-M003	TYPICAL GALLERY CROSS-SECTIONS OF GALLERIES & TUNNELS
IS-1-GA-691-104-M021	MECHANICAL GA & LOAD DATA OF TP-3
IS-1-GA-691-104-M024	MECHANICAL GA CRUSHER HOUSE



CONSULTANT



PROJECT :



CONTRACTOR

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[illegible]

SCALE

TELANGANA STATE POWER GENERATION CORPORATION LTD.
HYDERABAD – TELANGANA, INDIA
DESEIN PRIVATE LIMITED

BHADRADRI THERMAL POWER STATION
4 X 270 MW, UNITS-1 TO 4, MANUGURU, TELANGANA, INDIA

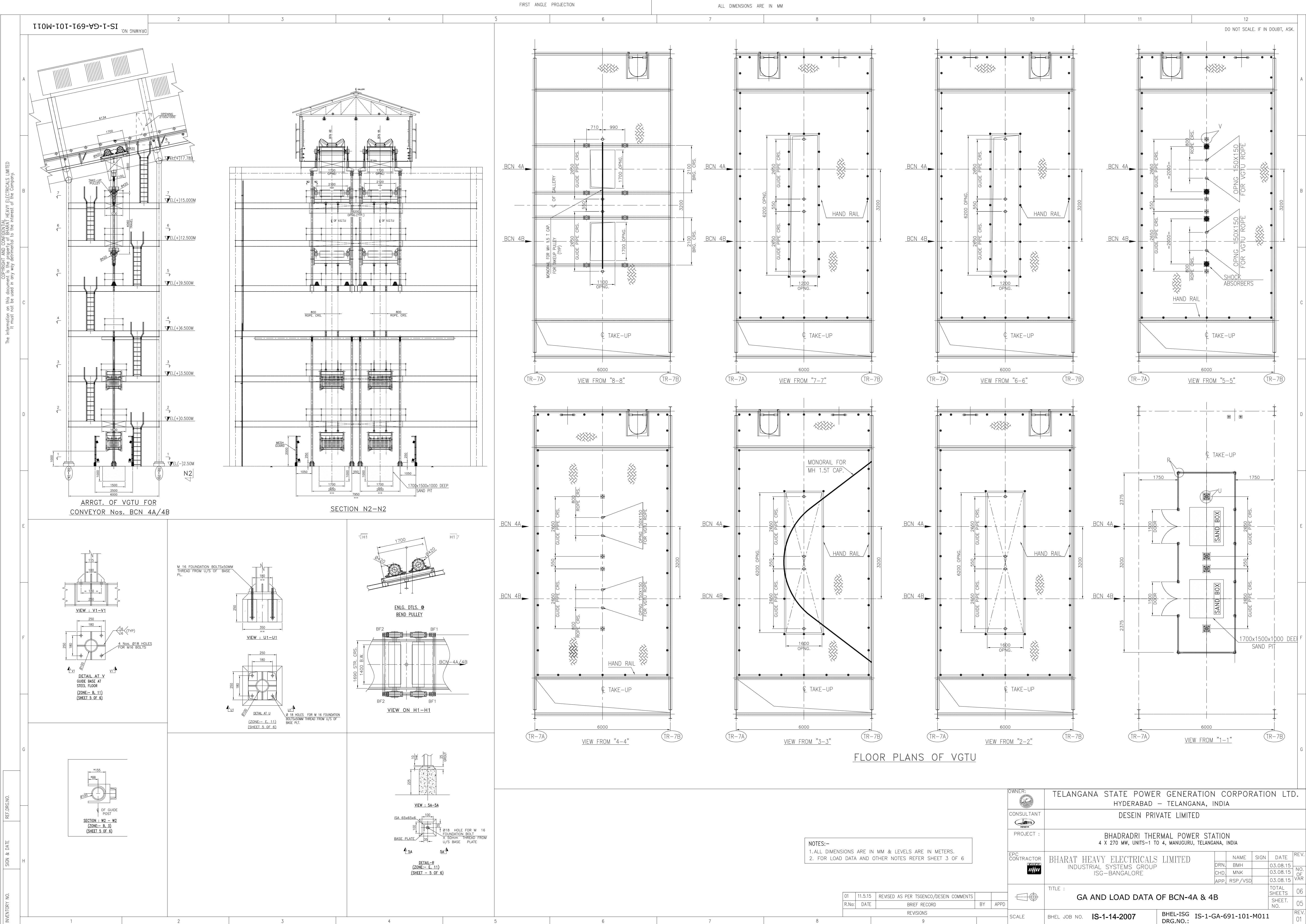
BHARAT HEAVY ELECTRICALS LIMITED
 INDUSTRIAL SYSTEMS GROUP
 ISG-BANGALORE

	NAME	SIGN	DATE	REV
DRN.	BMH		03.08.15	NO. OF VAR
CHD.	MNK		03.08.15	
APP.	RSP/VSD		03.08.15	

GA AND LOAD DATA OF BCN-4A & 4B

HEL JOB NO.	IS-1-14-2007	BHEL-ISG DRG.NO.:	IS-1-GA-691-101-M011
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SIZE-A

