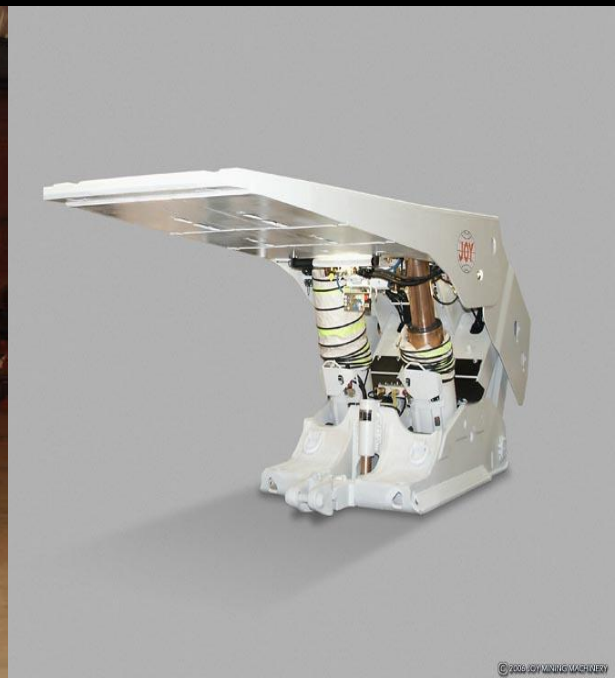




JESSOP & CO. LTD., KOLKATA





Jessop & Co. Ltd

• Founded in 1788 by the sons of William Jessop, an eminent British Engineer.

• Now into 3rd Century Operation.

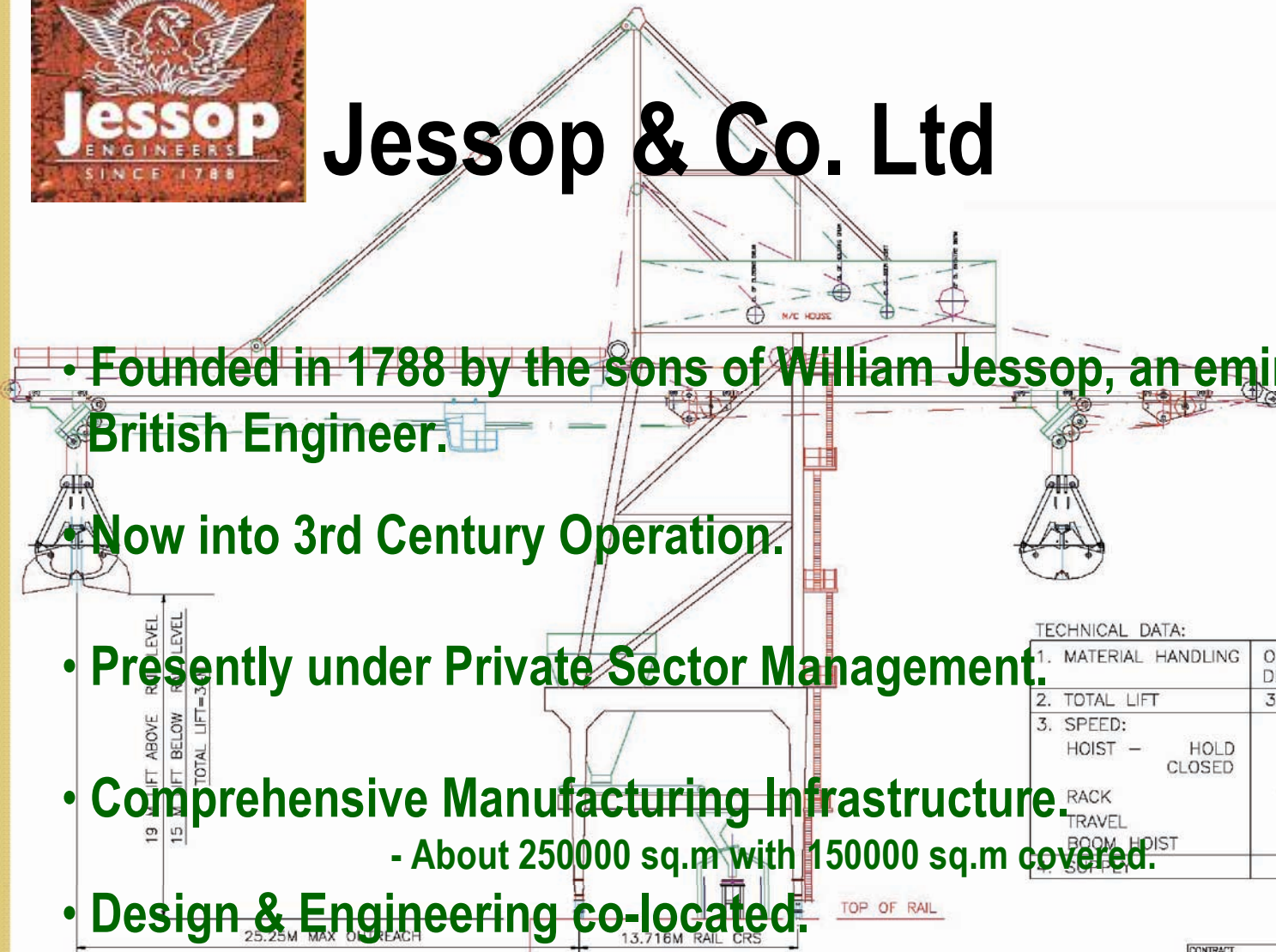
• Presently under Private Sector Management.

• Comprehensive Manufacturing Infrastructure.

- About 250000 sq.m with 150000 sq.m covered.

• Design & Engineering co-located.

• Many Distinguished Achievements to its credit.



TECHNICAL DATA:

1. MATERIAL HANDLING	ORE & FERTILIZER. DENSITY: 1.38T/Cu.M, 0.95 T/Cu.M.
2. TOTAL LIFT	34M.
3. SPEED:	
HOIST — HOLD	91.6 Mpm.
CLOSED	
RACK TRAVEL	109.75 Mpm.
ROOM HOIST	15.0 Mpm.
4. SUPPLY	RAISED IN 6 Mins.
	3300 VOLTS, 3 Phs. ~ 50 Hz.

