



TECHNICAL SPECIFICATION					QTY FOR EACH	
DRIVE DETAILS	MOTOR	TYPE	TEFC SQUIRREL CAGE , S1 DUTY, IP55		1 No.	
		MAKE	ABB/BHEL/APPROVED VENDOR			
		POWER RATING(KW)/RPM/FRAME SIZE	132/1500/315 SMB		-	
		SUPPLY VOLTAGE / DUTY	415V,3PHASE,3 WIRE AC SUPPLY		-	
	REDUCER	TYPE	BEVEL HELICAL		1 No.	
		MODEL NO./MAKE	K2-21/ELECON/APPROVED VENDOR ⚠		-	
		HOLD BACK	YES, INTEGRAL		-	
		RATIO	16		-	
	COUPLING	MECHANICAL RATING KW	169		-	
		TYPE/SIZE/MAKE	EXTENDED DELAY FILL CHAMBER TRACTION TYPE WITH FLEXIBLE COUPLING CDR480+FC10/ELECON/APPROVED VENDOR		1 No.	
TAKE UP	HIGH SPEED	RATING KW	155 ⚠		-	
		TYPE/SIZE/MAKE	GEARED TYPE/ED-3200/ELECON/APPROVED VENDOR ⚠		-	
	LOW SPEED	RATING KW/rpm	3.351 ⚠		-	
		TYPE	VGTU		-	
	TRAVEL (MM)	2000		-		
		CAST IRON COUNTER WEIGHT (IN KG)	5900 (300x300x50 THK. (26.6KG/BLOCK)~ 222 Nos.) ⚠		-	
	MISCELLANEOUS INFORMATION	INTERNAL SCRAPER TYPE/MAKE		V-PLOUGH TYPE, MAKE : HOSCH/APPROVED VENDOR (1 NEAR TAIL PULLEY AND 1 NEAR BEND PULLEY) ⚠		2 Nos.
		EXTERNAL SCRAPER TYPE/MAKE	PRIMARY	PRIMARY WITH SPRING BLADE MAKE: APPROVED VENDOR		1 No.
			SECONDARY	SECONDARY WITH TORSION ARM MAKE: APPROVED VENDOR		1 No.
		SKIRT BOARD		MOTHER PLATE ~ M.S,10MM THICK ⚠ LINER PLATE ~ 6MM THICK SS-409M ON SLIDING & ADJACENT SURFACE SKIRTBORD HEIGHT-750MM AND LENGTH AS INDICATED IN DETAIL VIEW RUBBER SEALING SHALL BE 20MM THICK WITH 45-55 SHORE HARDNESS		LOT.
DECK PLATE		3MM THK. MS CONTINUOUS PLATE		LOT.		
HEAD FRAME, TAIL FRAME & DRIVE BASE FRAME		MB 400 FOR HEAD, MB 300 FOR TAIL & MC250 FOR DRIVE		-		
BEND FRAME		MB 300		-		
SEAL PLATE		3MM (MIN.) STEEL ⚠		-		
STRINGER		MC 125 ⚠		-		
SHORT SUPPORT		MC 100		-		
DISCHARGE & FEED CHUTE		MOTHER PLATE ~ M.S 10MM THICK LINER ~ 6MM THICK SS-409M ON SLIDING SURFACE & ADJACENT SURFACE		-		
DISCHARGE HOOD		4MM THK MS PLATE WITH RUBBER CURTAIN		-		
COUPLING GUARD		2MM THK MS SHEET		2 No.'s		
SAFETY SWITCHES		GRADE OF STEEL		⚠ BEAMS(MB), CHANNELS(MC) & PLATES OF <20MM THICK SHALL BE OF IS:2062 GRADE-A AND PLATES >20MM THICK SHALL BE OF IS:2062 GRADE-B.		LOT
	PULL CHORD ROPE		PVC COATED Ø5 WIRE		182 Mtr	
	PULL CORD SWITCH /LOCATION/MAKE		30 M SPACING (15M BOTH THE SIDE OF CONVEYOR) JAYSHREE/KANA		3 PAIR	
	BELT SWAY SWITCH/LOCATION/MAKE		30 M SPACING (15M BOTH THE SIDE OF CONVEYOR) JAYSHREE/KANA		3 PAIR	
NOTES	ZERO SPEED SWITCH/LOCATION/MAKE		AT TAIL PULLEY /JAYSHREE/KANA		1 No.	

1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS.
2. EL 0.0M CORRESPONDS TO RL (+) 99.5M, FINISHED FLOOR LEVEL OF TG BUILDING.
3. CIVIL/STRUCTURAL DETAILS INDICATED ARE TENTATIVE, FINAL DIMENSIONS SHALL BE AS INDICATED IN CIVIL/STRUCTURAL DRAWINGS.
4. ALL OPENINGS AND PLATFORMS SHALL BE PROVIDED WITH HAND RAILS AROUND THE PERIPHERY. HANDRAIL HEIGHT 1M(TYP).
5. LOAD DATA FURNISHED FOR CONVEYORS ARE FOR INFORMATION & REFERENCE ONLY.

