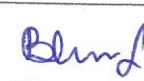
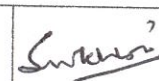


**SWITCH PLATE ASSEMBLY ALONG WITH USB MOBILE CHARGING SOCKETS FOR LHB EOG NON-AC
PANTRY CAR COACHES FOR AMRIT BHARAT RAKE**

This document is prepared to EDML-237, Rev-Nil, for Switch plate assembly with Type -A & C USB mobile charging socket for provision on either side of each cabin in LHB Non-AC Pantry Car Coaches For Amrit Bharat Rake.

Item no.	Description	Qty.	Marking on switches	Ref. Drg. No.
1.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 4 nos. ON-OFF switches and 2 nos. Type -A & C USB mobile charging socket.	1 set.	CS, F,F,CS	Drg.no.CC74258 Alt-'b', Item-1 (1 set comprising 3 switch plates)
2	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 4 nos. ON-OFF switches and 2 nos. Type -A & C USB mobile charging socket.	1 set.	CS,L,NL,CS	Drg.no.CC74258 Alt-'b', Item-1 (1 set comprising 3 switch plates)
3.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 2 nos. ON-OFF switches.	1 set.	F,L	Drg.no.LW74202 Alt-'f', Item-1 (1 set comprising 3 switch plates)
4.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. ON-OFF switches and 1 no. Type -A & C USB mobile charging socket.	1 set.	CS	Drg.no.CC74259 Alt-'b', Item-2 (1 set comprising 6 switch plates)
5.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. ON-OFF switches.	1 set.	F	Drg.no.LW74202 Alt-'f', Item-14 (1 set comprising 1 switch plates)
6.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 2 nos. ON-OFF switches.	1 set.	F,F	Drg.no.LW74202 Alt-'f', Item-1 (1 set comprising 5 switch plates)
7.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 3 nos. ON-OFF switches and 1 no. 3-pin socket 6A,250V AC With 01 no. 2.0 Amp glass fuse of M/s.Ferraz Shawmut/Copper Bussman/equivalent*(with fuse holders). (for 03-Nos water purifier)	1 set.	-	Drg.no.LW74202 Alt-'f', Item-16 (1 set comprising 03 switch plates)

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8.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. 16A,250V AC ON-OFF switch and 1 no. 6/16,250V AC Socket. (for 02-Nos Fridge,01 No deep fridge/8 02-Nos Hot/Cold under storage)	1 set.	-	Drg.no.LH75208 Alt-'Nil',,Item-3 (1 set comprising 05 switch plates
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* Equivalent with the approval from the office of CEDE/RCF.

Packing conditions of switch plates shall be as follows:

- Stage 1: Standard packing of switch plates mentioned above as per packing conditions document no. PI042.
- Stage 2: Packing per coach set as per packing conditions document no. PI021. Each packing shall be legibly marked for the Type of coach applicable for.
- Stage 3: Bulk packing coach wise as per packing conditions document no. PI032. Each packing shall be legibly marked for the Type of coach/coaches applicable for.

