

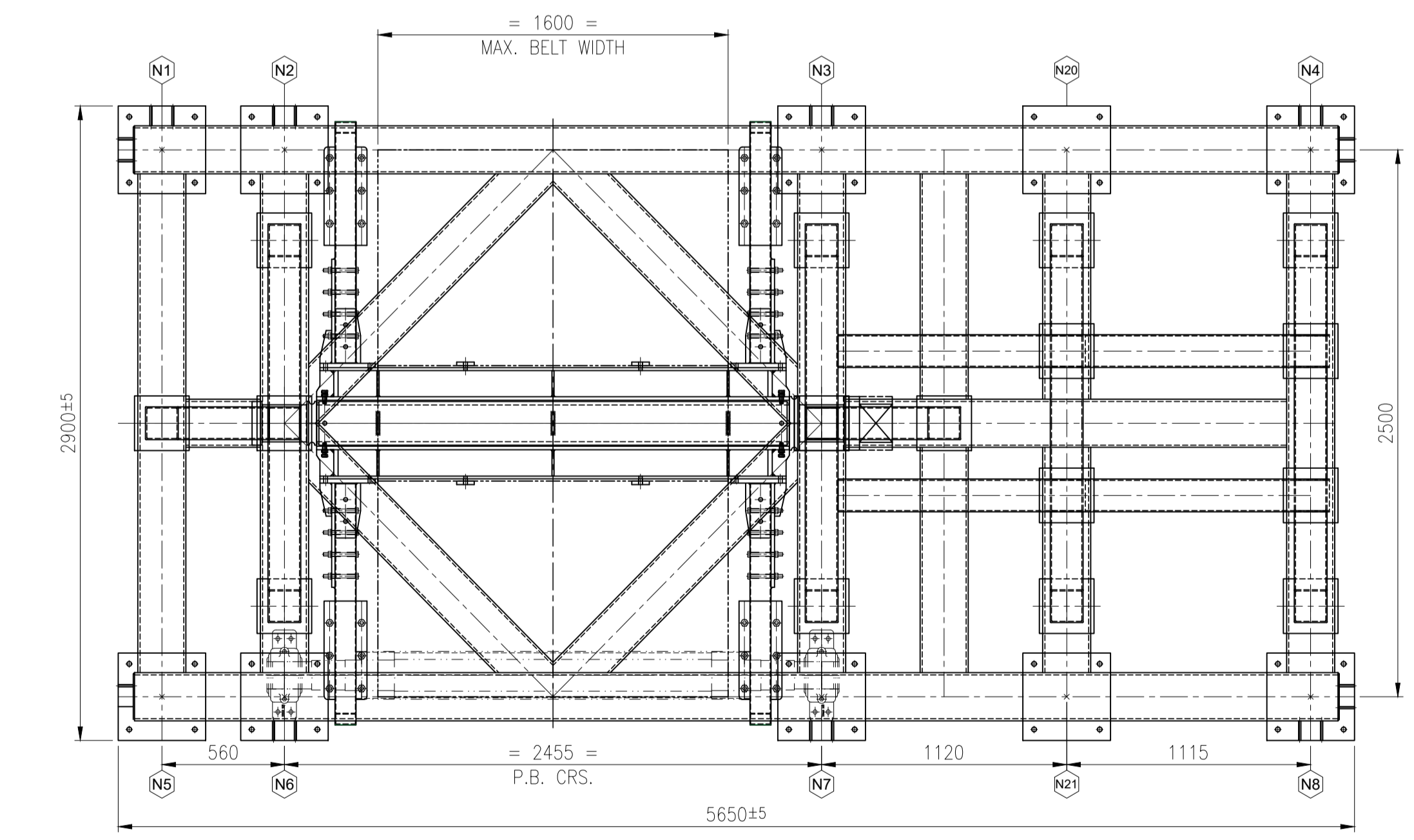
ELEVATION OF SKID MOUNTED COILER/DE-COILER

VIEW-A:A

TECHNICAL SPECIFICATION OF BELT CHANGING UNIT		
SL. NO.	PARTICULAR	SPECIFICATION
COILER / DE-COILER		
1	BELT WIDTH (max.)	1.6 M
2	BELT THICKNESS	23 mm
3	BELT WEIGHT	54 Kg/M
4	MAXIMUM BELT LENGTH CAN BE WIND IN A SINGLE GO	200 M
5	PULLING FORCE	66210 N
6	SPEED OF WINDER	5 MTR./M

BILL OF MATERIAL FOR COILER/DE-COILER

SL. NO.	DESCRIPTION	QTY.	SPECIFICATION	REMARKS
01	SKID WITH 'A' FRAME (for COILER)	1 NO.	STRUCTURAL STEEL IS:2062	MAKE : SYNERGY
02	DRUM (2500 MM DIA.) FOR COILER/DE-COILER	1+1 NO.	STRUCTURAL STEEL IS:2062 IS:4923 ; IS:3589	MAKE : SYNERGY
03	MOTOR FOR WINDER DRIVE	1 NO.	30 KW, 6 POLES, IE2	MAKE : SIEMENS/ABB
04	PLANETARY GEARBOX FOR WINDER	1 NO.	RATIO - 370:1	MAKE : TOP GEAR TRANSMISSION/ BONFIGLIOLI
05	RESILIENT COUPLING WITH BRAKE DRUM FOR COILER/DE-COILER	1 NO.	-	MAKE : GBM/EQUV.
06	E.H.T. BRAKE FOR WINDER	1 NO.	-	MAKE : ELECTROMAG/KATEEL
07	JAW COUPLING FOR WINDER	1 NO.	EN-8	MAKE : SYNERGY
08	200x200 MM SQUARE HOLLOW SHAFT MANDREL FOR COILER/DE-COILER	1 NO.	EN-8 MS, IS:2062	MAKE : SYNERGY
09	SPLIT HALF PH. BRONZE BUSH BEARING FOR COILER/DE-COILER (WITH FABRICATED PLUMMER BLOCK)	2 NOS.	STRUCTURAL STEEL IS:2062 AND PB	MAKE : SYNERGY
10	BELT DEVIATION ROLLER 219.1 x 1800mm F/W SHAFT AT BRG.= 125	1 SET.	ERW ; IS:1161/3589 BRG. FAG/SKF PB.: NEC SHAFT: EN-8	MAKE : SYNERGY
11	STARTER CONTROL PANEL (R-DOL)	1 NO.	-	MAKE : SYNERGY
12	FLEXIBLE TRAILING CABLE :- EPR INSULATED PCP/CSP SHEATHED FLEXIBLE TRAILING ANNEALED TINNED STANDARD COPPER CONDUCTOR WITH POWER SOCKET	15 MTRS.	-	MAKE: KEC/UNIVERSA/EQUIV.
13	CANOPY FOR DRIVE COMPONENTS	1 NO.	MS ; IS:2062	MAKE : SYNERGY