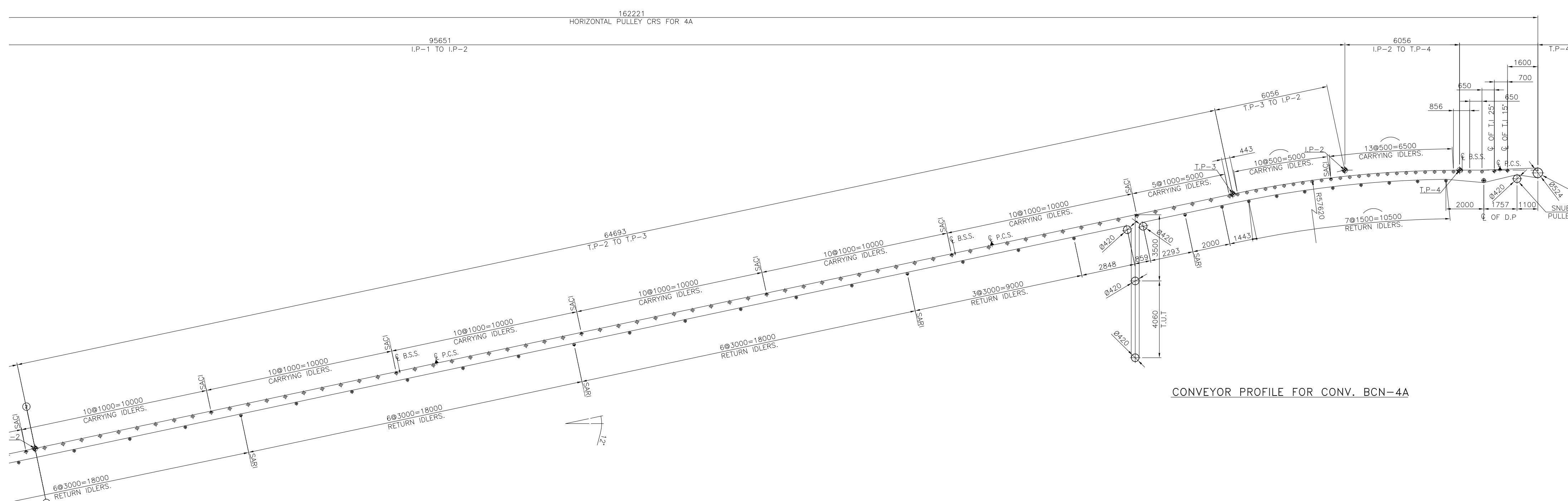
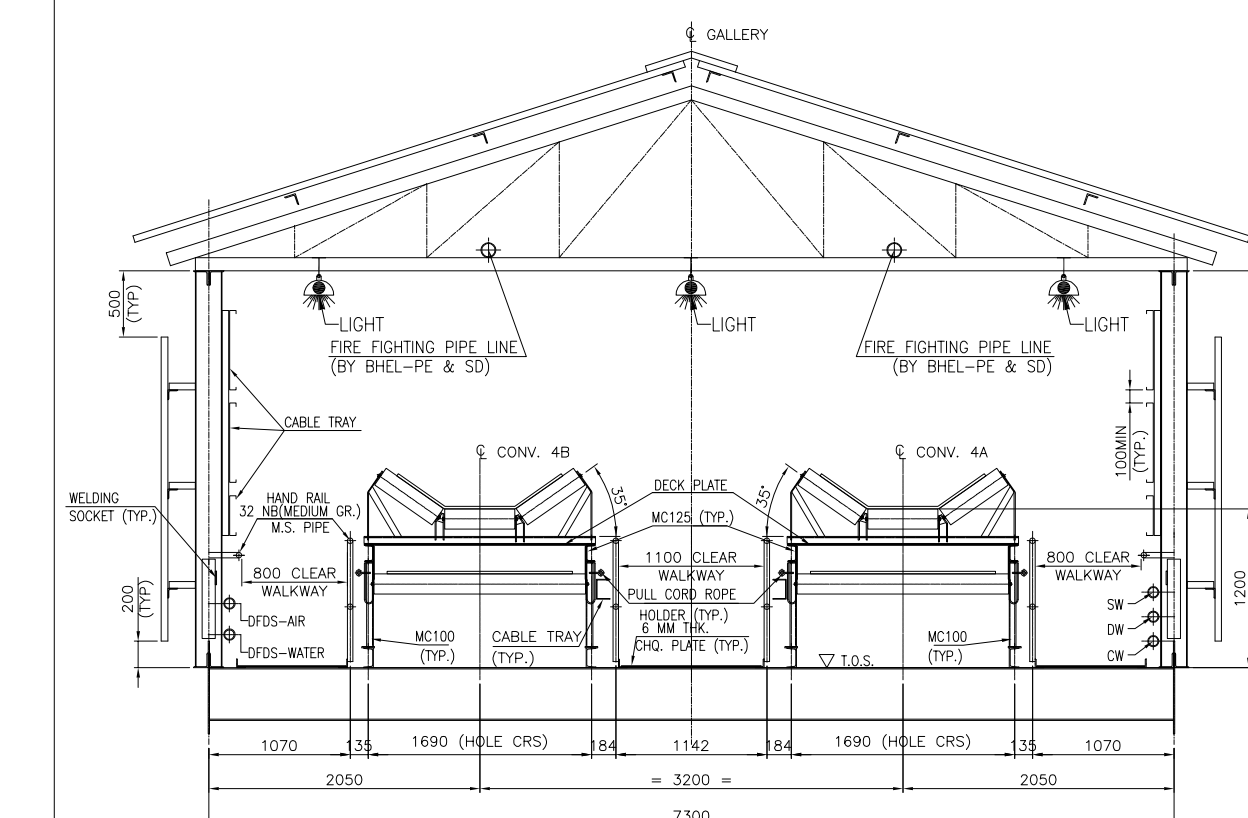