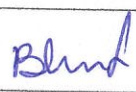
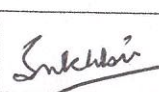
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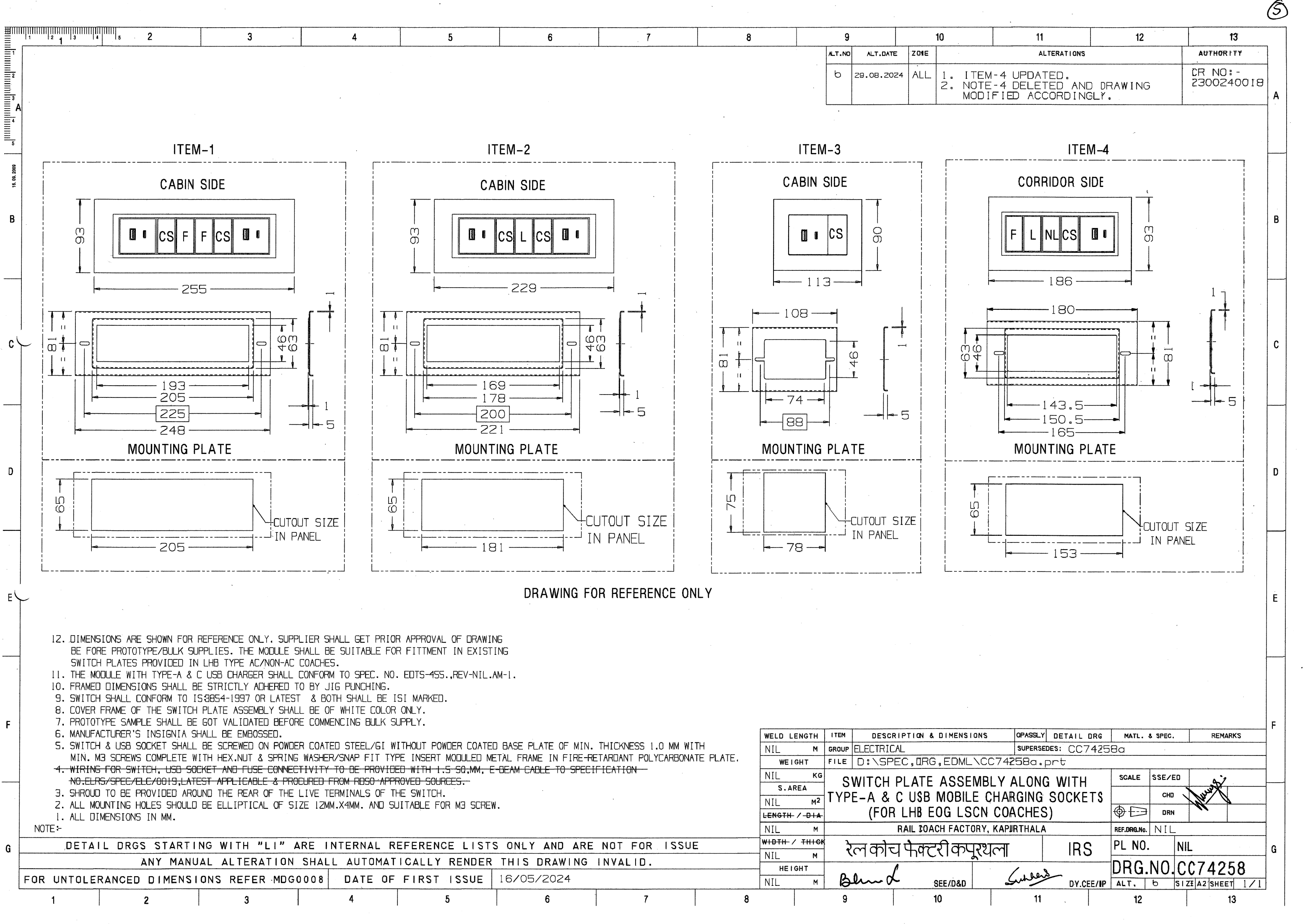
- Firm shall get prototype sample approved from CEDE/RCF before commencing bulk supply.
- Switches shall be conforming to IS: 3854-1997 and both shall be 'ISI' marked.
- Wiring for switch, socket to be provided with 1.5 sq.mm E-Beam cable to specification no. ELRS/SPEC/ELC/0019, latest applicable & procured from RDSO approved sources.
- For Contact opening in Switch, Normal Gap Construction shall be followed as per Clause No. 7.1.2 of IS: 3854-1997.
- Switch shall be of unenclosed Type as per Clause No. 7.1.3 of IS: 3854-1997.
- Switch shall conform to Degree of Protection: IPX0 as per Clause No. 7.1.4 of IS: 3854-1997.
- Method of Activation of Switch shall be of Rocker Type as per Clause No. 7.1.5 of IS: 3854-1997.
- Switch shall be Flush Type as per Clause No. 7.1.6 of IS: 3854-1997.
- Switch shall be installed as per Design A mentioned in the Clause No. 7.1.7 of IS: 3854-1997.
- Switch and Socket shall be screwed Type on powder coated steel/GI without powder coated base plate of minimum thickness 1.0 mm with M3 screws with nut and spring washer/ Snap fit modular Type with insert moulded metal frame in fire retardant polycarbonate plate.
- The Module With Type-A & C USB Charger Shall Conform To Spec. No. Edts-455.,Rev-Nil.
- Dimensions Are Shown For Reference Only. Supplier Shall Get Prior Approval Of Drawing Before Prototype/Bulk Supplies. The Module Shall Be Suitable For Fitment In Existing Switch Plates Provided In LHB Type AC/Non-AC Coaches.