CONTRACT TWO-700M.T.P.HMARINE CLAM-SHELL UNLOADER FOR HALDIA DOCK PROJECT			WEIGHT	MATERIAL
ASSEMBLY	DRG.NO.	TYPE/CODE	GROUP/ORDER NO.	SUPERSEDED BY
			5H634D	NAME DATE
Jessop & Co. Ltd.			DRAWN	A.K.M 9.07.78
CALCUTTA			CHECKED	
TITLE GENERAL ARRANGEMENT			SEC LOR.	
			APPROVED	T.D.B 18.07.78
			DRG. No.	92409
			REV.	



Jessop & Co. Ltd

MOTION	LOAD & SPEED	MOTOR
MAIN HOIST	85 TONS @ 5.33 FT./ MIN. 15 FALLS	48 HP @ 730 R.P.M.
AUX. HOIST	9 TONS @ 3.5 FT./ MIN. SINGLE FALL	48 HP @ 730 R.P.M.
DERRICK	ALL LOADS @ 3.9 FT./MIN. 8 FALLS	32 HP @ 730 R.P.M.
SLEW	ALL LOADS @ 3.9 FT./MIN.	2 - NOS. 16 HP @ 720 R.P.M.

'Firsts' milestone in engineering and technology such as:

1815-1840: First iron bridge (Lohe Ka Pul) over Gomti at Lucknow.

1819: First steam boat to sail on Indian waters.

1890: First steam road roller for Indian road and other construction.

1937-1943: First semi balance cantilever bridge over Hooghly River
-Howrah Bridge at Kolkata.

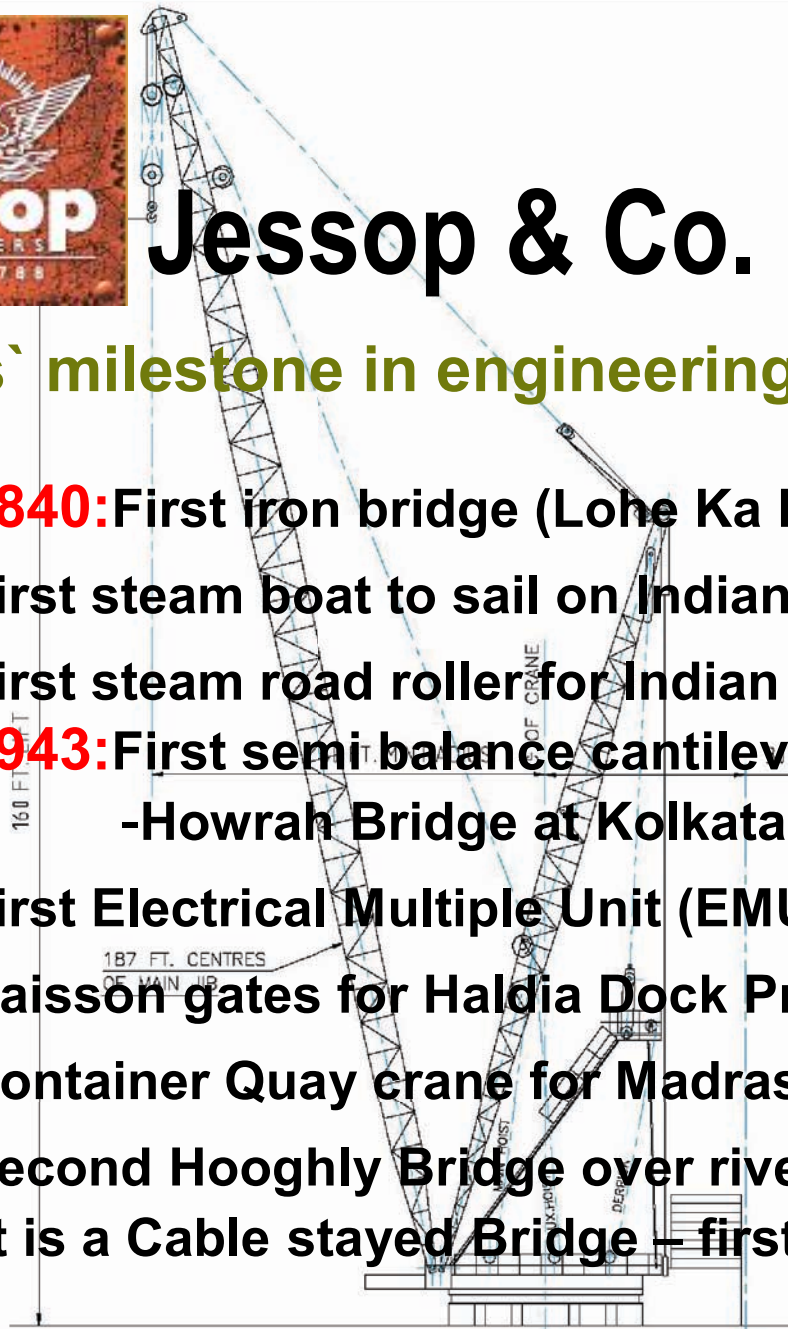
1959: First Electrical Multiple Unit (EMU) coach for Indian Railways.

1976: Caisson gates for Haldia Dock Project, first time in India.

1983: Container Quay crane for Madras Port Trust.

1993: Second Hooghly Bridge over river Hooghly
(it is a Cable stayed Bridge – first in India.

