

010W-101-80L-VG-1-ST
ON SINKWAD

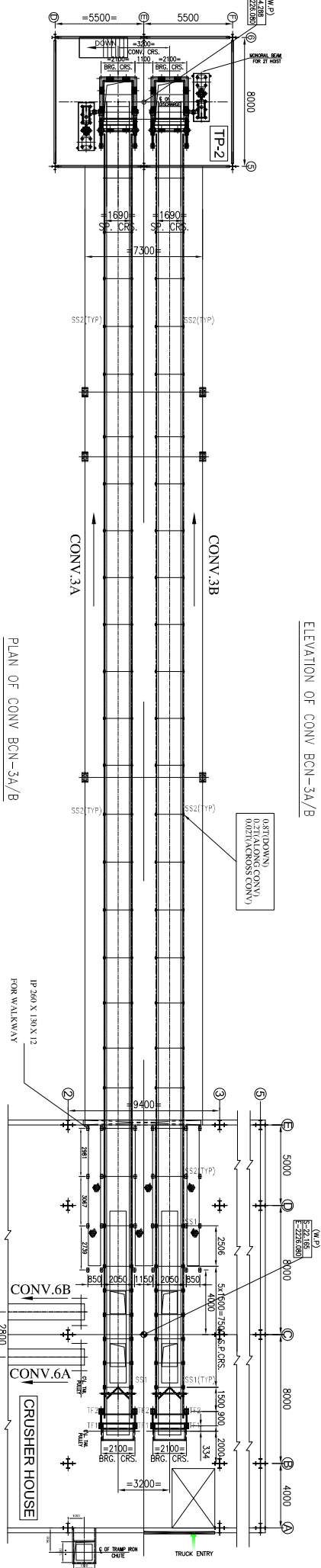
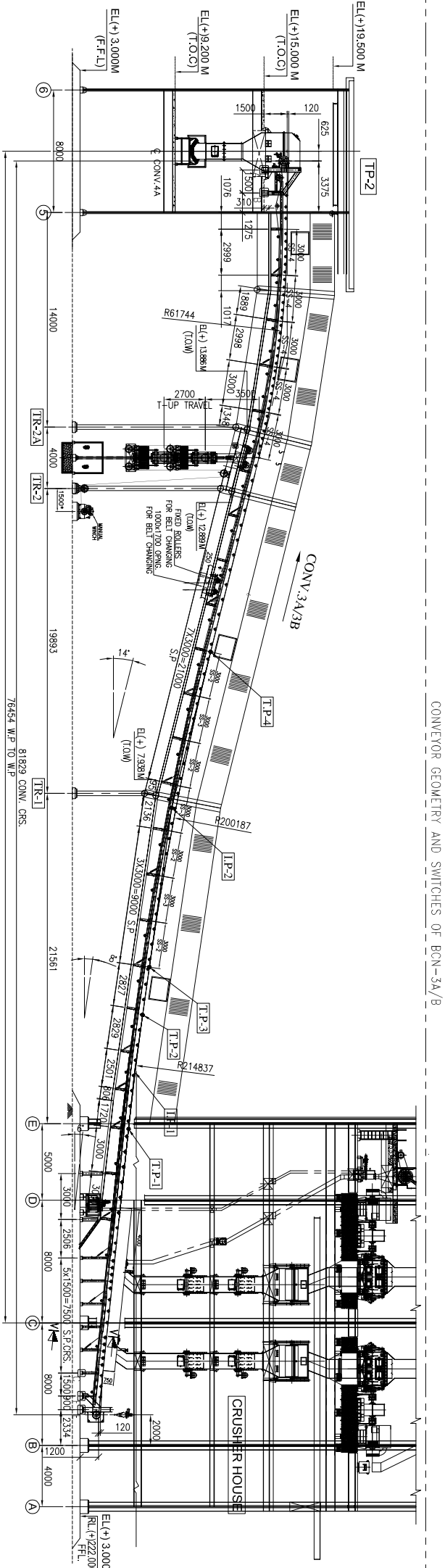
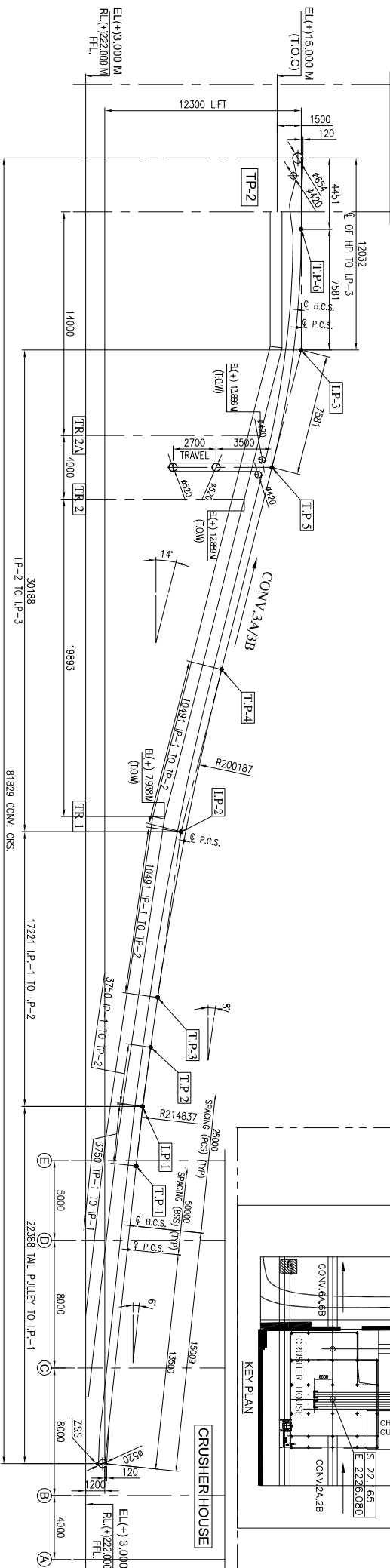
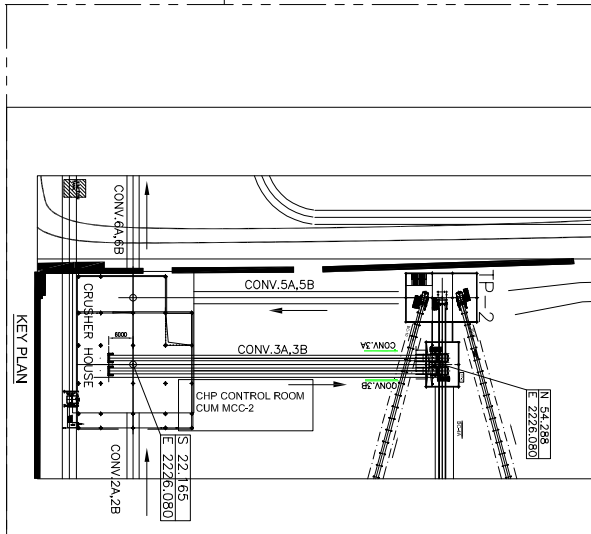
FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN MM