Tests :

Following test shall be conducted from Govt. / NABL accredited lab:-

- Test for Polymer identification of FR polycarbonate material.
- Fire retardant test to grade UL-94 V0 from the OEM of the raw material.

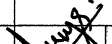
EDML-237	Nil	06.09.2024				2 of 2
Document No.	Rev.	Date	SSE/CAD	SEE/D&D	DY.CEE/D&D	Page no.



12. DIMENSIONS ARE SHOWN FOR REFERENCE ONLY. SUPPLIER SHALL GET PRIOR APPROVAL OF DRAWING BE FORE PROTOTYPE/BULK SUPPLIES. THE MODULE SHALL BE SUITABLE FOR FITMENT IN EXISTING SWITCH PLATES PROVIDED IN LHB TYPE AC/NON-AC COACHES.
11. THE MODULE WITH TYPE-A & C USB CHARGER SHALL CONFORM TO SPEC. NO. EDTS-455.,REV-NIL.AM-1.
10. FRAMED DIMENSIONS SHALL BE STRICTLY ADHERED TO BY JIG PUNCHING.
9. SWITCH SHALL CONFORM TO IS:854-1997 OR LATEST & BOTH SHALL BE ISI MARKED.
8. COVER FRAME OF THE SWITCH PLATE ASSEMBLY SHALL BE OF WHITE COLOR ONLY.
7. PROTOTYPE SAMPLE SHALL BE GOT VALIDATED BEFORE COMMENCING BULK SUPPLY.
6. MANUFACTURER'S INSIGNIA SHALL BE EMBOSSED.
5. SWITCH & USB SOCKET SHALL BE SCREWED ON POWDER COATED STEEL/GI WITHOUT POWDER COATED BASE PLATE OF MIN. THICKNESS 1.0 MM WITH MIN. M3 SCREWS COMPLETE WITH HEX.NUT & SPRING WASHER/SNAP FIT TYPE INSERT MODULD METAL FRAME IN FIRE-RETARDANT POLYCARBONATE PLATE.
4. WIRING FOR SWITCH, USB SOCKET AND FUSE CONNECTIVITY TO BE PROVIDED WITH 1.5 SQ.MM. E-BEAM CABLE TO SPECIFICATION NO.ELRS/SPEC/ELC/0019,LATEST APPLICABLE & PROCURED FROM RDSO APPROVED SOURCES.
3. SHROUD TO BE PROVIDED AROUND THE REAR OF THE LIVE TERMINALS OF THE SWITCH.
2. ALL MOUNTING HOLES SHOULD BE ELLIPTICAL OF SIZE 12MM.X4MM. AND SUITABLE FOR M3 SCREW.
1. ALL DIMENSIONS IN MM.