MOTION	LOAD & SPEED	MOTOR
MAIN HOIST	90' - 0"	40 T. 144' - 0"
AUX. HOIST	125' - 0"	17.5 T. 126' - 0"
	200' - 0"	10 T. 65' - 0"
	74' - 0"	10 T. 160' - 0"



ERECTION CRANE

WITH 187 FT. BOOM LENGTH
EXTENSION OF BOOM LENGTH
BY 27 FT. WITHOUT REDUCTION
OF LIFTING CAPACITY

SKT/HALDIA-4



PRODUCT PROFILE

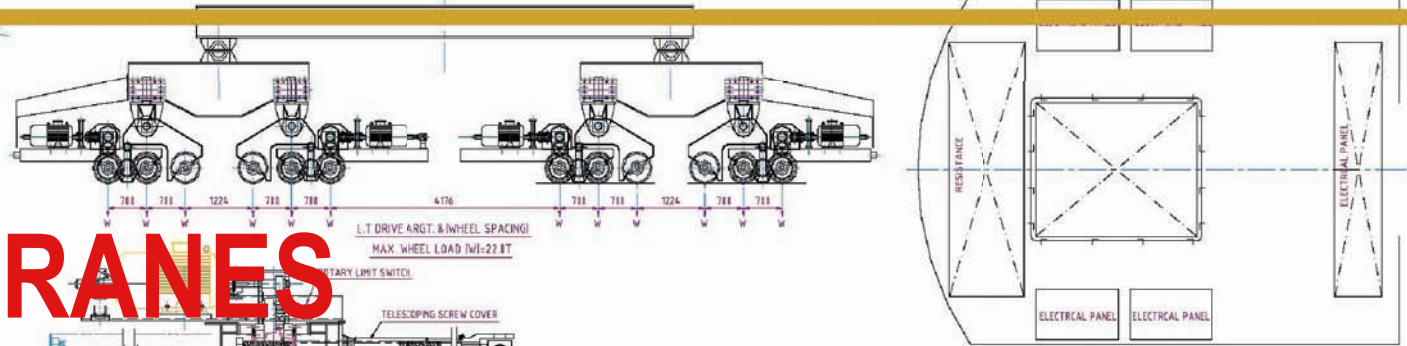
MOTION	LOAD & SPEED	MOTOR
MAIN HOIST	85 TONS @ 5.33 FT./ MIN. 15 FALLS	48 HP @ 730 R.P.M.
AUX. HOIST	9 TONS @ 3.5 FT./ MIN. SINGLE FALL	48 HP @ 730 R.P.M.
DERICK	ALL LOADS @ 3.9 FT./MIN. 8 FALLS	32 HP @ 730 R.P.M.
SLEW	ALL LOADS @ 3.9 FT./MIN.	2 - NOS. 16 HP @ 720 R.P.M.

UNIT	RADIUS	LOAD	LIFT
MAIN HOIST	60' - 0"	85 T.	160' - 0"
AUX. HOIST	200' - 0"	10 T.	160' - 0"
DERICK	125' - 0"	40 T.	144' - 0"
		125 T.	126' - 0"
		10 T.	65' - 0"
		10 T.	160' - 0"

- **Structures:** Industrial Buildings, Steel Bridges, Technological Structures.
- **Hydro-Mechanical Equipment:** Radial, Vertical, Caisson Gates etc.
- **Cranes:** EOT, Goliath, Steel Mill, Dockside and Port Cranes.
- **Crane Accessories:** Tongs, Hooks, Grabs, Gear Boxes & Couplings.
- **Railway Rolling Stock:** Passenger Coaches, EMU Coaches, Wagons, Loco Shells.
- **Construction Equipment:** Diesel Road Rollers, Tandem Rollers, Vibratory Compactors.
- **Mining Machinery:** Long Wall Roof Supports and Hydraulic Cylinders.



ERECTION CRANE
 WITH 187 FT. BOOM LENGTH
 EXTENSION OF BOOM LENGTH
 BY 27 FT. WITHOUT REDUCTION
 OF LIFTING CAPACITY
 SKT/HALDIA-4



ELL Crane at Hindustan Shipyard, Vizag



Container Handling Crane at Madras Port Trust

CONTROL PANEL
CONTROLLER
PILOT'S CABIN
ENGINE

CONTROL P

8
LOADED CR
75M/MIN
76.4
HORZ BEVEL
Ø150
5800
22TE 1/4"
24
RUBBER
2-75 LBS/Y
PIN BUS

F

AC

MATERIAL	
BY	
NAME	
S.Duffa	5

DRG. No.

SHEET	OF
-------	----



1676 GAUGE

114.58 BARREL LENGTH

2070

2070

WAGON / FREIGHT CAR

BCNAHS

BCNA



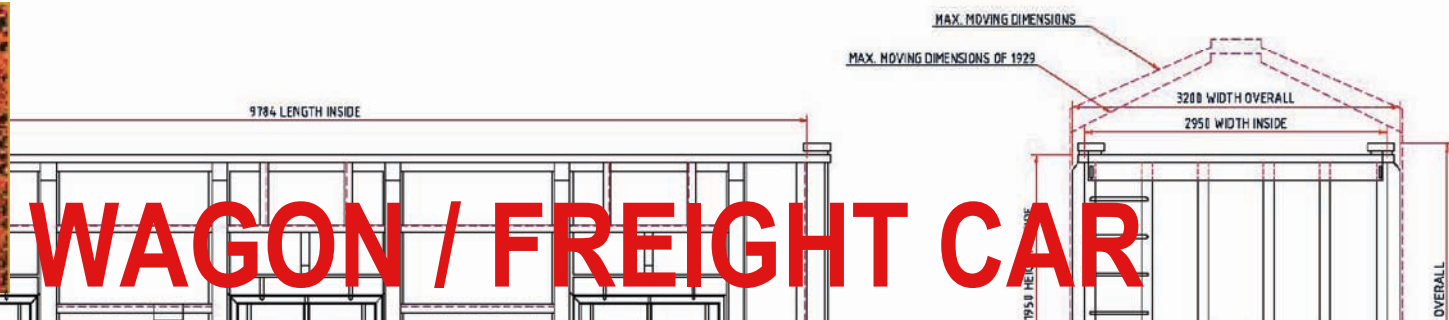
4265 TDP OF DOME

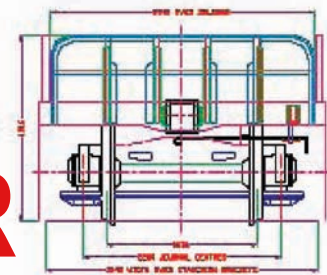
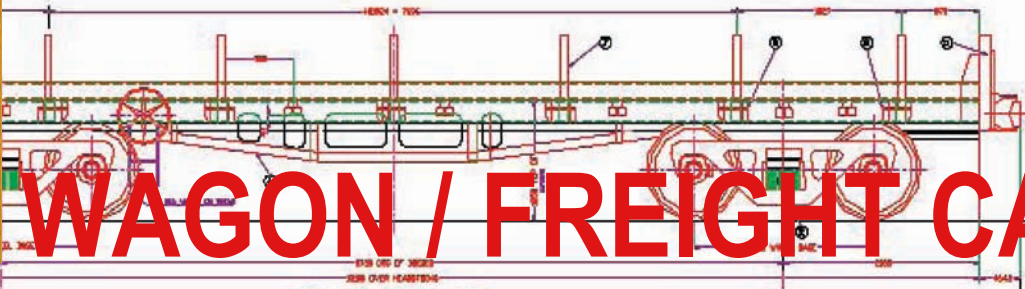
D.



