

A.K.SEN	P.K.DHAR		
DRAWN	CHECKED	SSE/D	AEE/D-III

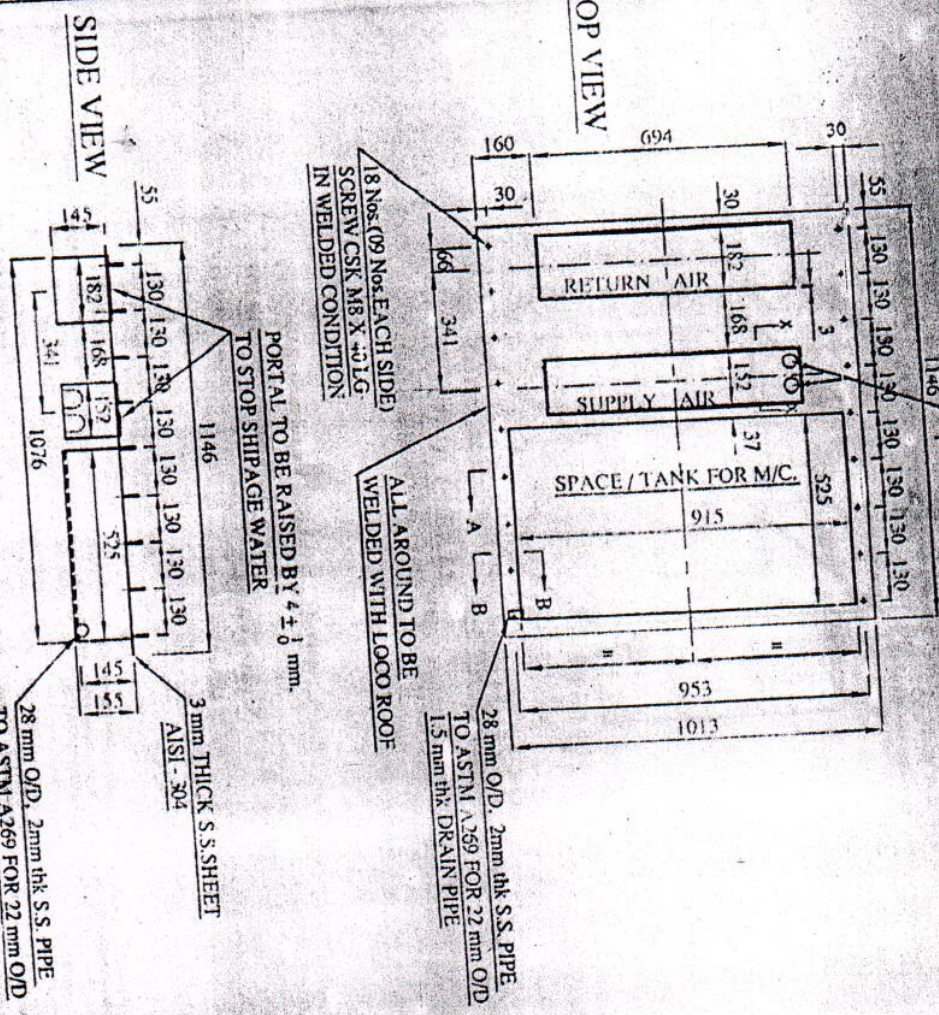
REF.:- RDSOS SPEC. NO.
RDSO/2007/ELSPEC/005 (REV. '1')

D.C.E/D-11

CHITTARANJAN LOCOMOTIVE WORKS
WEST BENGAL, INDIA
DRG. No. CLW/ES/SK-2/A-15/A
Date: 17.10.2014

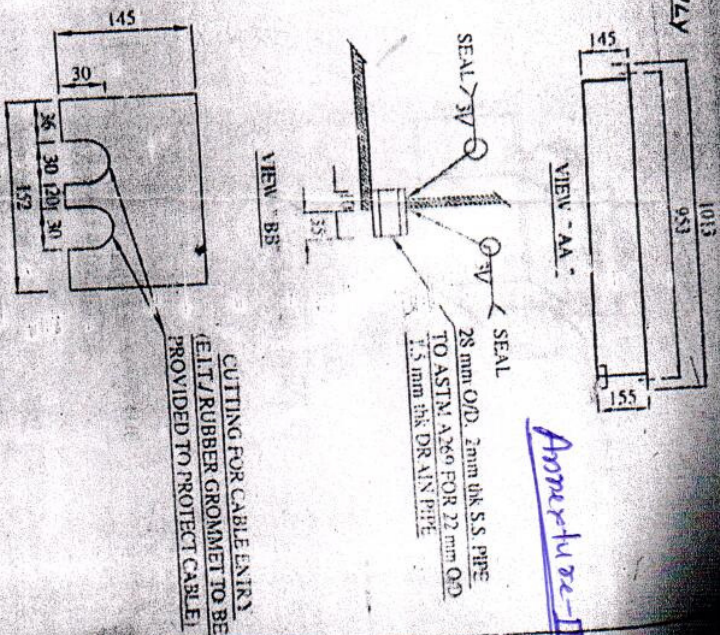
TROUGH FOR A.C. UNIT
(OPTIONAL)

