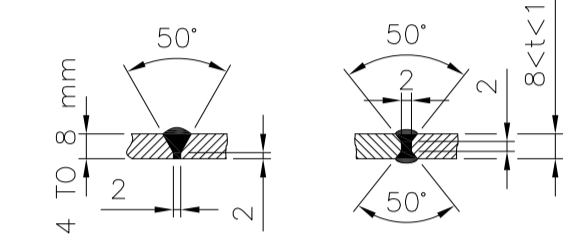
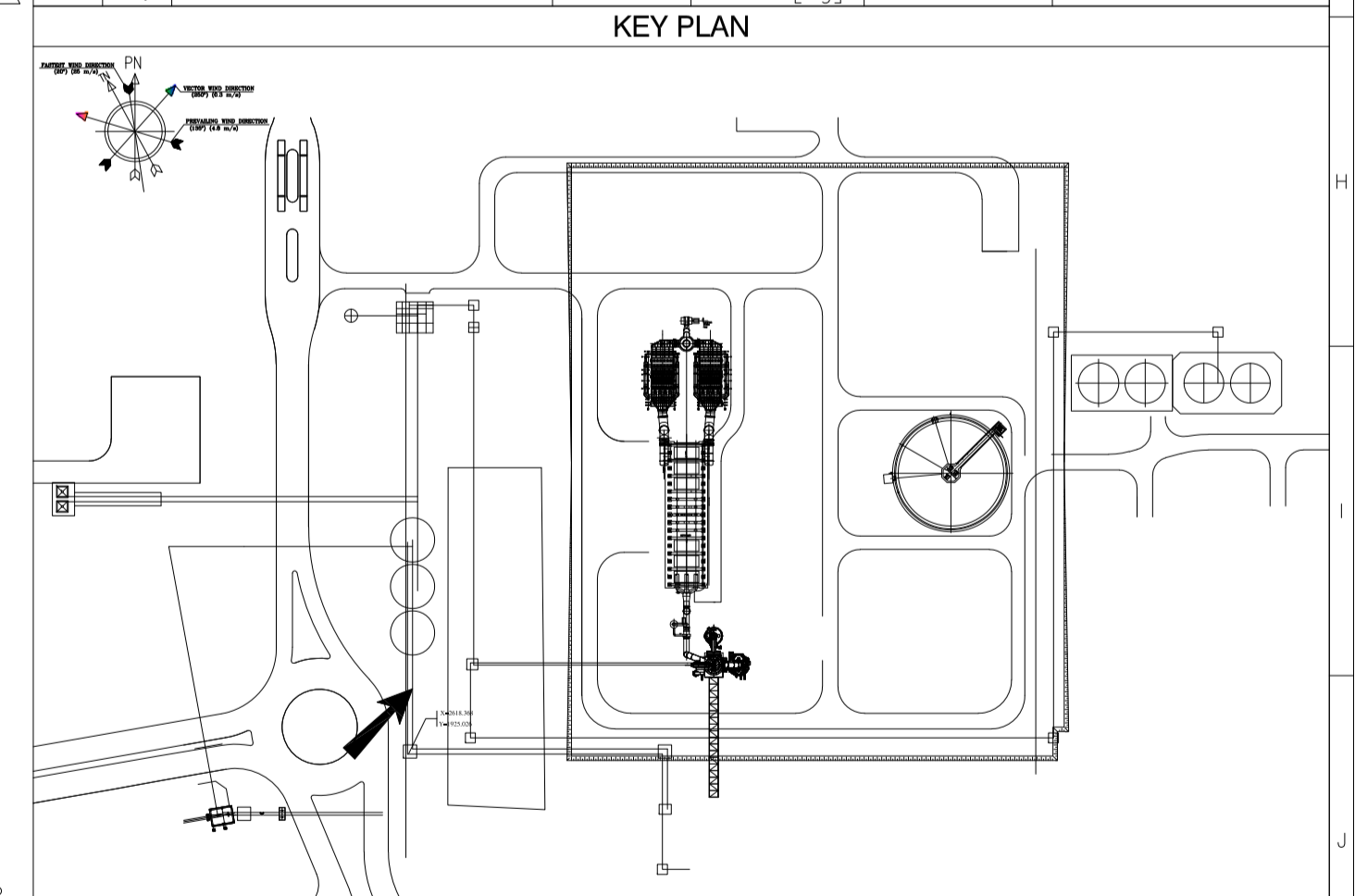


REFERENCE DRAWINGS		
NO.	DRAWING NO.	TITLE
1	TGMMM00M4001	MATERIAL HANDLING SYSTEM - LAYOUT
2	TGMMM00M4016	MATERIAL HANDLING SYSTEM-GENERAL ARRANGEMENT-BELT CONVEYOR CV-3F06
3	TGMMM06M4165	MATERIAL HANDLING SYSTEM-ARRANGEMENT & LOADING DRAWING-CV-3F06

- NOTE:
- 1- G.L. ±0.00=+1698.000
 - 2- DRIVE UNIT SPEC.: MOTOR POWER 22 KW, N2= 87 RPM (HOLD).
 - 3- All DIMENSION IS IN mm AND ALL ELEVATION IS IN m.
 - 4- ONE ADDITIONAL COVER SUPPORT IS NEEDED. (ACCORDING TO DWG. NO. TGMMM00M4136, ITEM 1)
 - 5- VARIATIONS ON DIMENSIONS WITHOUT TOLERANCE VALUES ARE ACCORDING TO DIN ISO 2768-mk
 - 6- ALL DOUBLE FILLET WELDS ARE 0.4 x MIN THK. AND ALL SINGLE FILLET WELDS ARE 0.7 x MIN THK. UNLESS OTHERWISE SPECIFIED.
 - 7- ALL BUTT WELDS ARE SHOWN AS FOLLOWING DETAILS:



Item	Qty	Name	Mass	Total [kg]	Material	Standard
23	1	BELT 650 (F400) 3-413 - DN X (LOOP LENGTH) (M)	1836.000	1836.00	(HOLD)	
22	1	DRIVE UNIT SUPPORT	0.00	0.00	(HOLD)	
21	1	DRIVE UNIT	0.00	0.00	(HOLD)	
20	1	RAIN COVER-2	48.280	48.28	TGMMM00M4137	
19	41	RAIN COVER-1	58.230	2387.43	TGMMM00M4136	
18	1	BELT SCRAPER	51.830	51.83	TGMMM00M4126	
17	2	BELT PLOUGH CLEANER	22.700	45.40	TGMMM00M4131	
16	1	DECKING PLATES	431.720	431.72	TGMMM06M4188	
15	1	BELT FRAME-8	199.870	199.87	TGMMM06M4196	
14	1	BELT FRAME-7	285.850	285.85	TGMMM06M4195	
13	1	BELT FRAME-6	273.750	273.75	TGMMM06M4194	
12	1	BELT FRAME-5	223.890	223.89	TGMMM06M4193	
11	1	BELT FRAME-4	207.010	207.01	TGMMM06M4192	
10	1	BELT FRAME-3	207.010	207.01	TGMMM06M4191	
9	5	BELT FRAME-2	207.010	1035.05	TGMMM06M4190	
8	1	BELT FRAME-1	207.290	207.29	TGMMM06M4189	
7	1	FEEDING DEVICE-3	45.740	45.74	TGMMM06M4197	
6	1	FEEDING DEVICE-2	569.500	569.50	TGMMM06M4187	
5	1	FEEDING DEVICE-1	581.990	581.99	TGMMM06M4186	
4	1	TAKEUP STATION ASSEMBLY	1159.600	1159.60	TGMMM06M4175	
3	1	TAIL STATION	321.000	321.00	TGMMM06M4174	
2	1	DRIVE STATION	1431.460	1431.46	TGMMM06M4170	
1	1	IDLER ARRANGEMENT	4754.300	4754.30	TGMMM06M4168	
Total				16304.00		



REV.	DATE	DESCRIPTION	PURPOSE OF ISSUE	PREPARE	CHECK	APPROVE
03	Dec. 2022	-	ISSUED FOR CONSTRUCTION	DATIS ENG.	DATIS ENG.	NAGHAJANI
02	Aug. 2022	-	ISSUED FOR CONSTRUCTION	DATIS ENG.	DATIS ENG.	NAGHAJANI
01	Aug. 2022	-	ISSUED FOR APPROVAL	DATIS ENG.	DATIS ENG.	NAGHAJANI

TOOBA GISD MEGA MODULE PROJECT

Client: GISD Co. Contractor: MMTS MINES & METALS TECHNOLOGICAL ENGINEERING CO.

Client's Project	Project Code	Main Contractor	Area Code	Plant Group	Equipment Code	Document Type	Eng. Discipline	Serial No.
GISD	7-3	119	1007	7	CV	04	M	167

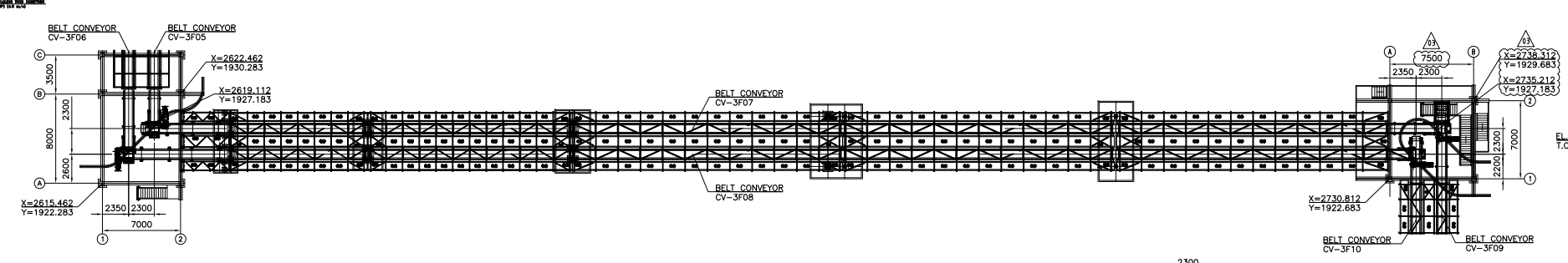
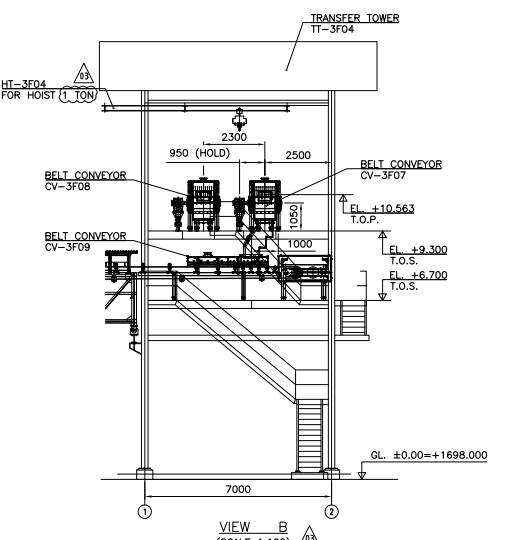
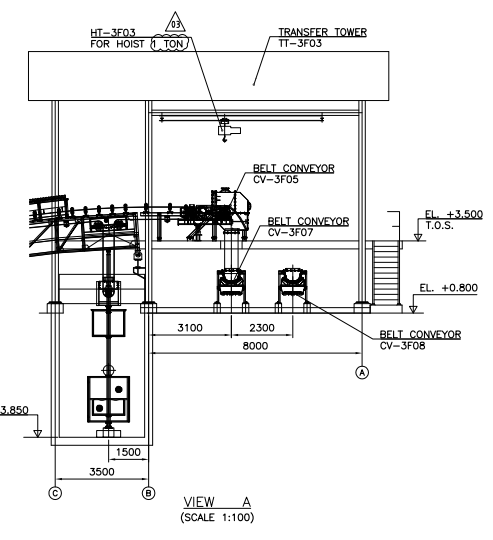
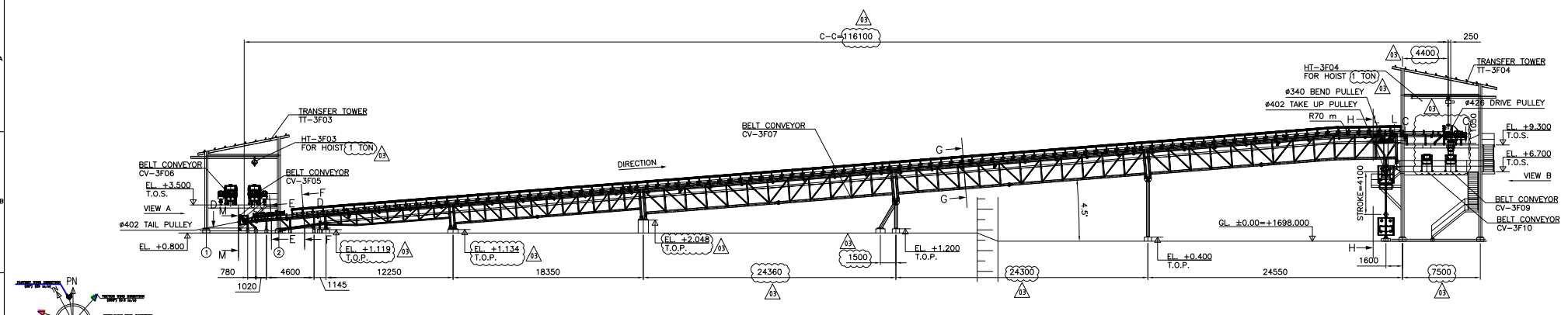
DESIGNED: DATIS ENG. Aug. 2022
 PREPARED: DATIS ENG. Aug. 2022
 CHECKED: DATIS ENG. Aug. 2022
 APPROVED: NAGHAJANI Aug. 2022