- NOTES:-
- ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS.
 - ALL ELEVATIONS ARE REFERRED TO THE FINISHED FLOOR LEVEL OF POWER HOUSE BUILDING AS EL. 0.00 M WHICH CORRESPONDS TO RL.(+219.0 M. ABOVE MEAN SEA LEVEL.
 - FINISH FLOOR LEVEL CORRESPONDS TO FL OF URBINE HALL BUILDING.
 - FINISH FLOOR LEVEL SHOWN IN THE DRAWING ARE 50MM ABOVE FGL. ALL OTHER LEVELS SHOWN ARE WRT FINISH LEVEL.
 - THE DRIVE DIMENSIONS ARE INDICATIVE ONLY & SHALL BE FINALIZED AFTER GETTING THE DRIVE COMPONENT DRESS.
 - CONVEYOR DRUMS ARE SHOWN AS ESTIMATE LOCATIONS INDICATED IN THIS DRG.
 - CIVIL REQUIREMENT INDICATED TENTATIVE.
 - CURB WALL BE PROVIDED AROUND ALL OPENINGS.
 - INSPECTION DOOR SHALL BE LEAK PROOF.
 - PLEASE REFER THIS DRG WITH SHEET 2 & 3 OF 3
 - (*) MARKED DIMENSIONS ARE UNDER HOLD.

DRG. NO.	DESCRIPTION
IS-0-PL-708-100-M001	COAL FLOW DIAGRAM
IS-1-FL-708-100-M002	LAYOUT OF COAL HANDLING PLANT
IS-1-CA-708-100-M003	TYPICAL GALLERY CROSS-SECTIONS OF GALERIES & TUNNELS
IS-1-CA-708-104-M003	MECHANICAL GA & LOAD DATA OF TP-2
IS-1-CA-708-104-M030	GA OF CRUSHER HOUSE

LEGEND FOR CONVEYOR		
⊕	CARRYING IDLER	C.I
⊕	TRANSITION IDLER	T.I
⊕	2 ROLL RETURN IDLER	R.I
⊕	FLAT RETURN IDLER	F.R.I
⊕	IMPACT IDLER	I.I
⊕	SELF CLEANING RETURN IDLER	S.A.C.I
⊕	RETURN IDLER	R.I
⊕	CARRYING IDLER	C.I
⊕	DEFLECTOR ROLLER	D.R
⊕	PULL CHORD SWITCH	P.C.S
⊕	BELT SWAY SWITCH	B.S.S
⊕	ZERO SPEED SWITCH	Z.S.S
⊕	WORKING POINT	W.P
⊕	HEAD PULLEY	H.P
⊕	TAIL PULLEY	T.P
⊕	BEND PULLEY	B.P