CLW



LOCATION FOR POWER AND CONTROL COUPLERS INDICATIVE PURPOSE ONLY

(A)



NOTE:-

1. ALL DIMENSIONS ARE IN mm. EXCEPT SEPARATELY INDICATED
2. TOLERANCE: FIXING HOLE CENTRES + 0.5 mm
3. OTHER DIMENSIONS + 1mm
3. 18 NOS M8 X 40 LG CSK SCREW TO BE USED FOR FIXING AC UNIT WITH TROUGH
4. TROUGH WILL BE MADE OF 3MM THICK S.S. SHEET TO AISI 304

Approved by

Architectural drawing of a building facade and interior layout. The drawing includes a large elevation of the facade with dimensions and a detailed interior layout showing rooms and furniture. A table of dimensions is located at the bottom left.

Table of Dimensions:

Item	Value	Unit
1	1000	mm
2	1000	mm
3	1000	mm
4	1000	mm
5	1000	mm
6	1000	mm
7	1000	mm
8	1000	mm
9	1000	mm
10	1000	mm
11	1000	mm
12	1000	mm
13	1000	mm
14	1000	mm
15	1000	mm
16	1000	mm
17	1000	mm
18	1000	mm
19	1000	mm
20	1000	mm
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22	1000	mm
23	1000	mm
24	1000	mm
25	1000	mm
26	1000	mm
27	1000	mm
28	1000	mm
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30	1000	mm
31	1000	mm
32	1000	mm
33	1000	mm
34	1000	mm
35	1000	mm
36	1000	mm
37	1000	mm
38	1000	mm
39	1000	mm
40	1000	mm
41	1000	mm
42	1000	mm
43	1000	mm
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85	1000	mm
86	1000	mm
87	1000	mm
88	1000	mm
89	1000	mm
90	1000	mm
91	1000	mm
92	1000	mm
93	1000	mm
94	1000	mm
95	1000	mm
96	1000	mm
97	1000	mm
98	1000	mm
99	1000	mm
100	1000	mm

Appendix V
PROPOSED C&D FOR ELECTRICAL ITEMS REQUIRED FOR COMMISSIONING OF CAB AC FOR 3 PHASE LOCO.