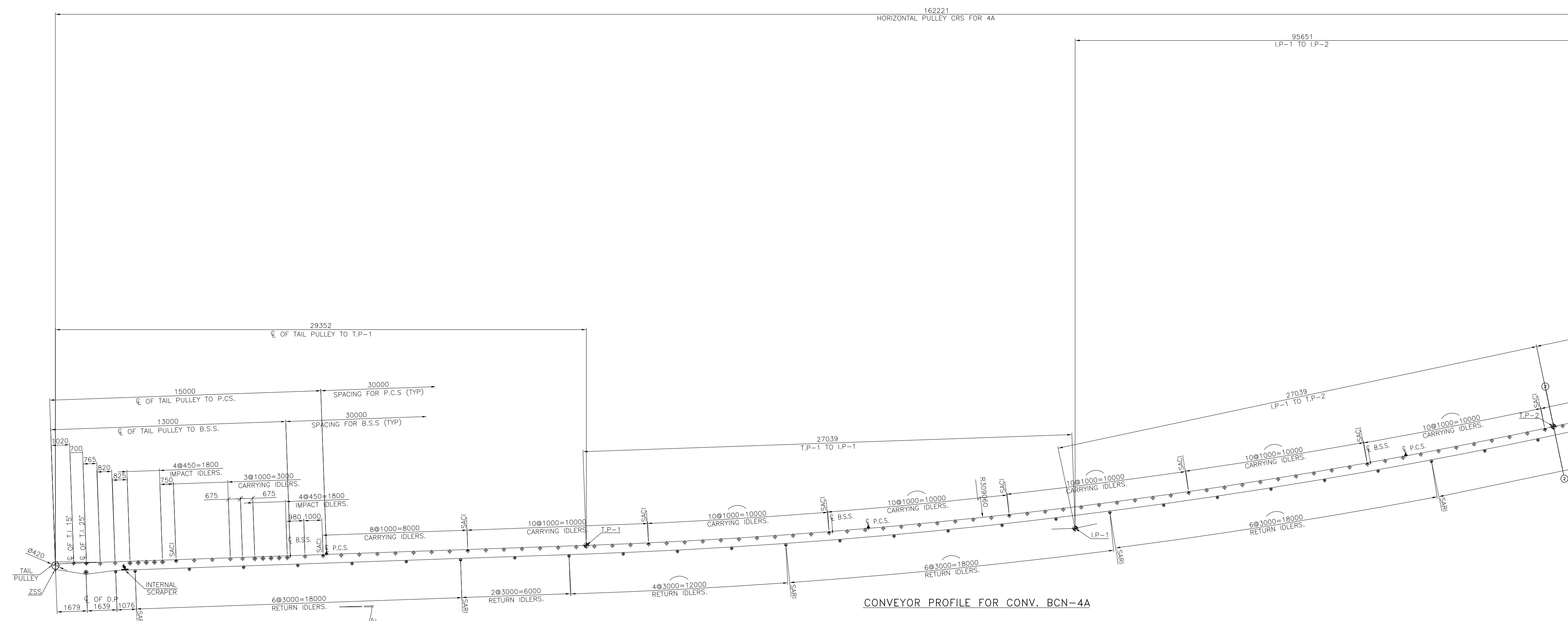