WAGON / FREIGHT CAR

BOBSN

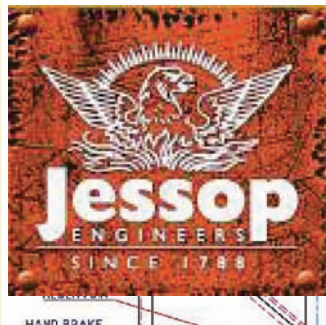




WAGON / FREIGHT CAR

BRNAHS





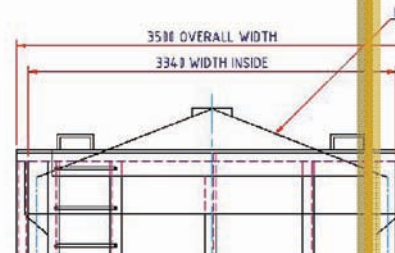
WAGON / FREIGHT CAR

BVZI



13 TOTAL PAY LOAD PER RAKE

3163 t



TD
RAPID
PER



WAGON / FREIGHT CAR



BLC



WAGON / FREIGHT CAR

BOSTHS/BOXNHS





1676 GAUGE

11458 BARREL LENGTH

2070

2070

WAGON / FREIGHT CAR

BOBRNHS



81

F.O

0.8254

54.28

TYPE 'BTPN'



WAGON / FREIGHT CAR

(Under Manufacture)

SECTION	LOAD & SPEED	MOTOR
MAIN HOIST	8 TONS @ 3.5 FT./ MIN. 15 FALLS	48 HP @ 730 R.P.M.
AUX. HOIST	9 TONS @ 3.5 FT./ MIN. SINGLE FALL	48 HP @ 730 R.P.M.
DERIVATIVE	ALL LOADS @ 3.9 FT./MIN. 8 FALLS	32 HP @ 730 R.P.M.

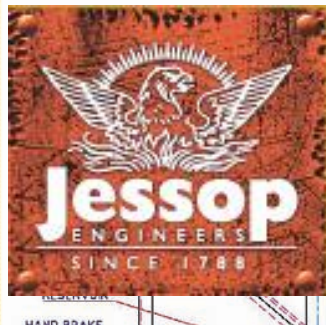


BOXNHL



WAGON / FREIGHT CAR (Under Manufacture)