LOAD DATA IN TRIPPER TRAVEL AREA Δ
LOAD PER STOOL AT BUNKER TOP
RS
VERTICAL DOWN WARD LOAD 12.0 T.(MAX)
BASE SHEAR ACROSS THE CONV. 6.0 T.
BASE SHEAR ALONG THE CONV. 6.0 T.
RS1 AND RS2
VERTICAL DOWN WARD LOAD 12.0 T.(MAX)
BASE SHEAR ACROSS THE CONV. 6.1 T.
BASE SHEAR ALONG THE CONV. 9.0 T.
NOTE: DYNAMIC/IMPACT FACTOR OF 1.2 SHALL BE CONSIDERED.

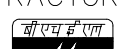

REFERENCE DRAWINGS/DOCUMENTS	
EBHEL-DRG. NO.	DESCRIPTION
IS-1-GA-690-100-M003	TYPICAL CROSS SECTION OF CONVEYOR GALLERY & TUNNELS
IS-1-FL-690-100-M002	FLOW DIAGRAM CHP
IS-0-PL-690-100-M001	GENERAL PLANT LAYOUT OF COAL HANDLING SYSTEM
IS-1-GA-690-104-M031	GA OF TP -10 WITH LOAD DATA
IS-1-GA-690-111-M102	GA OF TRAVELLING TRIPPER WITH LOAD DATA
IS-1-GA-690-104-M031	GA OF CONVEYOR BC # 8A/8B
0-00-022-76923	GA OF BOILER FRONT ELEVATION -SECTION FF

LEGEND(FOR BELT TENSIONS) :-

T1-	TIGHT SIDE TENSION
T2-	SLACK SIDE TENSION
T3-	TAIL TENSION
Te-	EFFECTIVE TENSION AT DRIVE PULLEY
Ttu-	TAKEUP TENSION

HOIST SCHEDULE							
* MONORAIL SECTIONS SHOWN HERE ARE INDICATIVE ONLY. <u>△</u>							
ITEM NO.	MONO RAIL SECTION	HOIST TYPE	CAPACITY	LIFTING HT.	OPERATING FLOOR	RADIUS	QTY.
<u>(A)</u>	ISMB 400*	ELECTRICAL	3.0 T	70.58 MTRS.	EL + (±)62.88M	2.5 MTRS	1 NO.
<u>(B)</u>	ISMB 200*	MANUAL	<u>△</u> 1.5 T	9.8 MTRS.	EL + (±)62.88M	2.0 MTRS	1 NO.

01	11.03.16	1. REVISED AS PER CLIENTS COMMENTS 2. REVISED AS MARKED		
0	11.09.15	FOR APPROVAL		
R.No:	DATE	BRIEF RECORD	BY	APPR
REVISIONS				

OWNER:	TELANGANA STATE POWER GENERATION CORPORATION LTD. HYDERABAD - TELANGANA, INDIA				
CUSTOMER'S CONSULTANT 	DEVELOPMENT CONSULTANTS PVT. LTD. CONSULTING ENGINEERS KOLKATA . MUMBAI . CHENNAI . NEW DELHI				
PROJECT :	KOTHAGUDEM THERMAL POWER STATION STAGE-VII, UNIT # 12 (1X800 MW), KOTHAGUDEM, TELANGANA, INDIA COAL HANDLING SYSTEM PACKAGE				
EPC CONTRACTOR 	BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL SYSTEMS GROUP ISG-BANGALORE				
BHEL'S CONTRACTOR		NAME	SIGN	DATE	REV
	DRN.	PVN		11.09.15	00
	CHD.	SSD		11.09.15	NO OF
	APP.	RSP		11.09.15	VARS
	TITLE :			NO. OF SHEETS	2
	GA OF BC#9A/9B			SHEET. NO.	20F
SCALE	BHEL JOB NO. IS-1-14-2006	BHEL-ISG DRG. NO.	IS-1-GA-690-101-M015		REV