IS-1-GA-691-101-M011

DRAWING NO.

DO NOT SCALE. IF IN DOUBT, ASK.

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NOTES:-

1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS.
2. FOR LOAD DATA AND OTHER NOTES REFER SHEET 3 OF 6

OWNER:	 TELANGANA STATE POWER GENERATION CORPORATION LTD. HYDRABAD – TELANGANA, INDIA										
CONSULTANT	 DEESIN PRIVATE LIMITED										
PROJECT :	BHADRADRI THERMAL POWER STATION 4 X 270 MW, UNITS-1 TO 4, MANUGURU, TELANGANA, INDIA										
EPC CONTRACTOR	 BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL SYSTEMS GROUP ISG-BANGALORE						NAME	SIGN	DATE	REV	
							DRN	BMH		03.08.15	NO. OF VARS
							CHD	MNK		03.08.15	
							APP	RSP /VSD		03.08.15	
	TITLE : GA AND LOAD DATA OF BCN-4A & 4B								TOTAL SHEETS	06	
APPD									SHEET.	06	
SCALE	BHEL JOB NO. IS-1-14-2007				BHEL-ISG DRG.NO.: IS-1-GA-691-101-M011					REV	

Project : BHADRADRI POWER 4x270MW TELANGANA
Client : TELANGANA STATE POWER GENERATION CORPORATION LTD.
Consultant : DESEIN PRIVATE LTD.
Contractor : BHARAT HEAVY ELECTRICALS LTD.

COMPLIANCE TO COMMENTS OF DESEIN

ON GA DRAWINGS OF BCN4AB, R0 SUBMITTED BY BHEL FOR APPROVAL

Ref:	Comments made on GA Drawing prints of BCN-4AB, R0 by DESEIN		
SL NO	DESEIN COMMENTS.	COMPLIANCE / CLARIFICATIONS BY BHEL	REMARKS
1	Drawing fonts shall be increased.....	Noted & revised.	
2	Coordinates shall be marked in the drawing	Noted & revised.	
3	Finished ground level (FGL) of coal handling area shall be indicated in the notes.	Noted & revised.	
4	All * marked data shall be confirmed and notes may be corrected accordingly.	Whenever possible revised at this stage. However, it shall be taken care before release of drgs to site for civil work.	
5	All details in technical specification shall be included.	Indicated other than makes of bought out items. We are awaiting approval of sub-vendor list still. However, we ensure that it shall be taken care before release of drgs to site for civil / structural work.	
6	Refer Legend: All symbols shall be indicated	Noted & revised.	
7	Spacing of Self aligning carrying idlers shall be 5 m from either ends and 10 m throughout conveyor	Noted & revised accordingly.	
8	Spacing of Self aligning return idlers shall be 10 m from either ends and 20 m throughout conveyors	Noted & revised accordingly.	
9	Maximum gap of transition idlers shall be 700mm	Noted & revised.	
10	Deflector roller, drive pulley & snub pulley shall be indicated in the drawing.	Noted & revised.	
11	Indicate brake details and provide coasting time calculations for the same.	Not applicable for BCN-4AB. Refer coasting time calculations submitted already.	
12	Pull cord switch shall be provided on both sides of conveyor.	Noted & revised.	
13	Belt sway switch shall be provided in pairs	Noted & revised.	
14	Sand pit dimensions in plan and section are not matching	Noted & revised.	
15	Zone location for various details shown shall be marked	Noted & revised.	
16	Take up pulleys, mesh guard, fall arrestor etc shall be indicated in Take up arrangement	Noted & revised.	
17	Each take up shall be provided with a marked cable by side of structure frame to monitor belt stretch.	Marking shall be done on take-up structure frame.	
18	Skirt board and seal plate details shall be indicated in the drawing.	Noted & revised. Seal plate of 3mm min. thick shall be provided in conveyor galleries at road, rail, gallery crossing and while passing over any building/transfer point and in main plant area	
19	External scrapper shall be multi blade sprung type	Noted & revised.	
20	Show horizontal and inclined distances between W.P, T .P & I.P	Noted & revised.	
21	TSGENCO requested & insisted to BHEL ISG, to consider Addressable type Belt sway and Pull cord switches only. BHEL will revert.	The Pull Cord & Belt Sway Switches of all the conveyors except Belt Feeder shall be addressable type.	