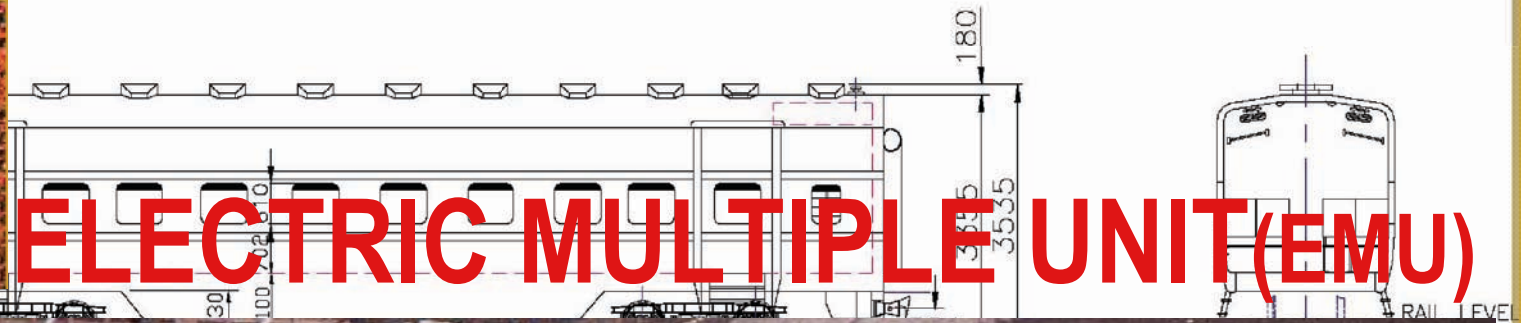




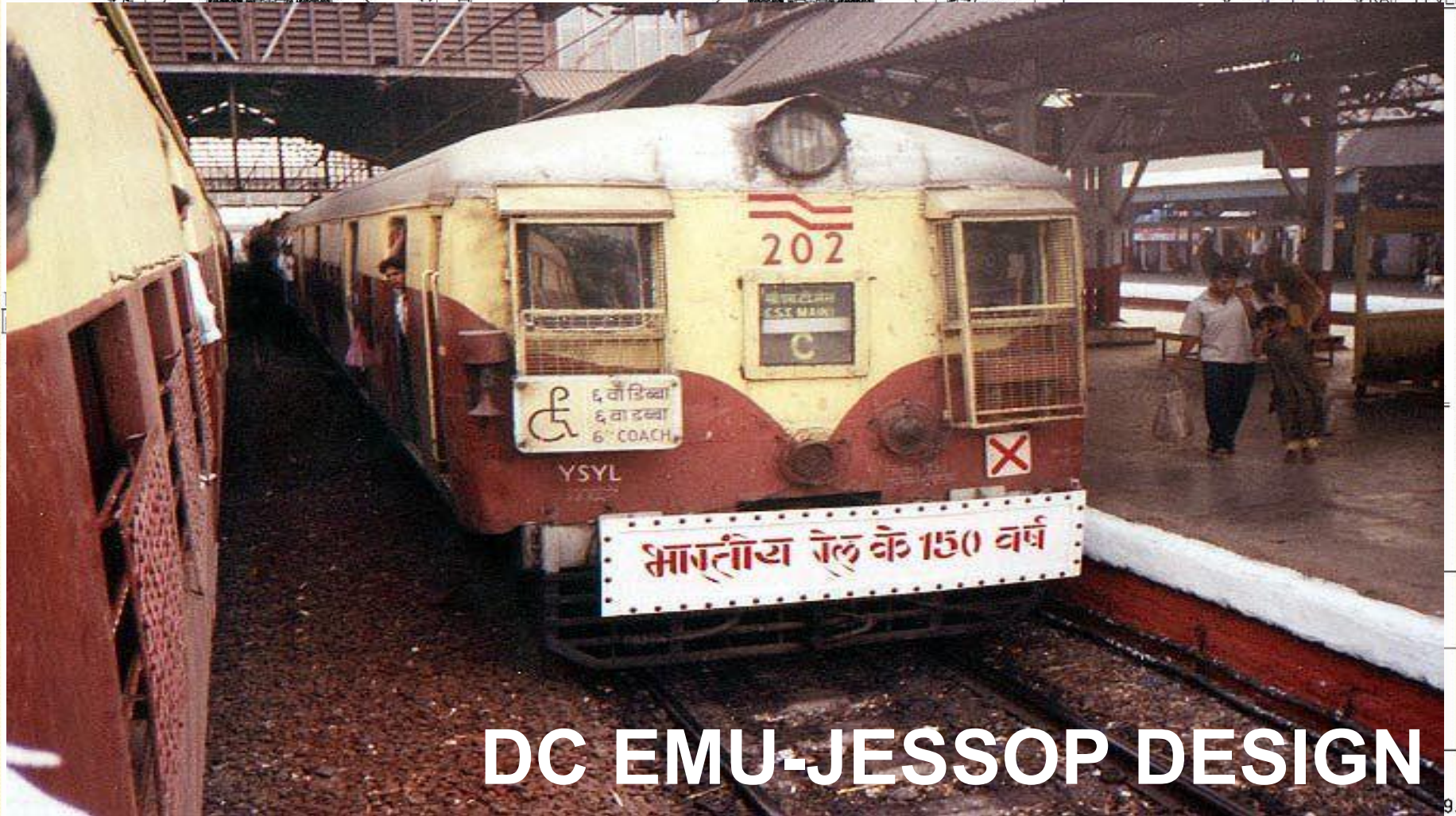
WAGON / FREIGHT CAR (Future Exploration)



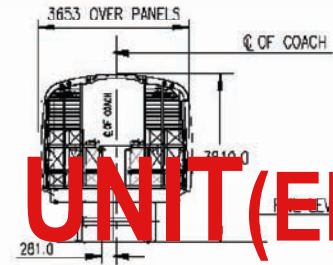
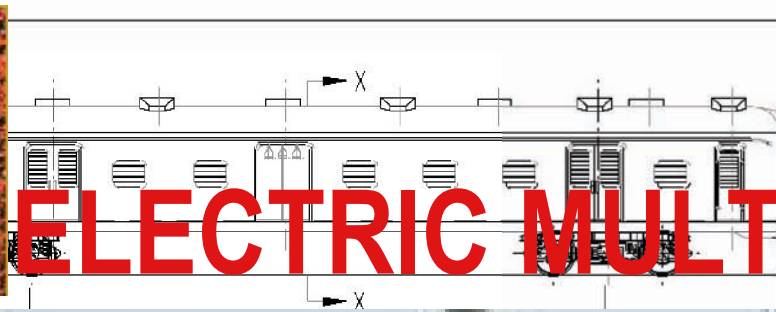
BTAP



ELECTRIC MULTIPLE UNIT (EMU)



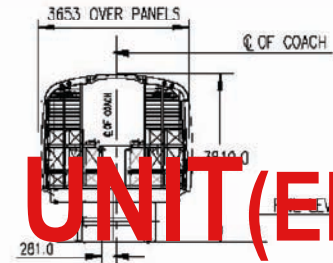
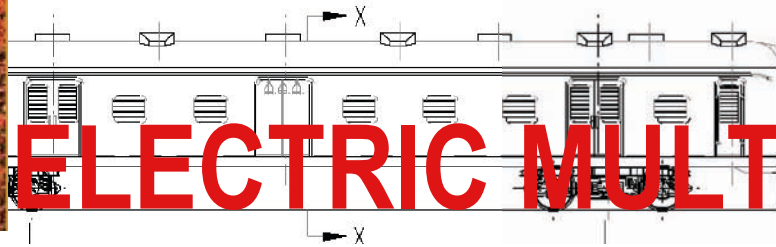
DC EMU-JESSOP DESIGN



ELECTRIC MULTIPLE UNIT (EMU)



AC EMU-JESSOP DESIGN



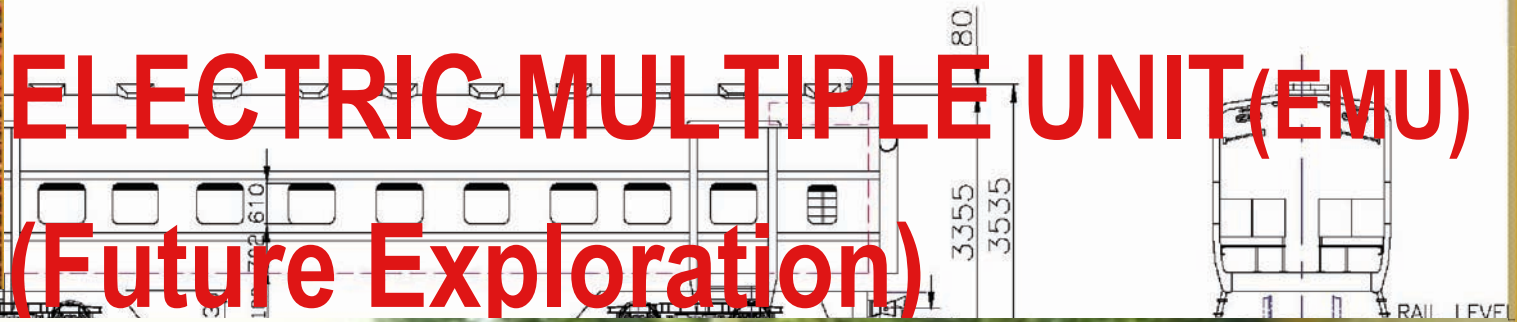
ELECTRIC MULTIPLE UNIT (EMU)