designation: MATERIAL HANDLING SYSTEM BELT CONVEYOR CV-3F06 ASSEMBLY DRAWING

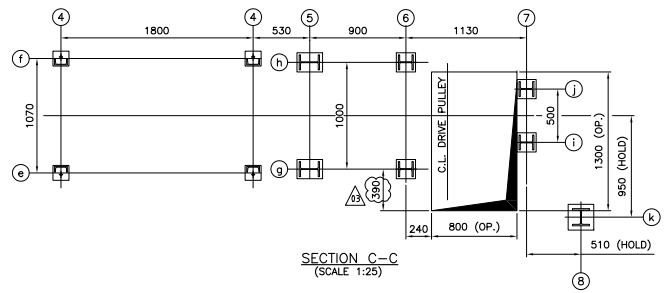
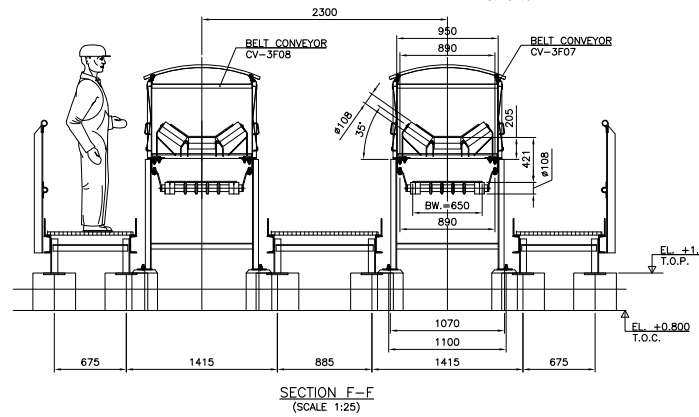
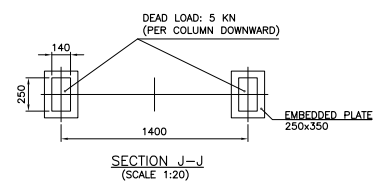
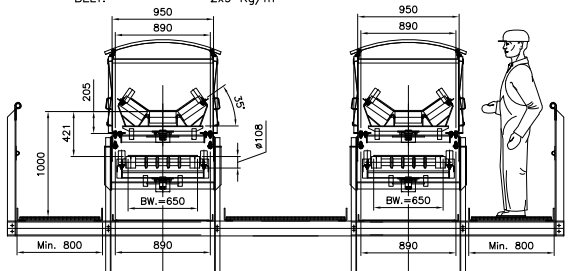
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 CONT. & PROJ. NO: 99/1369

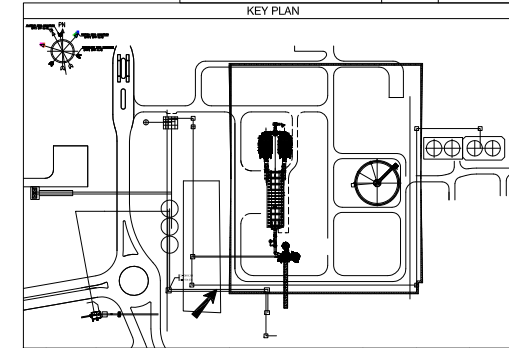
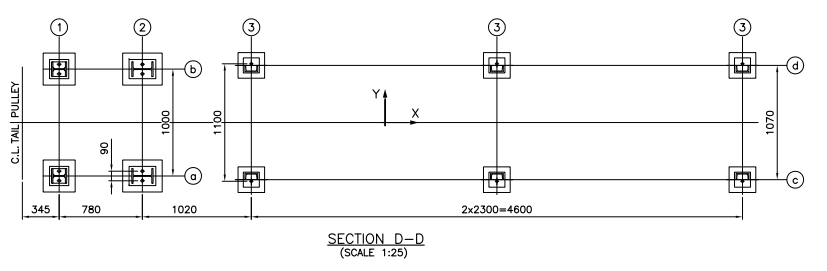
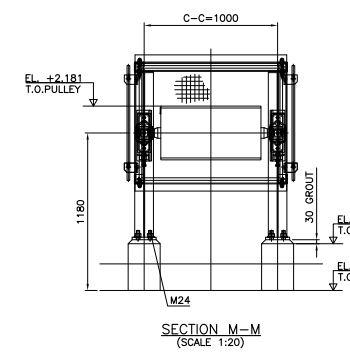
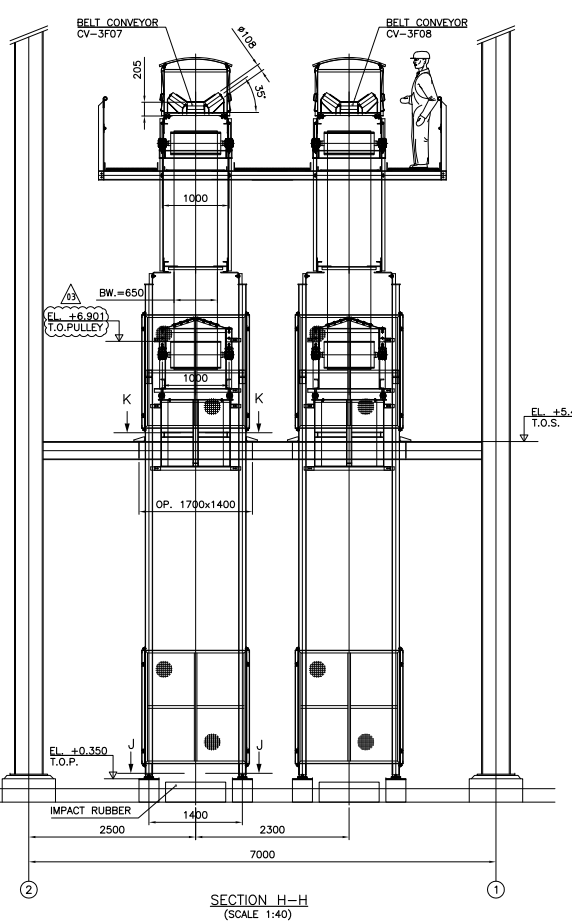
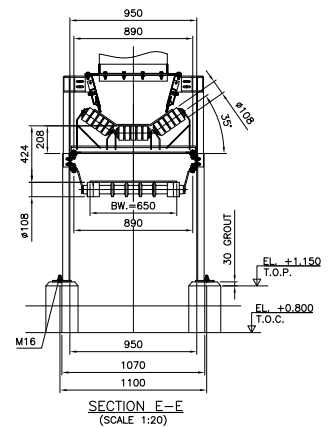
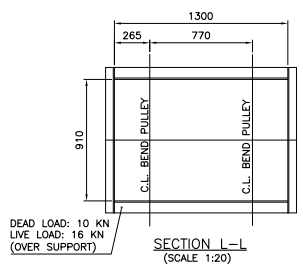
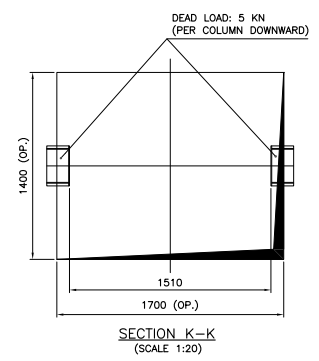
NO.	DRAWING NO.	TITLE
1	TGMMMM04001	MATERIAL HANDLING SYSTEM - LAYOUT
2	TGMMMM04017	MATERIAL HANDLING SYSTEM - GENERAL ARRANGEMENT - BELT CONVEYOR CV-3F07



MECHANICAL ACCESSORIES LOADS:
 GRAVITY LIVE LOADS ON:
 MATERIAL: 60 Kg/m
 GRAVITY DEAD LOADS ON:
 CARRYING IDLER SET: 25 Kg/m
 RETURN IDLER: 5 Kg/m
 BELT COVER: 58 Kg/m
 BELT: 2x9 Kg/m



GENERAL DATA	UNIT	QTY.
DESIGN MASS CAPACITY	t/hr	420
BELT WIDTH	mm	650
HORIZONTAL LENGTH	m	(116,100)
LIFT	m	8.370
SLOPE OF CONVEYOR	Degrees	4.5
BELT SPEED	m/s	1.95
FILLING RATIO	%	74
COUNTER WEIGHT	kg	1607
BULK DENSITY	t/m ³	2.1
SURCHARGE ANGLE	Degrees	12
BELT DATA		
TYPE OF BELT	mm	EP 500/3
THICKNESS OF TOP & BOTTOM COVER	mm	6+3
BELT COVER TYPE	mm	DIN X
NORMAL BELT TENSION	kN	17.7
STARTING BELT TENSION	kN	28.3
BELT WEIGHT	kg/m	9
DRIVE UNIT DATA		
ABSORBED PULLEY POWER	kW	19.5
MOTOR POWER REQUIRED	kW	23.5
INSTALLED POWER	kW	30
GEARBOX TYPE	mm	HOLLOW SHAFT WITH SHRINK DISK
OUTPUT SPEED OF GEARBOX	rpm	87.4
COUPLING BETWEEN MOTOR AND GEAR BOX	mm	YES
COUPLING BETWEEN GEAR BOX AND DRUM	mm	N/A
BACK STOP	mm	YES
BRAKE	mm	N/A
PULLEY DATA		
DRIVE DRUM SPEED	rpm	87.4
ANGLE OF WRAP ON DRIVE DRUM	Degrees	180
DRIVE PULLEY DIAMETER	mm	426
TAIL/TAKE UP PULLEY DIAMETER	mm	422
BEND PULLEY DIAMETER	mm	340
SNUB TAIL/DRIVE PULLEY DIAMETER	mm	-
CARRYING IDLERS		
TROUGH ANGLE	Degrees	35
DIAMETER	mm	108
SHAFT DIAMETER	mm	25
IMPACT CARRYING IDLERS		
TROUGH ANGLE	Degrees	35
DIAMETER	mm	108
SHAFT DIAMETER	mm	20
RETURN IDLERS		
TROUGH ANGLE	Degrees	0
DIAMETER	mm	108
SHAFT DIAMETER	mm	20



DATE	DESCRIPTION	ISSUED FOR CONSTRUCTION	DATE	ISSUED FOR CONSTRUCTION	DATE	ISSUED FOR CONSTRUCTION
03 Jun 2023		ISSUED FOR CONSTRUCTION	02 Jun 2022	ISSUED FOR CONSTRUCTION	01 May 2022	ISSUED FOR APPROVAL

TOOBA GISD MEGA MODULE PROJECT

Client's Project	Project Code	Area Code	Equipment Code	Document Type	Eng. Discipline	Serial No.
GISD	7-3	119	1007	7	CV	04

MATERIAL HANDLING SYSTEM ARRANGEMENT & LOADING DRAWING CV-3F07

DESIGNED	DATED	ENG.	DATE	SCALE	REVISION
				1:200	03

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X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X
1	15	12	-13	-2	-4	-3	-2	-2	-1	-7	-7	-4	-4	-11	