CONVEYOR		TECHNICAL SPECIFICATION		QTY FOR EACH MAKE	
IS:11592		BCN-3A/B		-	
RATED CAPACITY/DESIGN CAPACITY (T.P.H)		1000/1200		-	
BELT WIDTH (MM)/ROUGHING ANGLE		1400/35°		-	
VERTICAL LIFT (M)		12.300		-	
HORIZONTAL CRS. (M)		81.829 M		-	
PROFILE LENGTH (MM)		82.945 M		-	
ENDLESS BELT LENGTH (CONSIDERING SAG) (MM)		180,576 M		-	
SPEED (M/SEC.)		2.8		-	
MATERIAL		COAL		-	
BULK DENSITY FOR CONVEYOR SIZING (TON/CUM)		0.8		-	
FOR STRUCTURAL DESIGN (TON/CUM)		1.1		-	
LUMP SIZE (MM)		(-)20		-	
MOISTURE CONTENT		15%		-	
MATERIAL TEMP.		AMBIENT (MAX. 50°)		-	
TYPE		N/A		-	
RATING		630/4		-	
TOP COVER THICKNESS (MM)		6		-	
BOTTOM COVER THICKNESS (MM)		3		-	
BELT TENSION (KN)		T1=60.77, T2=34.76		-	
TYPE OF JOINT		VULCANIZED		-	
TYPE		TEFC, IE2, IP55		1 No.	
POWER RATING(KW)/RPM/FRAME SIZE		132		-	
SUPPLY VOLTAGE / DUTY		415V,3PHAS,50Hz		-	
TYPE		BEVEL HELICAL		1 No.	
MODEL NO		-		-	
HOLD BACK		YES		-	
RATIO		-		-	
MECHANICAL RATING KW		M		-	
TYPE		SDFC-450 WITH BD/EOVLT		1 No.	
TYPE/TYPE/TYPE		-		-	
RATING KW		-		-	
TYPE/TYPE/TYPE		-		-	
RATING KW/100 rpm		-		-	
TYPE		VDTU		-	
FRAME (MM)		2700		-	
COUNTER WEIGHT (N KG)		-		-	
DRIVE		-		1 No.	
TAKE-UP		-		1 No.	
BEND		-		2 Nos.	
SNUB		-		1 No.	
BRIE PULLEY		12 MM SHORE DIAMOND GROOVE		-	
ALL OTHER PULLEYS		10 MM PLAIN NATURAL RUBBER		-	
3 ROLL 10° TRANSITION IDLERS		Ø152.4 ENW X5.4THK. MS PIPE		2 Nos.	
3 ROLL 20° TRANSITION IDLERS		Ø152.4 ENW X5.4THK. MS PIPE		2 Nos.	
3 ROLL 35° CARRYING IDLERS		Ø152.4 ENW X5.4THK. MS PIPE		69 Nos.	
3 ROLL 35° IMPACT IDLERS		Ø139.7 ENW X5.4THK. MS PIPE, 00 Ø 205		10 Nos.	
CARRYING IDLERS		Ø152.4 ENW X5.4THK. MS PIPE		5 Nos.	
1 ROLL RETURN IDLER		Ø152.4 ENW X5.4THK. MS PIPE		21 Nos.	
1 ROLL SELF ALIGNING RETURN IDLER		Ø152.4 ENW X5.4THK. MS PIPE		3 Nos.	
1 ROLL SELF CLEANING RETURN IDLER		Ø152.4 ENW X5.4THK. MS PIPE		1 No.	
DEFLECTOR ROLLER		Ø219+6MM THK. MS PLATE		2 Nos.	
BELT CHANGING ROLLER		Ø219+6MM THK. MS PLATE		2 Nos.	
INTERNAL SCRAPER TYPE		V-PLOUGH TYPE		1 No.	
EXTERNAL SCRAPER TYPE		PRIMARY WITH MULTI BLADE SPRING TYPE		1 No.	
SKIRT BOARD		SECONDARY WITH TORSION ARM		1 No.	
DECK PLATE		3.15MM THK. MS THROUGHOUT		1 LOT.	
HEAD FRAME, TAIL FRAME & DRIVE BASE FRAME		ROLLED SECTION/FAB STRUCT		1 EACH	
STRINGER		ROLLED SECTION/FAB STRUCT		1 EACH	
SHORT SUPPORT		ISMC-150		1 LOT	
DISCHARGE CHUTE		20mm thk. TISBRAL/STAINLESS on sliding zone & 10mm thk. MS plate on non sliding zone		1 LOT	
PULL COORD SWITCH /LOCATION		25 M SPACING \ JAYSHERE KANA		12 PAIRS.	
BELT SWAY SWITCH/LOCATION		50 M SPACING \ JAYSHERE KANA		6 PAIRS.	
ZERO SPEED SWITCH/LOCATION		ONE FOR EACH CONVEYOR MOUNTED AT TAIL PULLEY		1 NO.	
CHUTE BLOCK SWITCH/LOCATION		-		-	

PROJECT: ROUKKELA PP-II EXPANSION PROJECT (IX250 MW)

OWNER: NTPC-SAIL POWER COMPANY PVT. LTD.

CONSULTANT: MECON LIMITED
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INDUSTRIAL SYSTEMS GROUP, BANGALORE

TITLE: GA & LOAD DATA OF BCN-3AB (1400 B.W)

SCALE	BHEL JOB NO.	DRG. NO.	IS-1-GA-708-101-M010	NO. OF SHEETS	3	REV.	0
BRIEF RECORD							