SL NO	ITEM DESCRIPTION	SPECN/DRG NO.	ID NO	QTY/LO CO	CATEGORY NO	LOCATION	PROPOSED C&D	
							G-9/P-7	WAP
1.	Cab Air conditioning System	RDSO/2007/EL/SPEC/O 055 REV. '1'	298110280114H	01 No	P/0/0217	Roof of Cab 1	T016/566	B016/
2.	Cab Air conditioning System	RDSO/2007/EL/SPEC/O 055 REV. '1'	298110280114H	01 No	P/0/0217	Roof of Cab 2	T016/567	B016/
3.	AC Ckt Breaker 6 Amp, 3 Pole revised (Type-18)	CLW/ES/3/0096/G	HBTB 585552 R3013	01 No	N/1/0093	HB2	T023/184	B023/
4.	Contact for AC-80A (Type-3)	CLW/ES/3/0095/C	HBTB 585683 R2927	01 No	N/0/0014	HB2	T023/177	B023/
5.	Socket 4P/24 Pin "N"	CLW/ES/3/0124/N	3EHW 470071 P0001	02 Nos	N/89/0030	HB2	T023/217	B023/
6.	Faston Lug 6.3x0.8 CU/SN	CLW/ES/3/0643/B	GMN485104P0155	04 Nos	P/3/0204	HB2	T023/525	B023/
7.	Jointing Sleeve 6.3x0.8	CLW/ES/3/0643/B	HZN 452972 P0002	04 Nos	P/2/0204	HB2	T023/568	B023/
8.	Cable Lug 8-2.5	CLW/ES/3/0130/K	KW 6762210 P0208	04 Nos	P/42/0036	HB2	T023/645	B023/
9.	Shrink down Sleeves 6.4x0.28	CLW/ES/3/0154/Q	F415788 P0106	01 Mtr	N/1/0113	HB2	T023/646	B023/
10.	Shrink down Sleeves DTMS 3/16	CLW/ES/3/0154/Q	HBT 416007 P0003	17 Nos	N/23/0113	HB2	T023/647	B023/
11.	Snubber Circuit	CLW/ES/3/0067/A	3EHW 470024 R0005	01 No	N/0/0096	HB2	T023/648	B023/
12.	Rubber Grommet	CLW.4P.2009.67/I, Sht.2	CLW.4P.2009.67/M, SHT: 2, IS: 638, TYPE-B	04 Nos	NEW	HB2	T023/649	B023/
13.	Rubber U Shaped for Cable protection	CLW/AC/1007.14/F	CLW/AC/1007.14/F, IS: 638, TYPE-B	0.5 Mtr	NEW	HB2	T023/650	B023/
14.	End Stop	CLW/ES/3/0644/AE	Wago type No.249-117	04 Nos	P/01/0205a	HB2	T023/651	B023/
15.	Distant Bolt M4x60	CLW/ES/3/0184	3EHP 431365 P0001	12 Nos	L/9/0018	HB2	T023/652	B023/
16.	Cable sleeve 2.5-10	CLW/ES/3/0205/E	NB 485270 P0029	24 Nos	P/20/0151	HB2	T023/261	B023/
17.	Hex Hd Screw M6x16 SST	CLW/MS/3/040/Alt-11	3EHP 41600 P0616	03 Nos	M/9/0002B	HB2	T023/288	B023/
18.	NUT M6x0.8 SST	CLW/MS/3/040/Alt-11	NB 332600 P0511	03 Nos	M/9/0002B	HB2	T023/653	B023/
19.	Conical spring Washer	CLW/ES/3/0187	3EHW 470066 P1060	06 Nos	L/9/0021	HB2	T023/654	B023/
20.	Plain washer M6.5x9	CLW/ES/3/0187, Alt-M		05 Nos	L/9/0021	HB2	T023/655	B023/
21.	CRPH Screw M 4x12	CLW/MS/3/040	NB 315284 P0312	08 Nos	M/9/0002B	HB2	T023/656	B023/

③ - Lamp Drivers cables
lighting.

CLW/ES-3/0001 298104C101144 02 P/0/0031 Roof of cab
Roof of cab 2

PROPOSED C&D FOR ELECTRICAL ITEMS REQUIRED FOR COMMISSIONING OF CAB AC FOR 3 PHASE LOCO.