NOTE: 1- G.L. ±0.00=+1698.000

Surface Finishes: DIN ISO 1982

General Tolerances: MACHINED PARTS: DIN ISO 2768-MS

WELDED CONSTRUCTION: DIN ISO 15613

Sharp Edges Chamfer

All DIM in MILLIMETER

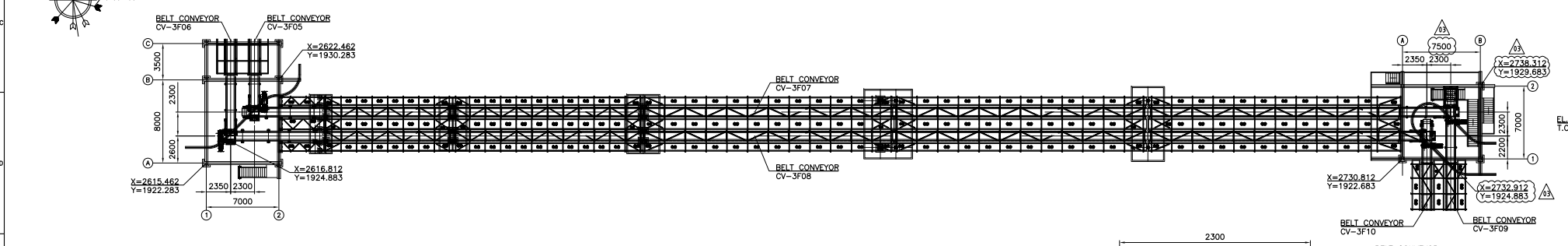
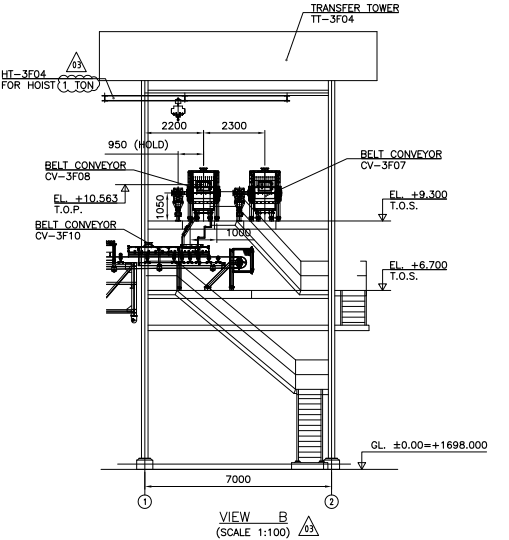
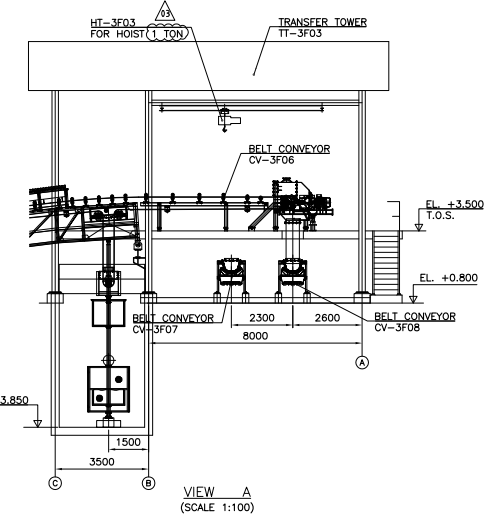
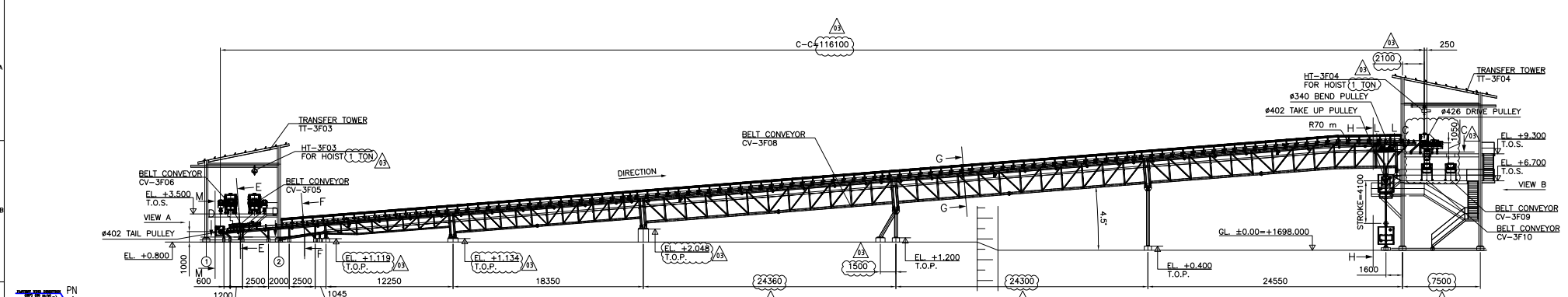
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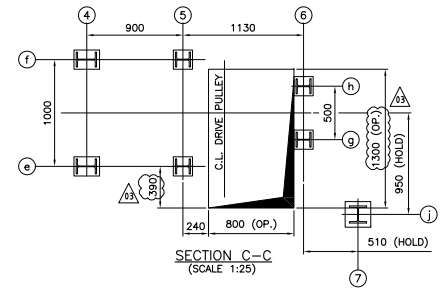
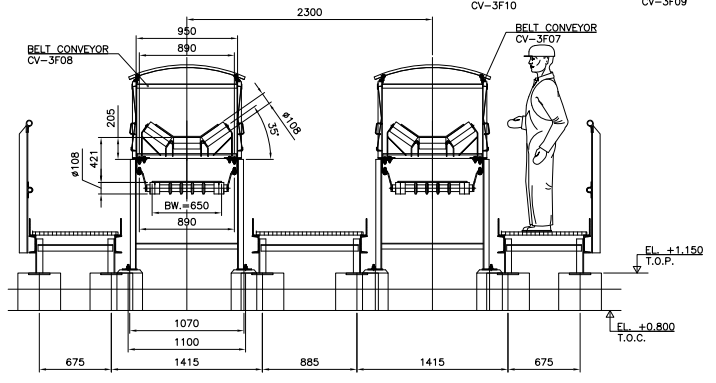
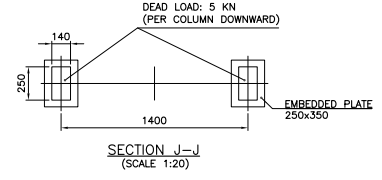
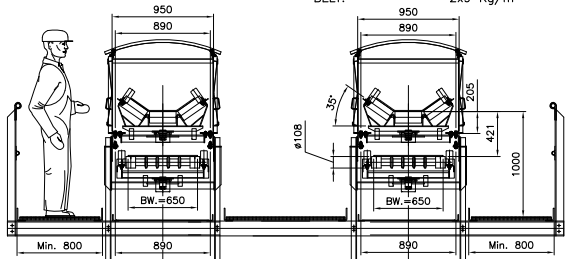
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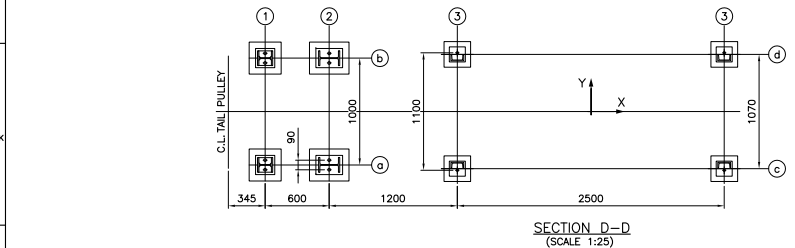
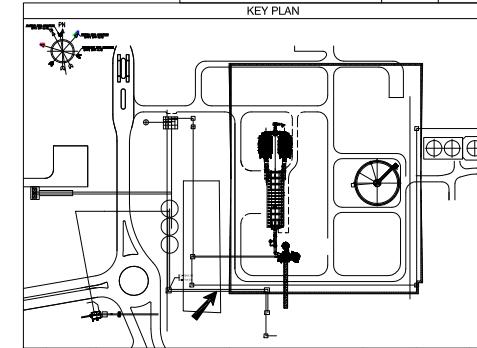
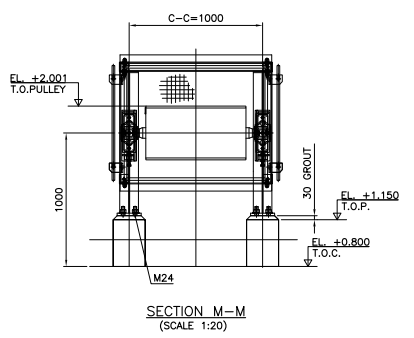
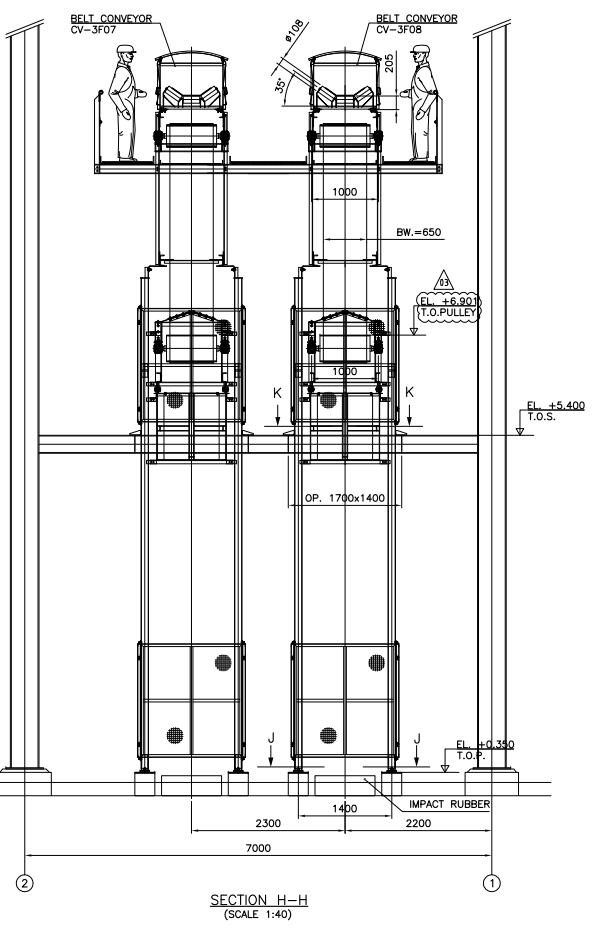
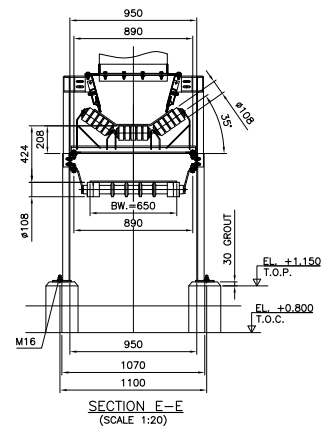
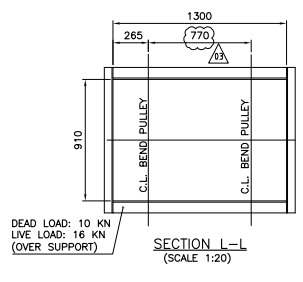
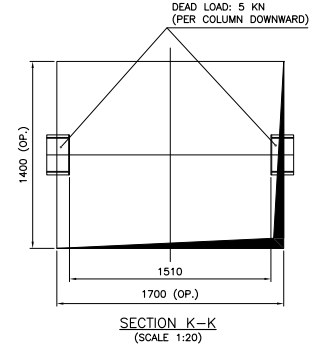
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1	TGMMMM004001	MATERIAL HANDLING SYSTEM - LAYOUT
2	TGMMMM004018	MATERIAL HANDLING SYSTEM - GENERAL ARRANGEMENT - BELT CONVEYOR CV-3F08



MECHANICAL ACCESSORIES LOADS:
 GRAVITY LIVE LOADS ON:
 MATERIAL: 60 Kg/m
 GRAVITY DEAD LOADS ON:
 CARRYING IDLER SET: 25 Kg/m
 RETURN IDLER: 5 Kg/m
 BELT COVER: 58 Kg/m
 BELT: 2x9 Kg/m



GENERAL DATA	UNIT	QTY.
DESIGN MASS CAPACITY	t/hr	420
BELT WIDTH	mm	650
HORIZONTAL LENGTH	m	(116.100)
LIFT	m	8.550
SLOPE OF CONVEYOR	Degrees	4.5
BELT SPEED	m/s	1.95
FILLING RATIO	%	74
COUNTER WEIGHT	kg	1607
BULK DENSITY	t/m ³	2.1
SURCHARGE ANGLE	Degrees	12
BELT DATA		
TYPE OF BELT	mm	EP 500/3
THICKNESS OF TOP & BOTTOM COVER	mm	6+3
BELT COVER TYPE	mm	DIN X
NORMAL BELT TENSION	kN	17.9
STARTING BELT TENSION	kN	28.4
BELT WEIGHT	kg/m	9
DRIVE UNIT DATA		
ABSORBED PULLEY POWER	kW	19.8
MOTOR POWER REQUIRED	kW	23.8
INSTALLED POWER	kW	30
GEARBOX TYPE	mm	HOLLOW SHAFT WITH SHRINK DISK
OUTPUT SPEED OF GEARBOX	rpm	87.4
COUPLING BETWEEN MOTOR AND GEAR BOX	mm	YES
COUPLING BETWEEN GEAR BOX AND DRUM	mm	N/A
BACK STOP	mm	YES
BRAKE	mm	N/A
PULLEY DATA		
DRIVE DRUM SPEED	rpm	87.4
ANGLE OF WRAP ON DRIVE DRUM	Degrees	180
DRIVE PULLEY DIAMETER	mm	426
TAIL/TAKE UP PULLEY DIAMETER	mm	422
BEND PULLEY DIAMETER	mm	340
SNUB TAIL/DRIVE PULLEY DIAMETER	mm	-
CARRYING IDLERS		
TROUGH ANGLE	Degrees	35
DIAMETER	mm	108
SHAFT DIAMETER	mm	25
IMPACT CARRYING IDLERS		
TROUGH ANGLE	Degrees	35
DIAMETER	mm	108
SHAFT DIAMETER	mm	20
RETURN IDLERS		
TROUGH ANGLE	Degrees	0
DIAMETER	mm	108
SHAFT DIAMETER	mm	20