AC EMU- ICF DESIGN



ELECTRIC MULTIPLE UNIT(EMU) (Future Exploration)

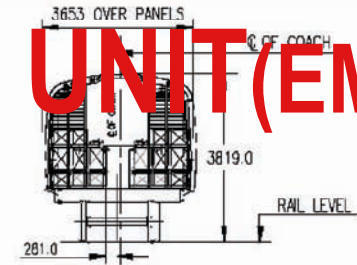


Mainline EMU(MEMU)



2896

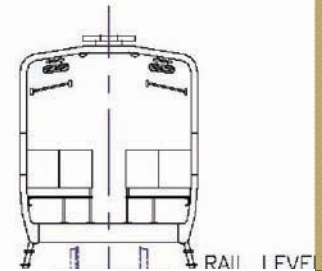
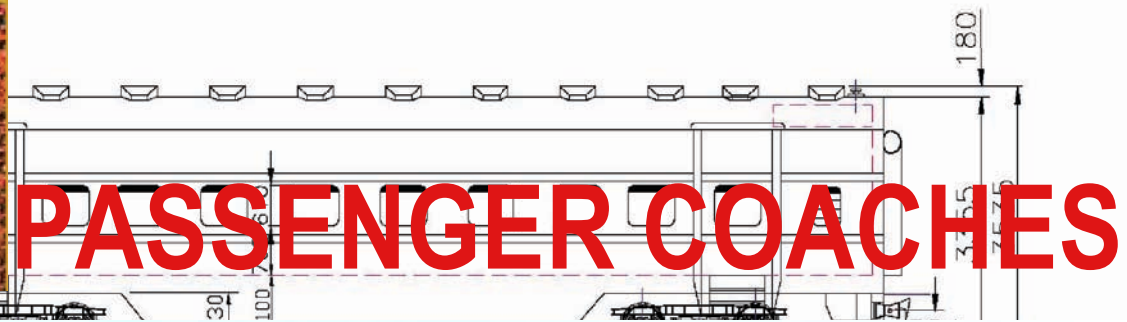
ELECTRIC MULTIPLE UNIT (EMU) (Future Exploration)



SECTION-X

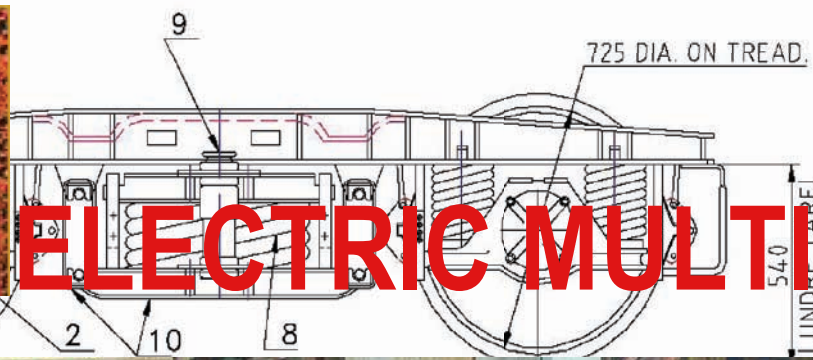


Diesel EMU(DEMU)



M.G. G.S. Type Coach





ELECTRIC MULTIPLE UNIT(EMU)



FABRICATED EMU BOGIE



STRUCTURES

LOCOMOTIVE SHELL

MOTION	LOAD & SPEED	MOTOR
MAIN HOIST	85 TONS @ 5.33 FT./ MIN. 15 FALLS	48 HP @ 730 R.P.M.
AUX. HOIST	9 TONS @ 3.5 FT./ MIN. SINGLE FALL	48 HP @ 730 R.P.M.
DERRICK	A.L. LOADS @ 3.9 FT./MIN. 8 FALLS	32 HP @ 730 R.P.M.



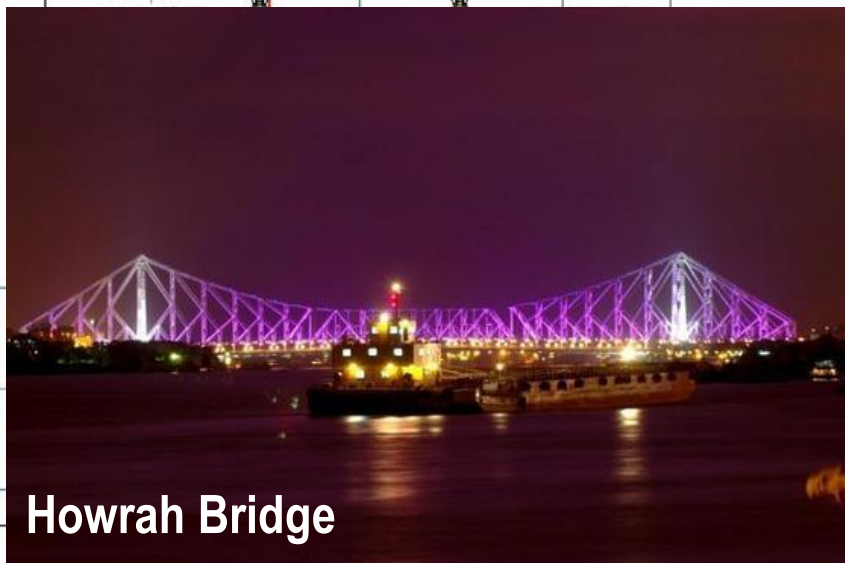
ELECTRIC LOCO SHELL-WAG 9



STRUCTURES GIRDERS / STEEL BRIDGES.