SL NO	ITEM DESCRIPTION	SPECN/DRG NO.	ID NO	QTY/LO CO	CATEGORY NO	LOCATION	PROPOSED C&D	
							G-9/P-7	WAP
1.	Cab Air conditioning System	RDSO/2007/EL/SPEC/O 055 REV. '1'	298110280114H	01 No	P/0/0217	Roof of Cab 1	T016/566	B016/
2.	Cab Air conditioning System	RDSO/2007/EL/SPEC/O 055 REV. '1'	298110280114H	01 No	P/0/0217	Roof of Cab 2	T016/567	B016/
3.	AC Ckt Breaker 6 Amp, 3 Pole revised (Type-18)	CLW/ES/3/0096/G	HBTB 585552 R3013	01 No	N/1/0093	HB2	T023/184	B023/
4.	Contactor for AC-80A (Type-3)	CLW/ES/3/0095/C	HBTB 585683 R2927	01 No	N/0/0014	HB2	T023/177	B023/
5.	Socket 4P/24 Pin "N"	CLW/ES/3/0124/N	3EHW 470071 P0001	02 Nos	N/89/0030	HB2	T023/217	B023/
6.	Faston Lug 6.3x0.8 CU/5N	CLW/ES/3/0643/B	GMN485104P0155	04 Nos	P/3/0204	HB2	T023/525	B023/
7.	Jointing Sleeve 6.3x0.8	CLW/ES/3/0643/B	HZN 452972 P0002	04 Nos	P/2/0204	HB2	T023/568	B023/
8.	Cable Lug 8-2.5	CLW/ES/3/0130/K	KW 6762210 P0208	04 Nos	P/42/0036	HB2	T023/645	B023/
9.	Shrink down Sleeves 6.4x0.28 PES BK	CLW/ES/3/0154/Q	F415788 P0106	01 Mtr	N/1/0113	HB2	T023/646	B023/
10.	Shrink down Sleeves DTMS 3/16	CLW/ES/3/0154/Q	HBT 416007 P0003	17 Nos	N/23/0113	HB2	T023/647	B023/
11.	Snubber Circuit	CLW/ES/3/0067/A	3EHW 470024 R0005	01 No	N/0/0096	HB2	T023/648	B023/
12.	Rubber Grommet	CLW.4P.2009.67/I, Sht.2	CLW.4P.2009.67/M, SHT. 2, IS: 638, TYPE-B	04 Nos	NEW	HB2	T023/649	B023/
13.	Rubber U Shaped for Cable protection	CLW/AC/1007.14/F	CLW/AC/1007.14/F, IS: 638, TYPE-B	0.5 Mtr	NEW	HB2	T023/650	B023/
14.	End Stop	CLW/ES/3/0644/AE	Wago type No.249-117	04 Nos	P/01/0205a	HB2	T023/651	B023/
15.	Distant Bolt M4x60	CLW/ES/3/0184	3EHP 431365 P0001	12 Nos	L/9/0018	HB2	T023/652	B023/
16.	Cable sleeve 2.5-10	CLW/ES/3/0205/E	NB 485270 P0029	24 Nos	P/20/0151	HB2	T023/261	B023/
17.	Hex Hd Screw M6x16 SST	CLW/MS/3/040/Alt-11	3EHP 41600 P0616	03 Nos	M/9/0002B	HB2	T023/288	B023/
18.	NUT M6x0.8 SST	CLW/MS/3/040/Alt-11	NB 332600 P0511	03 Nos	M/9/0002B	HB2	T023/653	B023/
19.	Conical spring Washer 6.4x14 SST	CLW/ES/3/0187	3EHW 470066 P1060	06 Nos	L/9/0021	HB2	T023/654	B023/
20.	Plain washer M6.5x9	CLW/ES/3/0187, Alt-M	-	05 Nos	L/9/0021	HB2	T023/655	B023/
21.	CRPH Screw M 4x12	CLW/MS/3/040	NB 315284 P0312	08 Nos	M/9/0002B	HB2	T023/656	B023/

③ F.L. Lamp Drivers cables Lighting.

CLW/ES-3 / detail

298104010 1144

02

P/O/0031

Roof of cab

Roof of cab

43.	Cable Tie 360X4.8 PA	CLW/ES/3/0131/D	NBT 402938P0004	4 nos	P/6/0067	Harness	T034/565	B034
44.	Plate: TMS-CM 10-50 YEL	CLW/ES/3/0154/Q	3HP 416008P0001	1 No.	N/27/0113	Harness	T034/566	B034
45.	Contact SKT Size 8 2.5MM2	CLW/ES/3/0124/N	3EHW 470117P0002	4 nos	N/1/0030	Harness	T034/567	B034
46.	Plug 4P BU "N" JRCA	CLW/ES/3/0124/N	3EHW 470071 R0001	01 No	N/84/0030	Harness	T034/568	B034
47.	Connector	CLW/ES/3/0458 C	3EHW 470015 P0025	33 Mtr	N/4/0029	Harness	T034/569	B034
48.	Cable 4 GKW Ax2.5 1800V BK	CLW/ES/3/0154/Q	HBTB416099P0017	12.5 Mtr	N/10/0115	Harness	T034/570	B034
49.	EXP INSUL TUBE 22/35 PA	CLW/ES/3/0154/Q	HBT 416007 P0003	15 Nos	N/23/0113	Harness	T034/571	B034
50.	Shrink down Sleeves DTMS 3/16	CLW/ES/3/0131/D	NBT 402938P0002	2 nos	P/4/0067	Harness	T034/572	B034
51.	Cable Tie 140X3.6 PA	CLW/ES/3/0131/D	NBT 402938P0004	2 nos	P/6/0067	Harness	T034/573	B034
52.	Cable Tie 360X4.8 PA	CLW/ES/3/0131/D	3HP 416008P0001	1 no	N/27/0113	Harness	T034/574	B034
53.	Plate: TMS-CM 10-50 YEL	CLW/ES/3/0154/Q	3EHW 470117P0002	4 nos	N/1/0030	Harness	T034/575	B034
54.	Contact SKT Size 8 2.5MM2	CLW/ES/3/0124/N						