	1a,b	2a,b	3c,M	4a,4f	5a,5f	6a,6g	7j
DEAD LOAD (kN)	X	Y	Z	X	Y	Z	X
LIVE LOAD (kN)	1	15	12	-13	-2	-17	-22

NOTE:
 1- G.L. ±0.00=+1698.000

DESIGNED	DATES	DATE	DESIGNATION
PREPARED	DATES	May 2022	drawing No.
CHECKED	DATES	May 2022	rep. for
APPROVED	DATES	May 2022	rep. by

TOOBA GISD MEGA MODULE PROJECT

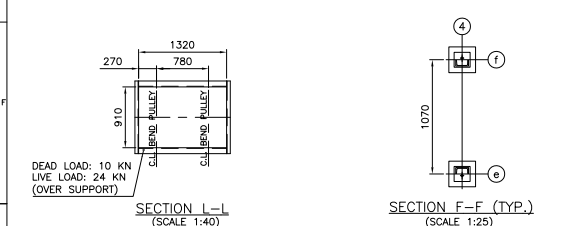
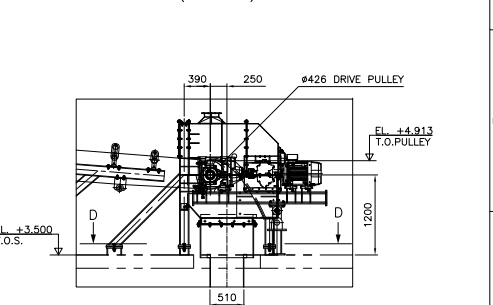
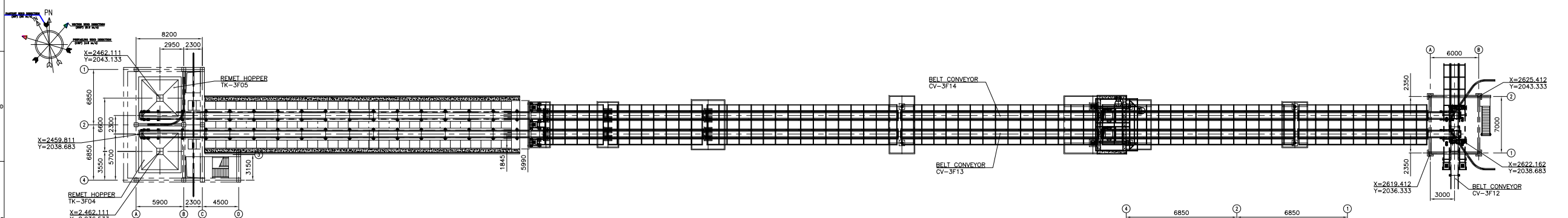
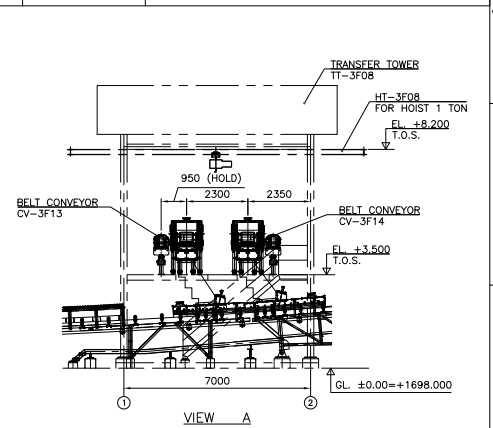
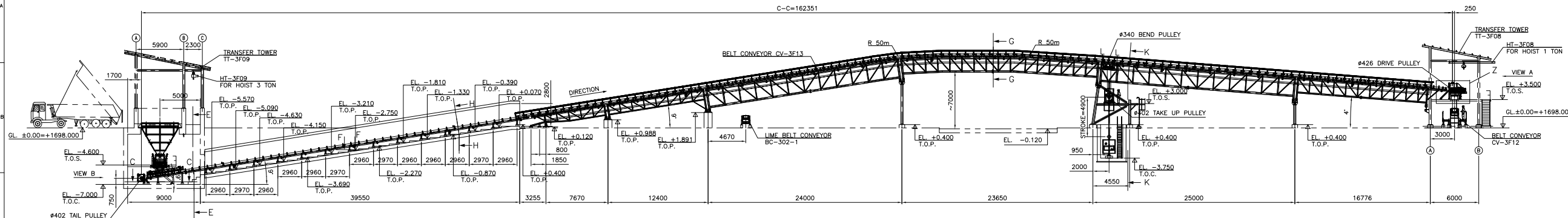
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 ISSUED FOR APPROVAL DATES ENG. DATE ENG. NAGHAMANI
 PURPOSE OF ISSUE PREPARE CHECK APPROVE

Client's Project Code: GISD-01
 Main Contractor: 7-3
 Area Code: 119
 Equipment Code: 1007
 Document Type: 7
 Eng. Discipline: CV
 Serial No.: 04
 M 235

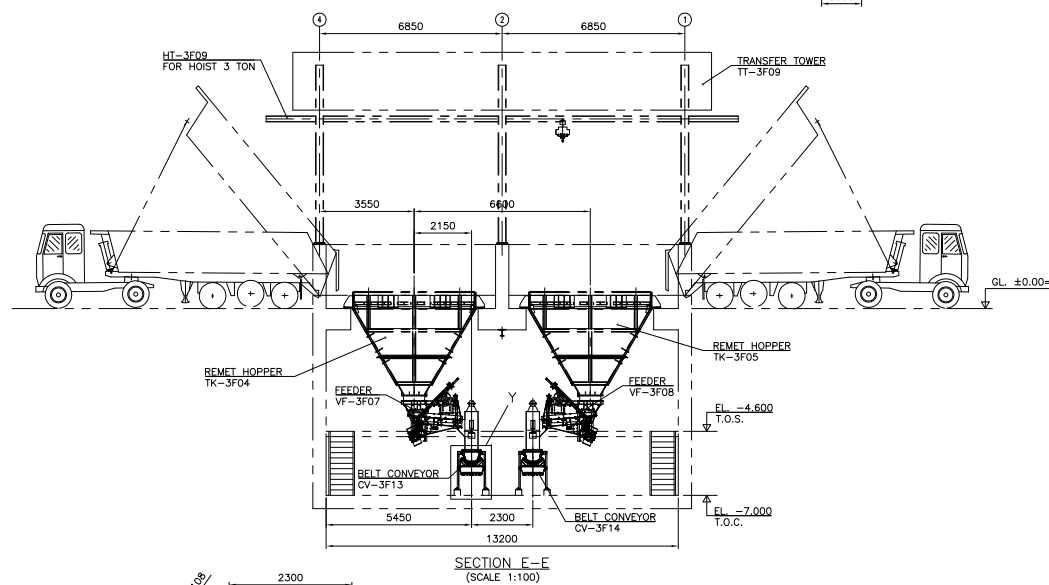
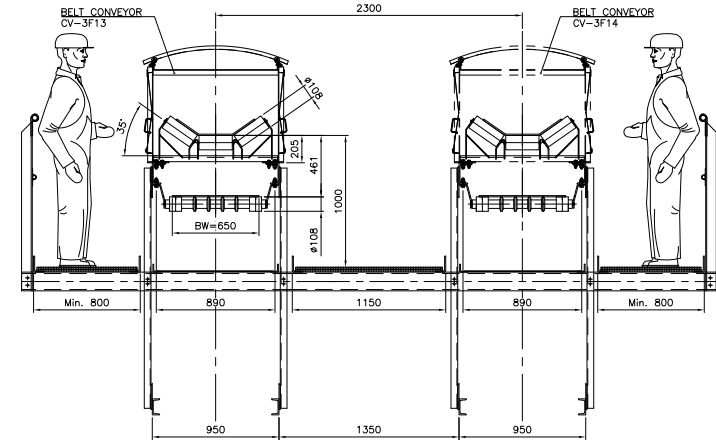
PROJECT: MATERIAL HANDLING SYSTEM ARRANGEMENT & LOADING DRAWING CV-3F08

SCALE: 1:200 SHEET: 03
 SIZE: A0 1/1
 CONT. & REEL NO.: 99/1369

NO.	DRAWING NO.	TITLE
1	TGMMMM04001	MATERIAL HANDLING SYSTEM - LAYOUT
2	TGMMMM04008	MATERIAL HANDLING SYSTEM - GENERAL ARRANGEMENT - BELT CONVEYOR CV-3F13CV-3F14



MECHANICAL ACCESSORIES LOADS:
 GRAVITY LIVE LOADS ON:
 MATERIAL: 29 Kg/m
 GRAVITY DEAD LOADS ON:
 CARRYING IDLER SET: 24 Kg/m
 RETURN IDLER: 4 Kg/m
 BELT COVER: 58 Kg/m
 BELT: 2x9 Kg/m



GENERAL DATA	UNIT	QTY.
DESIGN MASS CAPACITY	t/hr	200
BELT WIDTH	mm	650
HORIZONTAL LENGTH	m	162.351
LIFT	m	10.950
SLOPE OF CONVEYOR	Degrees	9
BELT SPEED	m/s	1.9
FILLING RATIO	%	34
COUNTER WEIGHT	kg	2408
BULK DENSITY	t/m ³	2.2
SURCHARGE ANGLE	Degrees	12

BELT DATA	UNIT	QTY.
TYPE OF BELT		EP 500/3
THICKNESS OF TOP & BOTTOM COVER	mm	6+3
BELT COVER TYPE		DIN X
NORMAL BELT TENSION	kN	19.0
STARTING BELT TENSION	kN	26.9
BELT WEIGHT	kg/m	9