Girders-Park Street Flyover, Kolkata



Howrah Bridge



Vidyasagar Setu



CLEARANCE DRAWING

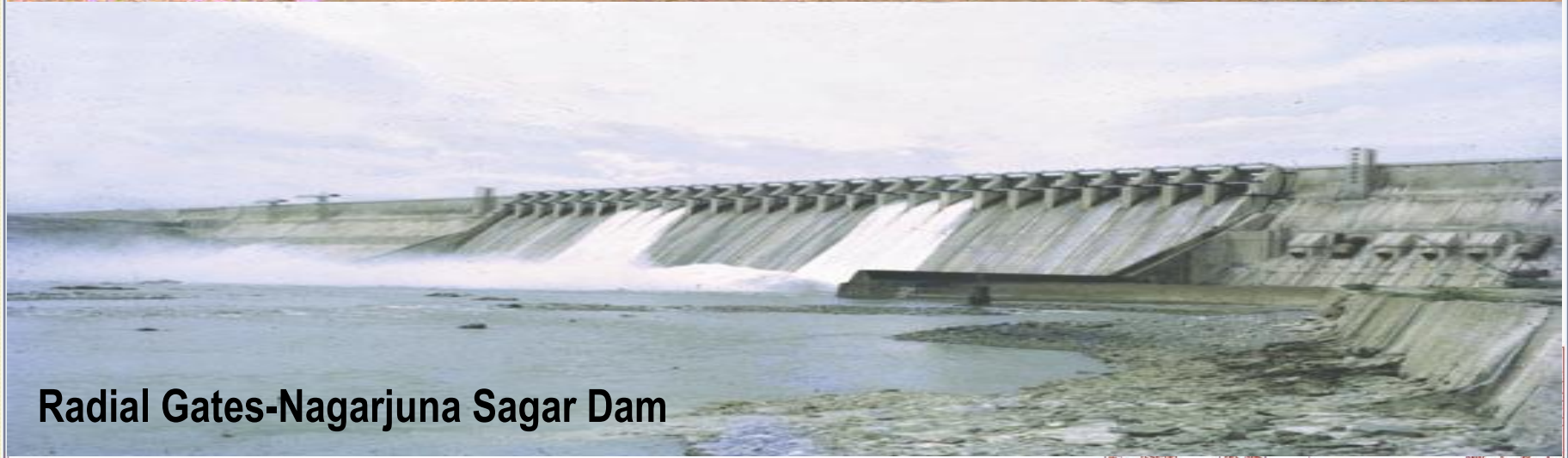
SHEET 1 OF 1



STRUCTURES HYDRO-MECHANICAL EQPT.