PLAN

Node	LC	Horizontal Fx Mton	Vertical Fy Mton	Horizontal Fz Mton
N1	1 DEAD LOAD (DL)	0.00	-0.28	0.01
	2 LIVE LOAD (LL)	0.06	-0.09	0.17
N2	1 DEAD LOAD (DL)	-0.01	-4.67	-1.08
	2 LIVE LOAD (LL)	0.03	3.14	2.63
N3	1 DEAD LOAD (DL)	-0.01	-4.49	-0.98
	2 LIVE LOAD (LL)	-0.04	3.06	2.72
N4	1 DEAD LOAD (DL)	-0.01	-0.56	-0.27
	2 LIVE LOAD (LL)	0.00	-0.18	-0.08
N5	1 DEAD LOAD (DL)	0.00	-0.28	0.00
	2 LIVE LOAD (LL)	-0.06	-0.06	0.17
N6	1 DEAD LOAD (DL)	0.01	-4.79	1.07
	2 LIVE LOAD (LL)	-0.01	3.28	2.63
N7	1 DEAD LOAD (DL)	-0.01	-4.67	0.98
	2 LIVE LOAD (LL)	0.04	3.36	2.74
N8	1 DEAD LOAD (DL)	-0.02	-0.27	0.27
	2 LIVE LOAD (LL)	0.00	-0.18	0.07
N20	1 DEAD LOAD (DL)	0.02	-2.55	-1.02
	2 LIVE LOAD (LL)	-0.04	-0.38	-0.01
N21	1 DEAD LOAD (DL)	0.02	-2.09	-1.02
	2 LIVE LOAD (LL)	0.04	-0.35	0.18

SURFACE PREPARATION
SA 2.5

PAINTING SPECIFICATION
TYPE OF PAINT
A) PRIMER : TWO COAT PHENOLIC BASED RED OXIDE ZINC CHROMATE X 25 MICRONS
B) INTERMEDIATE : TWO COAT EPOXY-HIGH BUILD PHENOLIC BASIED MIO X 50 MICRONS
C) FINISH : TWO COAT POLYURETHANE ENAMEL X 25 MICRONS

THICKNESS OF PAINT
A) PRIMER : DFT 50 MICRON
B) INTERMEDIATE : DFT 50 MICRON
C) FINISH : DFT 50 MICRON
TOTAL DFT 150 MICRON
PAINT SHADE NO. 631 ; LIGHT GRAY (AS PER IS:5)

NOTES:
1. ALL DIMENSIONS ARE IN mm & UNLESS OTHERWISE SPECIFIED.
2. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET WELD UNLESS OTHERWISE SPECIFIED.
3. M/C TOLERANCE SHALL BE AS PER IS:919-1963, IS:2048-1983 AND IS:2540-2008
4. ALL FASTENERS ARE 8.8 GRADE OR ABOVE GALVANIZED.

REV.	DATE	DESCRIPTION	BY	CHKD.	APPD.
1	14.11.25	BELT DEVIATION ROLLER SPEC UPDATED REVISED AS PER COMMENT DT. 14.11.25	T.M.	P.KAR	BRD

SYNERGY INDUSTRIAL SERVICES PVT. LTD.
301 BALLYGUNGE PLACE, KOLKATA - 700019, INDIA

JOB NUMBER: DOM00006225-26
SISPL DRG. NO. S|Y|I|E|R|G|Y|-|C|S|O|-|O|2|-|M|O|I|-|G|A|-|O|1|4

ENGINEERING CONTRACTOR:
ASIAN ENERGY SERVICES LIMITED
DESIGN CONSULTANT:
LEPTON PROJECTS PRIVATE LIMITED

CONTRACTOR:
ZUBERI ASIAN JOINT VENTURE

CATEGORY OF DRG.	APPROVAL	INFORMATION	REFERENCE	RECORD	CONSTRUCTION
CLIENT:	EASTERN COALFIELDS LIMITED				
CONSULTANT:	CENTRAL MINE PLANNING AND DESIGN INSTITUE Ltd.				
CONTRACTOR:	ZUBERI ASIAN JOINT VENTURE				
PROJECT:-	COAL HANDLING PLANT (3.0 MTY), HURA C OCP				

DESIGN.	TITLE:
GA OF SKID MOUNTED COILER/DE-COILER FOR 1600 (MAX.) B/W	
DRAWN.	SCALE:- 1:25
CHECKED.	SHEET:- 1 OF 1
APPROVED.	ZAE DWG. NO.

DWG NO.	DESCRIPTION
1	REFERENCES
2	STANDARD NOTES
3	REVISION HISTORY