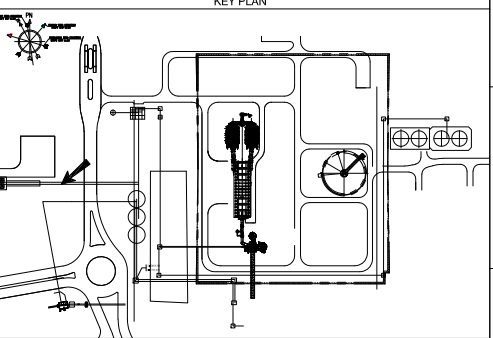
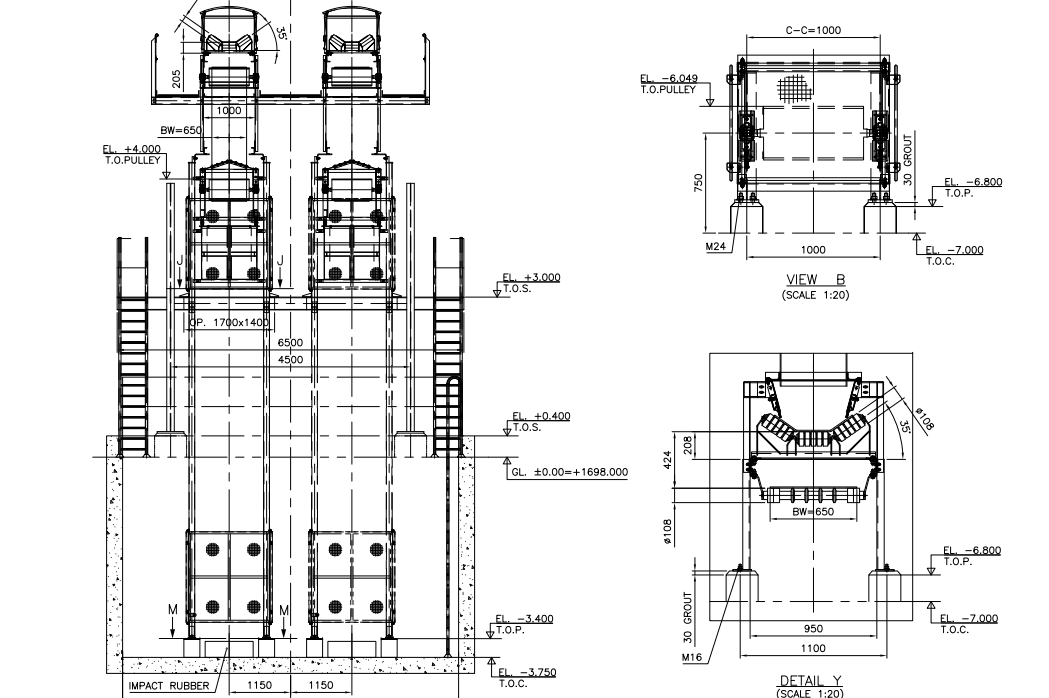
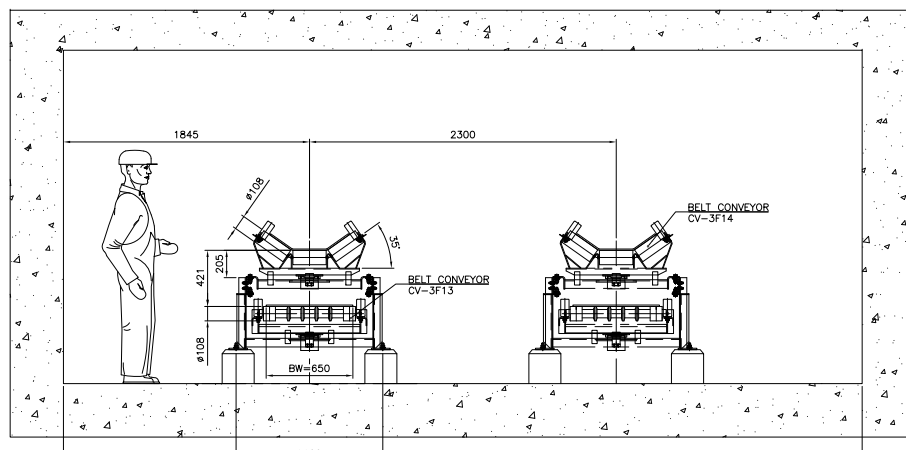
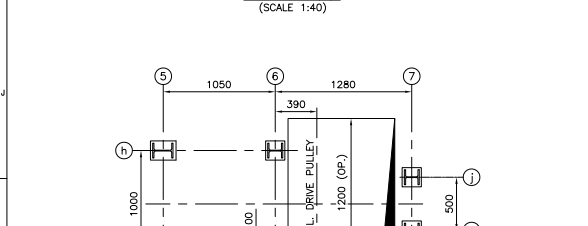
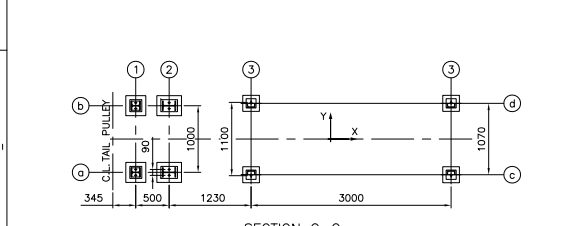
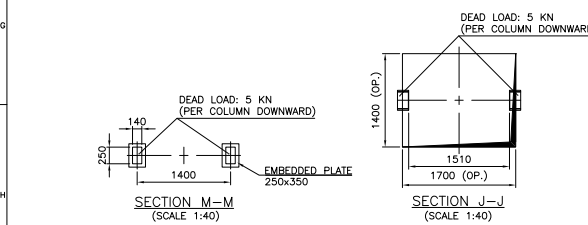
DRIVE UNIT DATA	UNIT	QTY.
ABSORBED PULLEY POWER	kW	14.7
MOTOR POWER REQUIRED	kW	17.7
INSTALLED POWER	kW	22
GEARBOX TYPE		HOLLOW SHAFT WITH SHRINK DISK
OUTPUT SPEED OF GEARBOX	rpm	85.2
COUPLING BETWEEN MOTOR AND GEAR BOX		YES
COUPLING BETWEEN GEAR BOX AND DRUM		N/A
BACK STOP		YES
BRAKE		YES

PULLEY DATA	UNIT	QTY.
DRIVE DRUM SPEED	rpm	85.2
ANGLE OF WRAP ON DRIVE DRUM	Degrees	180
DRIVE PULLEY DIAMETER	mm	426
TAIL/TAKE UP PULLEY DIAMETER	mm	402
BEND PULLEY DIAMETER	mm	340
SNUB TAIL/DRIVE PULLEY DIAMETER	mm	-

CARRYING IDLERS	UNIT	QTY.
TROUGH ANGLE	Degrees	35°
DIAMETER	mm	108
SHAFT DIAMETER	mm	25

IMPACT CARRYING IDLERS	UNIT	QTY.
TROUGH ANGLE	Degrees	35°
DIAMETER	mm	108
SHAFT DIAMETER	mm	20

RETURN IDLERS	UNIT	QTY.
TROUGH ANGLE	Degrees	0°
DIAMETER	mm	108
SHAFT DIAMETER	mm	20



	1a,1b	2a,2b	3a,3b	4a,4f	5a,5g	6a,6g	7a,7j	8a
DEAD LOAD (kN)	-5	-2	-4	-3	-2	-1	-4	-8
LIVE LOAD (kN)	2	16	13	-2	-1	-18	-22	-22

NOTE:
 1- G.L. ±0.00=+1698.000
 * Thickness of Fillet Weld
 SURFACE FINISHES DIN ISO 1302
 GENERAL TOLERANCES: MACHINED PARTS DIN ISO 2768-MS
 SEAMS ±0.7mm
 WELDED CONSTRUCTION DIN ISO 13020

PROJECT: TOBBA GISD MEGA MODULE PROJECT
 CONTRACTOR: GISD
 CLIENT: MINES & METALS TECHNOLOGICAL ENGINEERING CO.
 PROJECT CODE: 7-3
 AREA CODE: 119
 EQUIPMENT CODE: 1007
 DOCUMENT TYPE: CV
 DISCIPLINE: 04
 SHEET NO: M 411



DESIGNED: N/A
 CHECKED: N/A
 APPROVED: N/A

DATE: 02 May 2022
 DATE: 01 Jun 2022
 DATE: 01 Jun 2022

ISSUED FOR CONSTRUCTION
 ISSUED FOR APPROVAL
 PURPOSE OF ISSUE

DATE: 02 May 2022
 DATE: 01 Jun 2022
 DATE: 01 Jun 2022

SCALE: 1:200
 SHEET: 02
 TOTAL SHEETS: 1/1
 CONT. & PROJ. NO: 99/1369

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4) CV-3F05

Flat Belt Conveyor Specifications	Unit	CV-3F05
Basic Data of Conveyor		
Capacity (Design)	t/hr	420
Belt Width	mm	650
Belt Speed	m/s	1.95
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2100
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	73.05
Conveyor Height	m	3.5
Slope Angle of Conveyor Installation	°	7
Angle of the belt wrap on the driving pulley	°	180
Idlers Data of Conveyor		
Max. Friction Factor of Idlers	-	0.03
Carrying Idlers		
No. of Carrying Idlers (in 1 set)	-	3
Diameter of Carrying Idlers	mm	108
Diameter of Idler Shaft	mm	25
Length of Carrying Idlers	mm	250
Trough Angle of Carrying Idlers	°	35
Tilt Angle of Carrying Idlers (In Horizontal plane)	°	1.5
Carrying Idlers Pitch	m	1.0
Return Idlers		
No. of Return Idler (in 1 set)	-	1
Diameter of Return Idlers	mm	108/63
Diameter of Idler Shaft	mm	20
Length of Return Idlers	mm	750
Trough Angle of Return Idlers	°	0
Tilt Angle of Return Idlers (In Horizontal plane)	°	0
Return Idlers Pitch	m	3.0
Pulley Information		
Drive pulley diameter; Rubber grooved lagging 12 mm thickness.	mm	402+24
Drive pulley span; C/C Bearings	mm	1050
Tail / Take up pulley diameter; No lagging	mm	402



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Tail / Take up pulley span; C/C Bearings	mm	1000
Bend & Snub pulley diameter; Rubber plain lagging 10 mm thickness.	mm	320+20
Bend & Snub pulley span; C/C Bearings	mm	1000
Driving Force		
Max. Belt Tension	KN	21.44
Operational Tight-side tension of Drive pulley	KN	13.36
Operational Slack-side tension of Drive pulley	KN	6.32
Operational Tail pulley tension	KN	6.68
Tensioning Device		
Take up system (VG: Ver. Gravity; HG: Horizontal Gravity; SC: Screw)	-	VG
Take up Stroke	mm	2950
Take up total weight	Kg	1304
Motor Specification		
Manufacturer	-	
Catalogue Code	-	
Shaft Power	KW	13.86
Installed Motor Power	KW	22
Speed	rpm	
Line Specification (Voltage/Frequency/Phase/Protection/Insulation)		400/50/3P/IP55/F
Rotation Direction (Viewed from Motor end)	-	
Gearbox Specification		
Manufacturer	-	
Catalogue Code	-	
Service Factor	-	
Transmission Ratio	-	
Output Speed	rpm	87.4
Coupling Specification		
Input Coupling		
Manufacturer	-	
Catalogue Code	-	
Type (HC: Hydro-Coupling; DC: Direct; FC: Flexible)	-	HC
Output Coupling		
Manufacturer	-	-
Catalogue Code	-	-
Type (FC: Flexible; HS: Hallow Shaft)	-	HS
Back Stop Specification		
Torque (Motor Side)	N.m	
Manufacturer	-	

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Catalogue Code	-		
Brake Specification			
Required Braking Torque (Motor Side)	N.m		
Manufacturer	-		
Catalogue Code	-		
Control Instruments			
Mis-alignment Switch	-	Yes	
Emergency Pull Rope Switch	-	Yes	
Speed Indicator	-	Yes	
Other Accessories			
Belt Cover	-	Yes	
Head Side Belt Scraper	-	Yes	
Take up Belt Cleaner	-	Yes	
Tail Side Belt Cleaner	-	Yes	
Belt Information Specification			
Type of Conveyor Belt	EP400/3		
Type of Fabric	EP		
Type of Rubber	ISO H / ISIRI M / DIN X		
Type of Edge	Molded Edge		
Operating Temperature	Max. 90° C		
Dimensions			
Inspection	Standard	Unit	Results
Conveyor Belt Width	ISO 14890	mm	650±1%
Belt Thickness	ISO 583	mm	12±0.8
Top Cover Thickness	ISO 583	mm	6±0.6
Bottom Cover Thickness	ISO 583	mm	3±0.2
Belt Loop Length	ISO 16851	m	154 (+2.5%,-0%)
Number of Plies	ISO 14890	-	3
Rubber Test (changes of elongation at break are less than 25% after aging condition=70°C@168hr – ISO 188)			
Inspection	Standard	Unit	Results
Tensile strength	ISO 37	N/mm ²	Min. 24 before aging
Elongation at Break	ISO 37	%	Min. 450 before aging
Abrasion	ISO 4649	mm ³	Max. 120
Hardness Shore	ISO 48	SH.A	62±3
Rubber Density	-	g/cm ³	~1.15
Belt Test			
Inspection	Standard	Unit	Results

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Tensile Strength	ISO 283	N/mm	Min. 400
Elongation at break	ISO 283	%	Min. 15
Elongation under Standard Load (10% of minimum breaking load)	ISO 283	%	Max. 2
Adhesion Cover and plies S/1	ISO 252	N/mm	Min. 4
Adhesion Ply to Ply	ISO 252	N/mm	Min. 5
Adhesion Cover and Plies S/3	ISO 252	N/mm	Min. 4
Through ability	ISO 703	F/B	Min. 35°C / 0.14
Unit Weight	-	kg/m	9.0±0.5

5) CV-3F06

Flat Belt Conveyor Specifications	Unit	CV-3F06
Basic Data of Conveyor		
Capacity (Design)	t/hr	420
Belt Width	mm	650
Belt Speed	m/s	1.95
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2100
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	98.35
Conveyor Height	m	3.5
Slope Angle of Conveyor Installation	°	7
Angle of the belt wrap on the driving pulley	°	180
Idlers Data of Conveyor		
Max. Friction Factor of Idlers	-	0.03
Carrying Idlers		
No. of Carrying Idlers (in 1 set)	-	3
Diameter of Carrying Idlers	mm	108
Diameter of Idler Shaft	mm	25
Length of Carrying Idlers	mm	250
Trough Angle of Carrying Idlers	°	35
Tilt Angle of Carrying Idlers (In Horizontal plane)	°	1.5
Carrying Idlers Pitch	m	1.0
Return Idlers		