COMPLIANCE REPORT			
Project : 1 x 800 MW(Unit-12) Kothagudem Thermal Power Station			
Owner : Telangana State Power Generation Corporation Limited			
Owner's Consultant : Development Consultants Private Limited			
EPC Contractor : BHEL Industrial System Group			
Package : Coal Handling System			
Drawing&Document No/Rev No :IS-1-GA-690-101-M015(Rev-1)			
Drawing/Document Name : GA of BC#9A/9B			
Sl.No	Owner/Owner's Consultant's Comment	BHEL Reply	Comments/Conclusion by Owner/Owner's Consultant
A	Sheet 1 of 2		
1	Furnish enlarge view of this area (conveyor loading zone) with all dimension, skirt board details and chute angles etc. Check skirt length & height w.r.t DS system	Please note that furnished idler profile indicates the type of idler with quantity, pulley with diameter, scrapper , deflector rollers,etc. with detailed dimensions and locations. In the conveyor GA elevation view the skirt board length with locating dimensions is clearly indicated along with feeding chute inclinations. Hence in the enlarged view of tail frame , only the tail pulley and some adjacent details only are provided.	
2	Mark North	Noted and incorporated in revised document	
3	Furnish angles of chute	Noted and incorporated in revised document	
4	Indicate monorail extension	Noted and incorporated in revised document	
5	Furnish sectional view at takeup tower location	Please note that this is the conveyor GA drawing. For the detailed sectional views of takeup tower please refer to the transfer tower TP-10 GA drawing.	
6	Furnish monorail layout for hoisting purpose	Monorail layout already furnished in plan view. The monorail is identified in the revised drawing	
7	Furnish sectional view of drive base frame foundation	Noted and incorporated in revised document	
8	Furnish flap gate numbers and chute angles mounted on tripper	Noted and incorporated in revised document	
9	Coal bunker area are not checked due to unavailability of Bunker GA drawing. Please furnish the same and indicate the same in Reference Drawing list	Please note that this is the conveyor GA, hence details relevant to conveyor GA alone are indicated in here. The bunker indicated in here is for representation and loading points only. The reference drawing number of bunker GA is included.	
B	Sheet 2 of 2		
1	W.P and S.P not marked in the drawing	Noted and incorporated in revised document	

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Drawing/Document Name : GA of BC#9A/9B

2	Skirt board length & height to checked w.r.t. DS system	Skirt board dimensions are 3000mm ahead of front edge and 500mm minimum behind rear edge of chute, which will take care of DFDS system requirement.	
3	Indicate Pulley elevations in idler profile	Noted and incorporated in revised document	
4	Identify scrapper and deflector roller in idler profile	Noted and incorporated in revised document	
5	SACI to be located with maximum spacing of 10m and SARI at 20m maximum respectively	Noted and incorporated in revised document	
6	Please check the idler distance at tripper	Noted and incorporated in revised document	
7	Show external scrapper in idler profile	Noted and incorporated in revised document	
8	Please check the first idler distance from head pulley as it appear high.	Noted and incorporated in revised document. The first transition idler shifted towards head pulley as close as possible.	
9	Belt shall be finalised as per calculation	Belt details furnished is as per the calculation	
10	Internal scrapper to be provided at tail and bend pulley	Noted and incorporated in revised document	
11	seal plate thickness to be 3mm minimum	Noted and incorporated in revised document	
12	Indicate type of high speed coupling	Noted and incorporated in revised document	
13	Motor rating shall be finalised as per calculation	Motor details furnished is as per the calculation	
14	Belt sway switches shall be located at 15m from either ends of pulley	Noted and incorporated in revised document	
15	HF1, HF2, DB, F1 & F2 not marked in the drawing	The same is marked in foundation plan view for head frame and drive frame detail in sheet 1 of 2	

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Drawing/Document Name : GA of BC#9A/9B

16	In take-up tower at every 3M interval chequered plate platform with hand rails shall be provided in travel zone with necessary access as per cl. no. 7.09.07 of the specification	Please note that takeup travel is between the following floor elevations a) EL56.73m to EL52.33m : Since the travel is within the specified floor elevations with a net difference of 4.4M , introduction of one more floor at every 3m is not at all feasible as there is no clear headroom space of 2.1M left for the floor above. b) EL7.00m to EL0.00M : The travel is within this specified elevation with a net difference of 7M. hence a intermediate floor at EL3.3m is provided ensuring adequate headroom of 2.1M and headroom required for handling facility. Thereby provision of floor at every 3m is not feasible in this case. Please also note requirements. The takeup pulley travel is between the floors EL56.732m and EL52.33m and that of counter weight is between floors EL7.0m and EL0.0m. Inbetween the floors EL52.33m and EL7.0M there are no equipments or any maintenance requirements. Hence opearting floors are not envisaged at every 3m between these(EL52.33m and EL7.0M) floors. Opearting floors are provided as per above points a) and b)	
17	Hoist indicated is not marked in hoist schedule	Please note that the hoist in the takeup tower region is included in the hoist schedule of transfer tower TP-10 GA drawing. Hence the same is not included in here	
18	Furnish monorail layout in plan view	Please note that this is the conveyor GA drawing. For the detailed sectional views of takeup tower with monorail routing ,please refer to the transfer tower TP-10 GA drawing as the hoist within transfer towe are included in transfer tower GA drawings	
19	Update note 3 & 4 in Notes	Noted and incorporated in revised document	

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Drawing/Document Name : GA of BC#9A/9B

20	As per cl. no. 7.36.00 of specification, all hoist of 2T and above capacity or of lift 10 M or more will be of electrical type	Please note that the maximum weight of discharge pulley , snub pulley and drive component is <1.5T, hence the hoist capacity is updated & manual hoist is provided. Please refer to the pulley GA drawing. No.IS-1-GA-690-111-M122. The same will be submitted shortly	
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