Caisson Gate, Haldia Dock



Radial Gates-Nagarjuna Sagar Dam

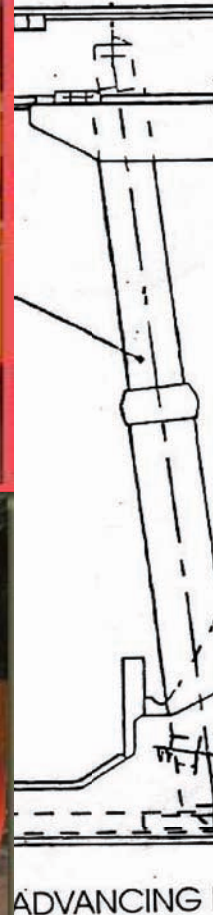


ROAD CONSTRUCTION / MINING

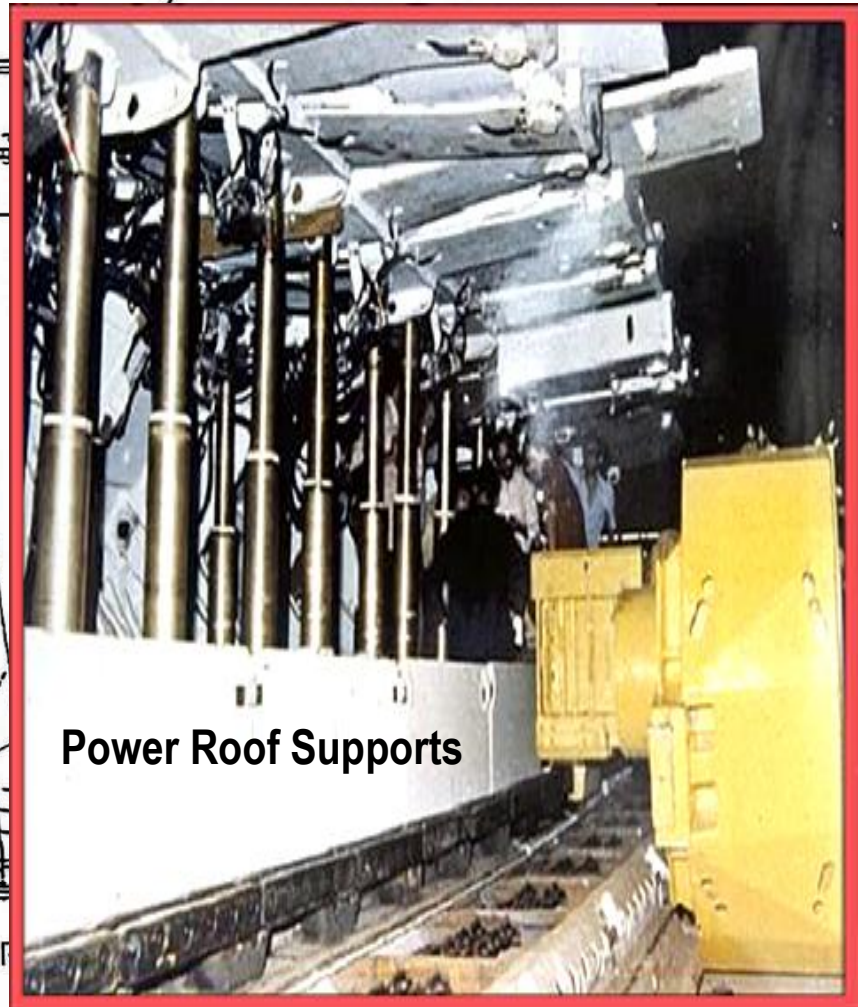
Vibratory Compactor



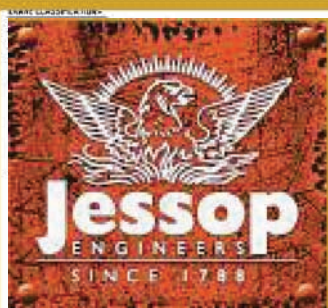
Road Rollers



ADVANCING T

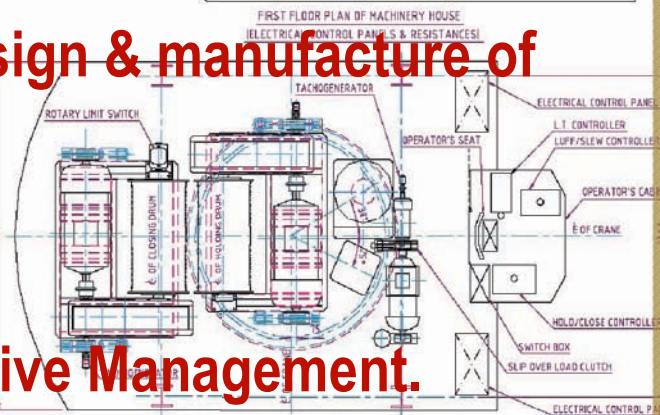
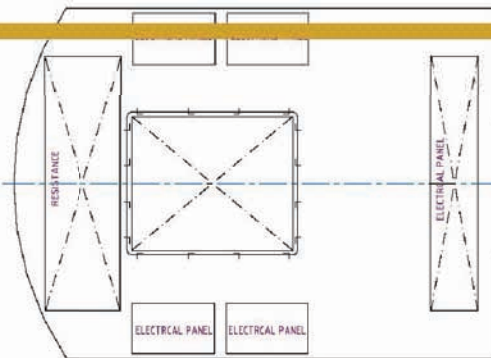
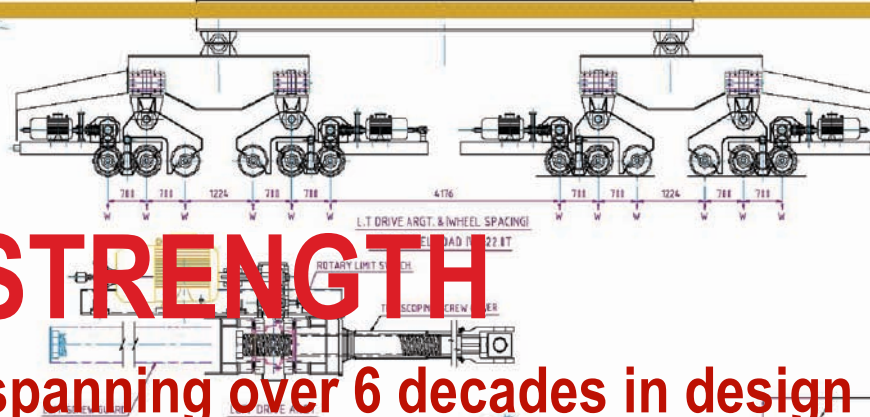


Power Roof Supports



STRENGTH

- Experience spanning over 6 decades in design & manufacture of Capital Goods.
- Adequate skilled manpower.
- Professional , Highly Experienced & Proactive Management.
- Fully Conversant with Indian Statutory Norms.
- Ability to be Price-competitive.
- ISO 9001 & 14001 compliant.



HOLD /CLOSE		SLEW		LUFF		L.T	
NO. OF DRIVE	2	NO. OF DRIVE	1	NO. OF DRIVE	1	NO. OF DRIVE	1
CAPACITY(EACH DRIVE)	8.25TE	CAPACITY	15 TE AT 31M RAD	CAPACITY	15 TE AT 32M RAD	CAPACITY	15 TE AT 32M RAD
SPEED	61M/MIN	R.P.M.	1	SPEED	35M/MIN	SPEED	15M/MIN
TOTAL RPM	37.785	TOTAL REON	953.3	TOTAL REON	8.53	TOTAL REON	76.4
REDN. GEAR BOX	64:1	REDN. GEAR BOX	VERTICAL DOUBLE WORM	REDN. GEAR BOX	VERTICAL HELICAL	REDN. GEAR BOX	HORZ BIVEL
THRUSTER BRAKE	#211	THRUSTER BRAKE	#211	THRUSTER BRAKE	#388	THRUSTER BRAKE	#150
SLEW BEARINGS	2X2	HYDRAULIC BRAKE	4751			WHEEL SIZE	5800
NO. OF FALLS	824					WHEEL LOAD	22 TE
DRUM P.C.D.	524					NO. OF WHEELS	24
PULLEY P.C.D.	524					BUFFER	RUBBER
						RAIL SIZE	2-75 LBS/FT
							PN 0515
INPUT COUPLG. - SINGLE ENGAGEMENT GEAR		INPUT COUPLG. - CLUTCH WITH FLEXIBLE CPG		INPUT COUPLG. - SINGLE ENGAGEMENT GEAR		INPUT COUPLG. -	
FRAME SIZE	2-800L		231MS		2015H		8 NOS. 18BLR
MECH KW	56		25		26.5		8 X 5
FRAME KW	168		35		41		7.8
SYN. RPM	1811		1811		751		751
MIN P.D. TORQUE	275% OF FLT		275% OF FLT		275% OF FLT		275% OF FLT
CLASS OF INSULATION	F		F		F		F
POWER SUPPLY - 415V, 3 PH, 50°, AC		CONTROL SUPPLY - 220V, 1 PH, 50°, AC		LIGHTING SUPPLY - 220V, 1 PH, 50°, AC			

NOTE -
 (1) LUFF DRIVE WITH SCREW AND NUT SYSTEM.
 (2) TYPE OF GRAB -
 (a) 4 ROPE OPERATED GRAB OF CAPACITY 5.8 CEM.
 TO HANDLE MATERIAL UP TO MAX. DENSITY 27 CPM.
 (b) 4 ROPE OPERATED GRAB OF CAPACITY 8.8 CEM.
 TO HANDLE MATERIAL UP TO MAX. DENSITY 27 CPM.

IN TENDER NO. - 07E/20/20/05/06/06/06
 AT AMBIENT TEMPERATURE 45°C
 ALL MOTORS ARE SUITABLE FOR SL-318 5/8" BORE PROTECTION CLASS IP55
 ALL MOTORS WILL HAVE THROUSTOR PANEL RAYING STEPPED SPEED CONTROL BY MASTER CONTROLLER.

CONTRACT	3 NOS. 15T X 32M RAD. E.L.L.	WEIGHT		MATERIAL	
ASSIGNED ORGNO.	TYPE/NO.	GROUP/ORDER NO.		SUPPLIED BY	
				NAME	
				DESIGN	
				APPROVED	
				DRG. NO.	

THANK YOU