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No. of Return Idler (in 1 set)	-	1
Diameter of Return Idlers	mm	108/63
Diameter of Idler Shaft	mm	20
Length of Return Idlers	mm	750
Trough Angle of Return Idlers	°	0
Tilt Angle of Return Idlers (In Horizontal plane)	°	0
Return Idlers Pitch	m	3.0
Pulley Information		
Drive pulley diameter; Rubber grooved lagging 12 mm thickness.	mm	402+24
Drive pulley span; C/C Bearings	mm	1050
Tail / Take up pulley diameter; No lagging	mm	402
Tail / Take up pulley span; C/C Bearings	mm	1000
Bend & Snub pulley diameter; Rubber plain lagging 10 mm thickness.	mm	320+20
Bend & Snub pulley span; C/C Bearings	mm	1000
Driving Force		
Max. Belt Tension	KN	21.81
Operational Tight-side tension of Drive pulley	KN	14.05
Operational Slack-side tension of Drive pulley	KN	6.32
Operational Tail pulley tension	KN	6.76
Tensioning Device		
Take up system (VG: Ver. Gravity; HG: Horizontal Gravity; SC: Screw)	-	VG
Take up Stroke	mm	2950
Take up total weight	Kg	1304
Motor Specification		
Manufacturer	-	
Catalogue Code	-	
Shaft Power	KW	15.23
Installed Motor Power	KW	22
Speed	rpm	
Line Specification (Voltage/Frequency/Phase/Protection/Insulation)		400/50/3P/IP55/F
Rotation Direction (Viewed from Motor end)	-	-
Gearbox Specification		
Manufacturer	-	
Catalogue Code	-	
Service Factor	-	
Transmission Ratio	-	
Output Speed	rpm	87.4
Coupling Specification		
Input Coupling		

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Manufacturer	-		
Catalogue Code	-	-	
Type (HC: Hydro-Coupling; DC: Direct; FC: Flexible)	-	HC	
Output Coupling			
Manufacturer	-	-	
Catalogue Code	-	-	
Type (FC: Flexible; HS: Hallow Shaft)	-	HS	
Back Stop Specification			
Torque (Motor Side)	N.m		
Manufacturer	-		
Catalogue Code	-		
Brake Specification			
Required Braking Torque (Motor Side)	N.m		
Manufacturer	-		
Catalogue Code	-		
Control Instruments			
Mis-alignment Switch	-	Yes	
Emergency Pull Rope Switch	-	Yes	
Speed Indicator	-	Yes	
Other Accessories			
Belt Cover	-	Yes	
Head Side Belt Scraper	-	Yes	
Take up Belt Cleaner	-	Yes	
Tail Side Belt Cleaner	-	Yes	
Belt Information Specification			
Type of Conveyor Belt	EP400/3		
Type of Fabric	EP		
Type of Rubber	ISO H / ISIRI M / DIN X		
Type of Edge	Molded Edge		
Operating Temperature	Max. 90° C		
Dimensions			
Inspection	Standard	Unit	Results
Conveyor Belt Width	ISO 14890	mm	650±1%
Belt Thickness	ISO 583	mm	12±0.8
Top Cover Thickness	ISO 583	mm	6±0.6
Bottom Cover Thickness	ISO 583	mm	3±0.2
Belt Loop Length	ISO 16851	m	204 (+2.5%, -0%)

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Number of Plies	ISO 14890	-	3
Rubber Test (changes of elongation at break are less than 25% after aging condition=70'C@168hr – ISO 188)			
Inspection	Standard	Unit	Results
Tensile strength	ISO 37	N/mm2	Min. 24 before aging
Elongation at Break	ISO 37	%	Min. 450 before aging
Abrasion	ISO 4649	mm3	Max. 120
Hardness Shore	ISO 48	SH.A	62±3
Rubber Density	-	g/cm3	~1.15
Belt Test			
Inspection	Standard	Unit	Results
Tensile Strength	ISO 283	N/mm	Min. 400
Elongation at break	ISO 283	%	Min. 15
Elongation under Standard Load (10% of minimum breaking load)	ISO 283	%	Max. 2
Adhesion Cover and plies S/1	ISO 252	N/mm	Min. 4
Adhesion Ply to Ply	ISO 252	N/mm	Min. 5
Adhesion Cover and Plies S/3	ISO 252	N/mm	Min. 4
Through ability	ISO 703	F/B	Min. 35°C / 0.14
Unit Weight	-	kg/m	9.0±0.5

6) CV-3F07

Flat Belt Conveyor Specifications	Unit	CV-3F07
Basic Data of Conveyor		
Capacity (Design)	t/hr	420
Belt Width	mm	650
Belt Speed	m/s	1.95
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2100
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	116.1
Conveyor Height	m	8.37
Slope Angle of Conveyor Installation	°	4.5
Angle of the belt wrap on the driving pulley	°	180

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4) CV-3F05

Flat Belt Conveyor Specifications	Unit	CV-3F05
Basic Data of Conveyor		
Capacity (Design)	t/hr	420
Belt Width	mm	650
Belt Speed	m/s	1.95
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2100
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	73.05
Conveyor Height	m	3.5
Slope Angle of Conveyor Installation	°	7
Angle of the belt wrap on the driving pulley	°	180
Idlers Data of Conveyor		
Max. Friction Factor of Idlers	-	0.03
Carrying Idlers		
No. of Carrying Idlers (in 1 set)	-	3
Diameter of Carrying Idlers	mm	108
Diameter of Idler Shaft	mm	25
Length of Carrying Idlers	mm	250
Trough Angle of Carrying Idlers	°	35
Tilt Angle of Carrying Idlers (In Horizontal plane)	°	1.5
Carrying Idlers Pitch	m	1.0
Return Idlers		
No. of Return Idler (in 1 set)	-	1
Diameter of Return Idlers	mm	108/63
Diameter of Idler Shaft	mm	20
Length of Return Idlers	mm	750
Trough Angle of Return Idlers	°	0
Tilt Angle of Return Idlers (In Horizontal plane)	°	0
Return Idlers Pitch	m	3.0
Pulley Information		
Drive pulley diameter; Rubber grooved lagging 12 mm thickness.	mm	402+24
Drive pulley span; C/C Bearings	mm	1050
Tail / Take up pulley diameter; No lagging	mm	402



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Tail / Take up pulley span; C/C Bearings	mm	1000
Bend & Snub pulley diameter; Rubber plain lagging 10 mm thickness.	mm	320+20
Bend & Snub pulley span; C/C Bearings	mm	1000
Driving Force		
Max. Belt Tension	KN	21.44
Operational Tight-side tension of Drive pulley	KN	13.36
Operational Slack-side tension of Drive pulley	KN	6.32
Operational Tail pulley tension	KN	6.68
Tensioning Device		
Take up system (VG: Ver. Gravity; HG: Horizontal Gravity; SC: Screw)	-	VG
Take up Stroke	mm	2950
Take up total weight	Kg	1304
Motor Specification		
Manufacturer	-	
Catalogue Code	-	
Shaft Power	KW	13.86
Installed Motor Power	KW	22
Speed	rpm	
Line Specification (Voltage/Frequency/Phase/Protection/Insulation)		400/50/3P/IP55/F
Rotation Direction (Viewed from Motor end)	-	
Gearbox Specification		
Manufacturer	-	
Catalogue Code	-	
Service Factor	-	
Transmission Ratio	-	
Output Speed	rpm	87.4
Coupling Specification		
Input Coupling		
Manufacturer	-	
Catalogue Code	-	
Type (HC: Hydro-Coupling; DC: Direct; FC: Flexible)	-	HC
Output Coupling		
Manufacturer	-	-
Catalogue Code	-	-
Type (FC: Flexible; HS: Hallow Shaft)	-	HS
Back Stop Specification		
Torque (Motor Side)	N.m	
Manufacturer	-	

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Catalogue Code	-		
Brake Specification			
Required Braking Torque (Motor Side)	N.m		
Manufacturer	-		
Catalogue Code	-		
Control Instruments			
Mis-alignment Switch	-	Yes	
Emergency Pull Rope Switch	-	Yes	
Speed Indicator	-	Yes	
Other Accessories			
Belt Cover	-	Yes	
Head Side Belt Scraper	-	Yes	
Take up Belt Cleaner	-	Yes	
Tail Side Belt Cleaner	-	Yes	
Belt Information Specification			
Type of Conveyor Belt	EP400/3		
Type of Fabric	EP		
Type of Rubber	ISO H / ISIRI M / DIN X		
Type of Edge	Molded Edge		
Operating Temperature	Max. 90° C		
Dimensions			
Inspection	Standard	Unit	Results
Conveyor Belt Width	ISO 14890	mm	650±1%
Belt Thickness	ISO 583	mm	12±0.8
Top Cover Thickness	ISO 583	mm	6±0.6
Bottom Cover Thickness	ISO 583	mm	3±0.2
Belt Loop Length	ISO 16851	m	154 (+2.5%,-0%)
Number of Plies	ISO 14890	-	3
Rubber Test (changes of elongation at break are less than 25% after aging condition=70°C@168hr – ISO 188)			
Inspection	Standard	Unit	Results
Tensile strength	ISO 37	N/mm ²	Min. 24 before aging
Elongation at Break	ISO 37	%	Min. 450 before aging
Abrasion	ISO 4649	mm ³	Max. 120
Hardness Shore	ISO 48	SH.A	62±3
Rubber Density	-	g/cm ³	~1.15
Belt Test			
Inspection	Standard	Unit	Results

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Tensile Strength	ISO 283	N/mm	Min. 400
Elongation at break	ISO 283	%	Min. 15
Elongation under Standard Load (10% of minimum breaking load)	ISO 283	%	Max. 2
Adhesion Cover and plies S/1	ISO 252	N/mm	Min. 4
Adhesion Ply to Ply	ISO 252	N/mm	Min. 5
Adhesion Cover and Plies S/3	ISO 252	N/mm	Min. 4
Through ability	ISO 703	F/B	Min. 35°C / 0.14
Unit Weight	-	kg/m	9.0±0.5

5) CV-3F06

Flat Belt Conveyor Specifications	Unit	CV-3F06
Basic Data of Conveyor		
Capacity (Design)	t/hr	420
Belt Width	mm	650
Belt Speed	m/s	1.95
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2100
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	98.35
Conveyor Height	m	3.5
Slope Angle of Conveyor Installation	°	7
Angle of the belt wrap on the driving pulley	°	180
Idlers Data of Conveyor		
Max. Friction Factor of Idlers	-	0.03
Carrying Idlers		
No. of Carrying Idlers (in 1 set)	-	3
Diameter of Carrying Idlers	mm	108
Diameter of Idler Shaft	mm	25
Length of Carrying Idlers	mm	250
Trough Angle of Carrying Idlers	°	35
Tilt Angle of Carrying Idlers (In Horizontal plane)	°	1.5
Carrying Idlers Pitch	m	1.0
Return Idlers		



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No. of Return Idler (in 1 set)	-	1
Diameter of Return Idlers	mm	108/63
Diameter of Idler Shaft	mm	20
Length of Return Idlers	mm	750
Trough Angle of Return Idlers	°	0
Tilt Angle of Return Idlers (In Horizontal plane)	°	0
Return Idlers Pitch	m	3.0
Pulley Information		
Drive pulley diameter; Rubber grooved lagging 12 mm thickness.	mm	402+24
Drive pulley span; C/C Bearings	mm	1050
Tail / Take up pulley diameter; No lagging	mm	402
Tail / Take up pulley span; C/C Bearings	mm	1000
Bend & Snub pulley diameter; Rubber plain lagging 10 mm thickness.	mm	320+20
Bend & Snub pulley span; C/C Bearings	mm	1000
Driving Force		
Max. Belt Tension	KN	21.81
Operational Tight-side tension of Drive pulley	KN	14.05
Operational Slack-side tension of Drive pulley	KN	6.32
Operational Tail pulley tension	KN	6.76
Tensioning Device		
Take up system (VG: Ver. Gravity; HG: Horizontal Gravity; SC: Screw)	-	VG
Take up Stroke	mm	2950
Take up total weight	Kg	1304
Motor Specification		
Manufacturer	-	
Catalogue Code	-	
Shaft Power	KW	15.23
Installed Motor Power	KW	22
Speed	rpm	
Line Specification (Voltage/Frequency/Phase/Protection/Insulation)		400/50/3P/IP55/F
Rotation Direction (Viewed from Motor end)	-	-
Gearbox Specification		
Manufacturer	-	
Catalogue Code	-	
Service Factor	-	
Transmission Ratio	-	
Output Speed	rpm	87.4
Coupling Specification		
Input Coupling		

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Manufacturer	-		
Catalogue Code	-	-	
Type (HC: Hydro-Coupling; DC: Direct; FC: Flexible)	-	HC	
Output Coupling			
Manufacturer	-	-	
Catalogue Code	-	-	
Type (FC: Flexible; HS: Hallow Shaft)	-	HS	
Back Stop Specification			
Torque (Motor Side)	N.m		
Manufacturer	-		
Catalogue Code	-		
Brake Specification			
Required Braking Torque (Motor Side)	N.m		
Manufacturer	-		
Catalogue Code	-		
Control Instruments			
Mis-alignment Switch	-	Yes	
Emergency Pull Rope Switch	-	Yes	
Speed Indicator	-	Yes	
Other Accessories			
Belt Cover	-	Yes	
Head Side Belt Scraper	-	Yes	
Take up Belt Cleaner	-	Yes	
Tail Side Belt Cleaner	-	Yes	
Belt Information Specification			
Type of Conveyor Belt	EP400/3		
Type of Fabric	EP		
Type of Rubber	ISO H / ISIRI M / DIN X		
Type of Edge	Molded Edge		
Operating Temperature	Max. 90° C		
Dimensions			
Inspection	Standard	Unit	Results
Conveyor Belt Width	ISO 14890	mm	650±1%
Belt Thickness	ISO 583	mm	12±0.8
Top Cover Thickness	ISO 583	mm	6±0.6
Bottom Cover Thickness	ISO 583	mm	3±0.2
Belt Loop Length	ISO 16851	m	204 (+2.5%, -0%)

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Number of Plies	ISO 14890	-	3
Rubber Test (changes of elongation at break are less than 25% after aging condition=70'C@168hr – ISO 188)			
Inspection	Standard	Unit	Results
Tensile strength	ISO 37	N/mm2	Min. 24 before aging
Elongation at Break	ISO 37	%	Min. 450 before aging
Abrasion	ISO 4649	mm3	Max. 120
Hardness Shore	ISO 48	SH.A	62±3
Rubber Density	-	g/cm3	~1.15
Belt Test			
Inspection	Standard	Unit	Results
Tensile Strength	ISO 283	N/mm	Min. 400
Elongation at break	ISO 283	%	Min. 15
Elongation under Standard Load (10% of minimum breaking load)	ISO 283	%	Max. 2
Adhesion Cover and plies S/1	ISO 252	N/mm	Min. 4
Adhesion Ply to Ply	ISO 252	N/mm	Min. 5
Adhesion Cover and Plies S/3	ISO 252	N/mm	Min. 4
Through ability	ISO 703	F/B	Min. 35°C / 0.14
Unit Weight	-	kg/m	9.0±0.5

6) CV-3F07

Flat Belt Conveyor Specifications	Unit	CV-3F07
Basic Data of Conveyor		
Capacity (Design)	t/hr	420
Belt Width	mm	650
Belt Speed	m/s	1.95
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2100
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	116.1
Conveyor Height	m	8.37
Slope Angle of Conveyor Installation	°	4.5
Angle of the belt wrap on the driving pulley	°	180

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Idlers Data of Conveyor		
Max. Friction Factor of Idlers	-	0.03
Carrying Idlers		
No. of Carrying Idlers (in 1 set)	-	3
Diameter of Carrying Idlers	mm	108
Diameter of Idler Shaft	mm	25
Length of Carrying Idlers	mm	250
Trough Angle of Carrying Idlers	°	35
Tilt Angle of Carrying Idlers (In Horizontal plane)	°	1.5
Carrying Idlers Pitch	m	1.0
Return Idlers		
No. of Return Idler (in 1 set)	-	1
Diameter of Return Idlers	mm	108/63
Diameter of Idler Shaft	mm	20
Length of Return Idlers	mm	750
Trough Angle of Return Idlers	°	0
Tilt Angle of Return Idlers (In Horizontal plane)	°	0
Return Idlers Pitch	m	3.0
Pulley Information		
Drive pulley diameter; Rubber grooved lagging 12 mm thickness.	mm	402+24
Drive pulley span; C/C Bearings	mm	1050
Tail / Take up pulley diameter; No lagging	mm	402
Tail / Take up pulley span; C/C Bearings	mm	1000
Bend & Snub pulley diameter; Rubber plain lagging 10 mm thickness.	mm	320+20
Bend & Snub pulley span; C/C Bearings	mm	1000
Driving Force		
Max. Belt Tension	KN	28.32
Operational Tight-side tension of Drive pulley	KN	17.71
Operational Slack-side tension of Drive pulley	KN	7.79
Operational Tail pulley tension	KN	7.91
Tensioning Device		
Take up system (VG: Ver. Gravity; HG: Horizontal Gravity; SC: Screw)	-	VG
Take up Stroke	mm	4100
Take up total weight	Kg	1607
Motor Specification		
Manufacturer	-	
Catalogue Code	-	
Shaft Power	KW	19.52
Installed Motor Power	KW	30

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Speed	rpm	
Line Specification (Voltage/Frequency/Phase/Protection/Insulation)		400/50/3P/IP55/F
Rotation Direction (Viewed from Motor end)	-	
Gearbox Specification		
Manufacturer	-	
Catalogue Code	-	
Service Factor	-	
Transmission Ratio	-	
Output Speed	rpm	87.4
Coupling Specification		
Input Coupling		
Manufacturer	-	
Catalogue Code	-	
Type (HC: Hydro-Coupling; DC: Direct; FC: Flexible)	-	HC
Output Coupling		
Manufacturer	-	
Catalogue Code	-	
Type (FC: Flexible; HS: Hallow Shaft)	-	HS
Back Stop Specification		
Torque (Motor Side)	N.m	
Manufacturer	-	
Catalogue Code	-	
Brake Specification		
Required Braking Torque (Motor Side)	N.m	
Manufacturer	-	
Catalogue Code	-	
Control Instruments		
Mis-alignment Switch	-	Yes
Emergency Pull Rope Switch	-	Yes
Speed Indicator	-	Yes
Other Accessories		
Belt Cover	-	Yes
Head Side Belt Scraper	-	Yes
Take up Belt Cleaner	-	Yes
Tail Side Belt Cleaner	-	Yes
Belt Information		
Specification		
Type of Conveyor Belt		EP500/3



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Type of Fabric	EP		
Type of Rubber	ISO H / ISIRI M / DIN X		
Type of Edge	Molded Edge		
Operating Temperature	Max. 90' C		
Dimensions			
Inspection	Standard	Unit	Results
Conveyor Belt Width	ISO 14890	mm	650±1%
Belt Thickness	ISO 583	mm	13±0.8
Top Cover Thickness	ISO 583	mm	6±0.6
Bottom Cover Thickness	ISO 583	mm	3±0.2
Belt Loop Length	ISO 16851	m	241 (+2.5%, -0%)
Number of Plies	ISO 14890	-	3
Rubber Test (changes of elongation at break are less than 25% after aging condition=70°C@168hr – ISO 188)			
Inspection	Standard	Unit	Results
Tensile strength	ISO 37	N/mm ²	Min. 24 before aging
Elongation at Break	ISO 37	%	Min. 450 before aging
Abrasion	ISO 4649	mm ³	Max. 120
Hardness Shore	ISO 48	SH.A	62±3
Rubber Density	-	g/cm ³	~1.15
Belt Test			
Inspection	Standard	Unit	Results
Tensile Strength	ISO 283	N/mm	Min. 500
Elongation at break	ISO 283	%	Min. 15
Elongation under Standard Load (10% of minimum breaking load)	ISO 283	%	Max. 2
Adhesion Cover and plies S/1	ISO 252	N/mm	Min. 4
Adhesion Ply to Ply	ISO 252	N/mm	Min. 5
Adhesion Cover and Plies S/3	ISO 252	N/mm	Min. 4
Through ability	ISO 703	F/B	Min. 35'C / 0.14
Unit Weight	-	kg/m	9.7±0.5

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7) CV-3F08

Flat Belt Conveyor Specifications	Unit	CV-3F08
Basic Data of Conveyor		
Capacity (Design)	t/hr	420
Belt Width	mm	650
Belt Speed	m/s	1.95
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2100
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	116.1
Conveyor Height	m	8.55
Slope Angle of Conveyor Installation	°	4.5
Angle of the belt wrap on the driving pulley	°	180
Idlers Data of Conveyor		
Max. Friction Factor of Idlers	-	0.03
Carrying Idlers		
No. of Carrying Idlers (in 1 set)	-	3
Diameter of Carrying Idlers	mm	108
Diameter of Idler Shaft	mm	25
Length of Carrying Idlers	mm	250
Trough Angle of Carrying Idlers	°	35
Tilt Angle of Carrying Idlers (In Horizontal plane)	°	1.5
Carrying Idlers Pitch	m	1.0
Return Idlers		
No. of Return Idler (in 1 set)	-	1
Diameter of Return Idlers	mm	108/63
Diameter of Idler Shaft	mm	20
Length of Return Idlers	mm	750
Trough Angle of Return Idlers	°	0
Tilt Angle of Return Idlers (In Horizontal plane)	°	0
Return Idlers Pitch	m	3.0
Pulley Information		
Drive pulley diameter; Rubber grooved lagging 12 mm thickness.	mm	402+24
Drive pulley span; C/C Bearings	mm	1050
Tail / Take up pulley diameter; No lagging	mm	402

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Elongation at break	ISO 283	%	Min. 15
Elongation under Standard Load (10% of minimum breaking load)	ISO 283	%	Max. 2
Adhesion Cover and plies S/1	ISO 252	N/mm	Min. 4
Adhesion Ply to Ply	ISO 252	N/mm	Min. 5
Adhesion Cover and Plies S/3	ISO 252	N/mm	Min. 4
Through ability	ISO 703	F/B	Min. 35°C / 0.14
Unit Weight	-	kg/m	9.0±0.5

11) CV-3F12

Pocket Belt Conveyor Description	Unit	CV-3F12
Basic Data of Conveyor		
Capacity (Design)	t/hr	420
Belt Width	mm	650
Belt Speed	m/s	1.95
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2100
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	119.575
Conveyor Height	m	13.15
Slope Angle of Conveyor Installation	°	12
Angle of the belt wrap on the driving pulley	°	207
Idlers Data of Conveyor		
Max Friction Factor of Idlers	-	0.03
Carrying Idlers		
No. of Carrying Idlers (in 1 set)	-	3
Diameter of Carrying Idlers	mm	108
Diameter of Idler Shaft	mm	25
Length of Carrying Idlers	mm	250
Trough Angle of Carrying Idlers	°	35
Tilt Angle of Carrying Idlers (In Horizontal plane)	°	1.5
Carrying Idlers Pitch	m	1.0
Return Idlers		



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No. of Return Idler (in 1 set)	-	1
Diameter of Return Idlers	mm	108/63
Diameter of Idler Shaft	mm	20
Length of Return Idlers	mm	750
Trough Angle of Return Idlers	°	0
Tilt Angle of Return Idlers (In Horizontal plane)	°	0
Return Idlers Pitch	m	3.0
Pulley Information		
Drive pulley diameter; Rubber grooved lagging 12 mm thickness.	mm	504+24
Drive pulley span; C/C Bearings	mm	1370
Tail / Take up pulley diameter; No lagging	mm	402
Tail / Take up pulley span; C/C Bearings	mm	1000
Bend & Snub pulley diameter; Rubber plain lagging 10 mm thickness.	mm	320+20
Bend & Snub pulley span; C/C Bearings	mm	1000/1370
Driving Forces		
Max. Belt Tension	KN	40.21
Operational Tight-side tension of Drive pulley	KN	26.12
Operational Slack-side tension of Drive pulley	KN	10.41
Operational Tail pulley tension	KN	10.12
Tensioning Device		
Take up system (VG: Ver. Gravity; HG: Horizontal Gravity; SC: Screw)	-	VG
Take up Stroke	mm	3600
Take up total weight	Kg	2108
Motor Specification		
Motor Manufacturer	-	
Motor Type (Standard)	-	
Shaft Power	KW	30.87
Installed Motor Power	KW	45
Motor Speed	rpm	
Line Specification (Voltage/Frequency/Phase/Protection/Insulation)	-	400/50/3P/IP55/F
Motor Rotation Direction (Viewed from Motor end)	-	-
Gear Box Specification		
Manufacturer	-	
Catalogue Code	-	
Service Factor	-	
Output Speed	rpm	70.5
Coupling Specification		
Input Coupling		

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Manufacturer	-	
Catalogue Code	-	
Type (HC: Hydro-Coupling; DC: Direct)	-	HC
Output Coupling		
Manufacturer	-	
Catalogue Code	-	
Type (FC: Flexible; HS: Hallow Shaft)	-	HS
Back Stop Specification		
Back stop Required	-	
Back stop Torque (Input Side)	N.m	
Back Stop Manufacturer	-	
Brake Specification		
Brake Required	-	
Braking Torque	N.m	
Brake Manufacturer and Catalogue Code	-	
Control Instruments		
Mis-alignment Switch	-	Yes
Emergency Pull Rope Switch	-	Yes
Speed Indicator	-	Yes
Other Accessories		
Belt Cover	-	Yes
Head Side Belt Scraper	-	Yes
Take up Belt Cleaner	-	No
Tail Side Belt Cleaner	-	Yes
Belt Information		
Specification		
Type of Conveyor Belt		EP630/4
Type of Fabric		EP
Type of Rubber		ISO H / ISIRI M / DIN X
Type of Edge		Molded Edge
Operating Temperature		Max. 90' C
Dimensions		
Inspection	Standard	Unit
Conveyor Belt Width	ISO 14890	mm
Belt Thickness	ISO 583	mm
Top Cover Thickness	ISO 583	mm
Bottom Cover Thickness	ISO 583	mm
Belt Loop Length	ISO 16851	m
		Results
		650±1%
		14±0.8
		6±0.6
		3±0.2
		251 (+2.5%,-0%)

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Number of Plies	ISO 14890	-	4
Rubber Test (changes of elongation at break are less than 25% after aging condition=70°C@168hr – ISO 188)			
Inspection	Standard	Unit	Results
Tensile strength	ISO 37	N/mm ²	Min. 24 before aging
Elongation at Break	ISO 37	%	Min. 450 before aging
Abrasion	ISO 4649	mm ³	Max. 120
Hardness Shore	ISO 48	SH.A	62±3
Rubber Density	-	g/cm ³	~1.15
Belt Test			
Inspection	Standard	Unit	Results
Tensile Strength	ISO 283	N/mm	Min. 630
Elongation at break	ISO 283	%	Min. 15
Elongation under Standard Load (10% of minimum breaking load)	ISO 283	%	Max. 2
Adhesion Cover and plies S/1	ISO 252	N/mm	Min. 4
Adhesion Ply to Ply	ISO 252	N/mm	Min. 5
Adhesion Cover and Plies S/3	ISO 252	N/mm	Min. 4
Through ability	ISO 703	F/B	Min. 35°C / 0.14
Unit Weight	-	kg/m	10.5±0.5

12) CV-3F13

Pocket Belt Conveyor Description	Unit	CV-3F13
Basic Data of Conveyor		
Capacity (Rating)	t/hr	200
Belt Width	mm	650
Belt Speed	m/s	1.9
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2200
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	162.351
Conveyor Height	m	10.95
Slope Angle of Conveyor Installation	°	9
Angle of the belt wrap on the driving pulley	°	180



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Idlers Data of Conveyor		
Max Friction Factor of Idlers	-	0.03
Carrying Idlers		
No. of Carrying Idlers (in 1 set)	-	3
Diameter of Carrying Idlers	mm	108
Diameter of Idler Shaft	mm	25
Length of Carrying Idlers	mm	250
Trough Angle of Carrying Idlers	°	35
Tilt Angle of Carrying Idlers (In Horizontal plane)	°	1.5
Carrying Idlers Pitch	m	1.0
Return Idlers		
No. of Return Idler (in 1 set)	-	1
Diameter of Return Idlers	mm	108/63
Diameter of Idler Shaft	mm	20
Length of Return Idlers	mm	750
Trough Angle of Return Idlers	°	0
Tilt Angle of Return Idlers (In Horizontal plane)	°	0
Return Idlers Pitch	m	3.0
Pulley Information		
Drive pulley diameter; Rubber grooved lagging 12 mm thickness.	mm	402+24
Drive pulley span; C/C Bearings	mm	1050
Tail / Take up pulley diameter; No lagging	mm	402
Tail / Take up pulley span; C/C Bearings	mm	1000
Bend & Snub pulley diameter; Rubber plain lagging 10 mm thickness.	mm	320+20
Bend & Snub pulley span; C/C Bearings	mm	1000
Driving Forces		
Max. Belt Tension	KN	26.88
Operational Tight-side tension of Drive pulley	KN	19.03
Operational Slack-side tension of Drive pulley	KN	11.37
Operational Tail pulley tension	KN	11.43
Tensioning Device		
Take up system (VG: Ver. Gravity; HG: Horizontal Gravity; SC: Screw)	-	VG
Take up Stroke	mm	4900
Take up total weight	Kg	2408
Motor Specification		
Motor Manufacturer	-	
Motor Type (Standard)	-	
Shaft Power	KW	14.72
Installed Motor Power	KW	22



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Motor Speed	rpm	
Line Specification (Voltage/Frequency/Phase/Protection/Insulation)	-	400/50/3P/IP55/F
Motor Rotation Direction (Viewed from Motor end)	-	
Gear Box Specification		
Manufacturer	-	
Catalogue Code	-	
Service Factor	-	
Output Speed	rpm	85.2
Coupling Specification		
Input Coupling		
Manufacturer	-	
Catalogue Code	-	
Type (HC: Hydro-Coupling; DC: Direct)	-	HC
Output Coupling		
Manufacturer	-	
Catalogue Code	-	
Type (FC: Flexible; HS: Hallow Shaft)	-	HS
Back Stop Specification		
Back stop Required	-	
Back stop Torque (Input Side)	N.m	
Back Stop Manufacturer	-	
Brake Specification		
Brake Required	-	
Braking Torque	N.m	
Brake Manufacturer and Catalogue Code	-	
Control Instruments		
Mis-alignment Switch	-	Yes
Emergency Pull Rope Switch	-	Yes
Speed Indicator	-	Yes
Other Accessories		
Belt Cover	-	Yes
Head Side Belt Scraper	-	Yes
Take up Belt Cleaner	-	Yes
Tail Side Belt Cleaner	-	Yes
Belt Information Specification		
Type of Conveyor Belt		EP400/3
Type of Fabric		EP



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Type of Rubber			ISO H / ISIRI M / DIN X
Type of Edge			Molded Edge
Operating Temperature			Max. 90' C
Dimensions			
Inspection	Standard	Unit	Results
Conveyor Belt Width	ISO 14890	mm	650±1%
Belt Thickness	ISO 583	mm	12±0.8
Top Cover Thickness	ISO 583	mm	6±0.6
Bottom Cover Thickness	ISO 583	mm	3±0.2
Belt Loop Length	ISO 16851	m	337 (+2.5%,-0%)
Number of Plies	ISO 14890	-	3
Rubber Test (changes of elongation at break are less than 25% after aging condition=70°C@168hr – ISO 188)			
Inspection	Standard	Unit	Results
Tensile strength	ISO 37	N/mm ²	Min. 24 before aging
Elongation at Break	ISO 37	%	Min. 450 before aging
Abrasion	ISO 4649	mm ³	Max. 120
Hardness Shore	ISO 48	SH.A	62±3
Rubber Density	-	g/cm ³	~1.15
Belt Test			
Inspection	Standard	Unit	Results
Tensile Strength	ISO 283	N/mm	Min. 400
Elongation at break	ISO 283	%	Min. 15
Elongation under Standard Load (10% of minimum breaking load)	ISO 283	%	Max. 2
Adhesion Cover and plies S/1	ISO 252	N/mm	Min. 4
Adhesion Ply to Ply	ISO 252	N/mm	Min. 5
Adhesion Cover and Plies S/3	ISO 252	N/mm	Min. 4
Through ability	ISO 703	F/B	Min. 35°C / 0.14
Unit Weight	-	kg/m	9.0±0.5

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13) CV-3F14

Pocket Belt Conveyor Description	Unit	CV-3F14
Basic Data of Conveyor		
Capacity (Design)	t/hr	200
Belt Width	mm	650
Belt Speed	m/s	1.9
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2200
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	162.351
Conveyor Height	m	10.95
Slope Angle of Conveyor Installation	°	9
Angle of the belt wrap on the driving pulley	°	180
Idlers Data of Conveyor		
Max Friction Factor of Idlers	-	0.03
Carrying Idlers		
No. of Carrying Idlers (in 1 set)	-	3
Diameter of Carrying Idlers	mm	108
Diameter of Idler Shaft	mm	25
Length of Carrying Idlers	mm	250
Trough Angle of Carrying Idlers	°	35
Tilt Angle of Carrying Idlers (In Horizontal plane)	°	1.5
Carrying Idlers Pitch	m	1.0
Return Idlers		
No. of Return Idler (in 1 set)	-	1
Diameter of Return Idlers	mm	108/63
Diameter of Idler Shaft	mm	20
Length of Return Idlers	mm	750
Trough Angle of Return Idlers	°	0
Tilt Angle of Return Idlers (In Horizontal plane)	°	0
Return Idlers Pitch	m	3.0
Pulley Information		
Drive pulley diameter; Rubber grooved lagging 12 mm thickness.	mm	402+24
Drive pulley span; C/C Bearings	mm	1050
Tail / Take up pulley diameter; No lagging	mm	402



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Tail / Take up pulley span; C/C Bearings	mm	1000
Bend & Snub pulley diameter; Rubber plain lagging 10 mm thickness.	mm	320+20
Bend & Snub pulley span; C/C Bearings	mm	1000
Driving Forces		
Max. Belt Tension	KN	26.88
Operational Tight-side tension of Drive pulley	KN	19.03
Operational Slack-side tension of Drive pulley	KN	11.37
Operational Tail pulley tension	KN	11.43
Tensioning Device		
Take up system (VG: Ver. Gravity; HG: Horizontal Gravity; SC: Screw)	-	VG
Take up Stroke	mm	4900
Take up total weight	Kg	2408
Motor Specification		
Motor Manufacturer	-	
Motor Type (Standard)	-	
Shaft Power	KW	14.72
Installed Motor Power	KW	22
Motor Speed	rpm	
Line Specification (Voltage/Frequency/Phase/Protection/Insulation)	-	400/50/3P/IP55/F
Motor Rotation Direction (Viewed from Motor end)	-	
Gear Box Specification		
Manufacturer	-	
Catalogue Code	-	
Service Factor	-	
Output Speed	rpm	85.2
Coupling Specification		
Input Coupling		
Manufacturer	-	
Catalogue Code	-	
Type (HC: Hydro-Coupling; DC: Direct)	-	HC
Output Coupling		
Manufacturer	-	
Catalogue Code	-	
Type (FC: Flexible; HS: Hallow Shaft)	-	HS
Back Stop Specification		
Back stop Required	-	
Back stop Torque (Input Side)	N.m	
Back Stop Manufacturer	-	



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Brake Specification			
Brake Required	-		
Braking Torque	N.m		
Brake Manufacturer and Catalogue Code	-		
Control Instruments			
Mis-alignment Switch	-	Yes	
Emergency Pull Rope Switch	-	Yes	
Speed Indicator	-	Yes	
Other Accessories			
Belt Cover	-	Yes	
Head Side Belt Scraper	-	Yes	
Take up Belt Cleaner	-	Yes	
Tail Side Belt Cleaner	-	Yes	
Belt Information			
Specification			
Type of Conveyor Belt	EP400/3		
Type of Fabric	EP		
Type of Rubber	ISO H / ISIRI M / DIN X		
Type of Edge	Molded Edge		
Operating Temperature	Max. 90' C		
Dimensions			
Inspection	Standard	Unit	Results
Conveyor Belt Width	ISO 14890	mm	650±1%
Belt Thickness	ISO 583	mm	12±0.8
Top Cover Thickness	ISO 583	mm	6±0.6
Bottom Cover Thickness	ISO 583	mm	3±0.2
Belt Loop Length	ISO 16851	m	337 (+2.5%,-0%)
Number of Plies	ISO 14890	-	3
Rubber Test (changes of elongation at break are less than 25% after aging condition=70'C@168hr – ISO 188)			
Inspection	Standard	Unit	Results
Tensile strength	ISO 37	N/mm ²	Min. 24 before aging
Elongation at Break	ISO 37	%	Min. 450 before aging
Abrasion	ISO 4649	mm ³	Max. 120
Hardness Shore	ISO 48	SH.A	62±3
Rubber Density	-	g/cm ³	~1.15
Belt Test			
Inspection	Standard	Unit	Results
Tensile Strength	ISO 283	N/mm	Min. 400

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Elongation at break	ISO 283	%	Min. 15
Elongation under Standard Load (10% of minimum breaking load)	ISO 283	%	Max. 2
Adhesion Cover and plies S/1	ISO 252	N/mm	Min. 4
Adhesion Ply to Ply	ISO 252	N/mm	Min. 5
Adhesion Cover and Plies S/3	ISO 252	N/mm	Min. 4
Through ability	ISO 703	F/B	Min. 35°C / 0.14
Unit Weight	-	kg/m	9.0±0.5

14) CV-3F15

Pocket Belt Conveyor Description	Unit	CV-3F15
Basic Data of Conveyor		
Capacity (Design)	t/hr	55
Belt Width	mm	500
Belt Speed	m/s	1.5
Max. Material Lump size	mm	<16
Material Temperature	°C	Ambient
Material Density	kg/m ³	2100
Surcharge angle of Material	°	12
Geometry of Conveyor		
Conveyor Length (Center to Center Horizontal Length)	m	34.822
Conveyor Height	m	13.75
Slope Angle of Conveyor Installation	°	30
Angle of the belt wrap on the driving pulley	°	180
Idlers Data of Conveyor		
Max Friction Factor of Idlers	-	0.03
Carrying Idlers		
No. of Carrying Idlers (in 1 set)	-	1
Diameter of Carrying Idlers	mm	108
Diameter of Idler Shaft	mm	25
Length of Carrying Idlers	mm	600
Trough Angle of Carrying Idlers	°	0
Tilt Angle of Carrying Idlers (In Horizontal plane)	°	-
Carrying Idlers Pitch	m	1
Return Stub Idlers		