NOTE:-

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE												
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.												
FOR UNTOLERANCED DIMENSIONS REFER MDG0008				DATE OF FIRST ISSUE				16/05/2024				

WELD LENGTH		ITEM	DESCRIPTION & DIMENSIONS		QPASSLY	DETAIL DRG	MATL. & SPEC.		REMARKS				
NIL		M	GROUP	ELECTRICAL	SUPERSEDES: CC74258a								
WEIGHT		FILE	D:\SPEC,DRG,EDML\CC74258a.prt										
NIL		KG	SWITCH PLATE ASSEMBLY ALONG WITH TYPE-A & C USB MOBILE CHARGING SOCKETS (FOR LHB EOG LSCN COACHES)				SCALE	SSE/ED					
S.AREA		M2					CHD						
NIL		M2					DRN						
LENGTH / -DIA-		M					REF.DRG.No.	NIL					
NIL		M	RAIL COACH FACTORY, KAPURTHALA										
WIDTH / THICK		रेल कोच फैक्टरी कपूरथला				IRS		PL NO.		NIL			
NIL		M					DRG.NO.		CC74258				
HEIGHT		Blund				SEE/D&D		DY.CEE/IP					
NIL		M					ALT.		b	SIZE	A2	SHEET	1/1

51

1

2

3

4

5

6

7

8

9

10

11

12

13

ALT.NO

ALT.DATE

ZONE

ALTERATIONS

AUTHORITY

b

29.08.2024

ALL

1. ITEM-3 & 4 UPDATED.
2. NOTE-4 DELETED AND DRAWING
MODIFIED ACCORDINGLY.

CR NO:-
2300240018

ITEM-1

CABIN SIDE

MOUNTING PLATE

CUTOUT SIZE IN PANEL

ITEM-2

CABIN SIDE

MOUNTING PLATE

CUTOUT SIZE IN PANEL

ITEM-3

CABIN SIDE

MOUNTING PLATE

CUTOUT SIZE IN PANEL

ITEM-4

CABIN SIDE

MOUNTING PLATE

CUTOUT SIZE IN PANEL

ITEM-5

CORRIDOR SIDE

MOUNTING PLATE

CUTOUT SIZE IN PANEL

ITEM-6

GUARD & PANEL ROOM

MOUNTING PLATE

CUTOUT SIZE IN PANEL

DRAWING FOR REFERENCE ONLY

12. DIMENSIONS ARE SHOWN FOR REFERENCE ONLY. SUPPLIER SHALL GET PRIOR APPROVAL OF DRAWING BE FORE PROTOTYPE/BULK SUPPLIES. THE MODULE SHALL BE SUITABLE FOR FITTMENT IN EXISTING SWITCH PLATES PROVIDED IN LHB TYPE AC/NON-AC COACHES.

11. THE MODULE WITH TYPE-A & C USB CHARGER SHALL CONFORM TO SPEC. NO. EOTS-455.,REV-NIL.AM-1.

10. FRAMED DIMENSIONS SHALL BE STRICTLY ADHERED TO BY JIG PUNCHING.

9. SWITCH SHALL CONFORM TO IS8854-1997 OR LATEST & BOTH SHALL BE ISI MARKED.

8. COVER FRAME OF THE SWITCH PLATE ASSEMBLY SHALL BE OF WHITE COLOR ONLY.

7. PROTOTYPE SAMPLE SHALL BE GOT VALIDATED BEFORE COMMENCING BULK SUPPLY.

6. MANUFACTURER'S INSIGNIA SHALL BE EMBOSSED.

5. SWITCH & USB SOCKET SHALL BE SCREWED ON POWDER COATED STEEL/GI WITHOUT POWDER COATED BASE PLATE OF MIN. THICKNESS 1.0 MM WITH MIN. M3 SCREWS COMPLETE WITH HEX.NUT & SPRING WASHER/SNAP FIT TYPE INSERT MODULED METAL FRAME IN FIRE-RETARDANT POLYCARBONATE PLATE.

4. WIRING FOR SWITCH, USB SOCKET AND FUSE CONNECTIVITY TO BE PROVIDED WITH 1.5 SQ.MM, E-BEAM CABLE TO SPECIFICATION-NO.ELRS/SPEC/ELC/0019,LATEST APPLICABLE & PROCURED FROM RDSO APPROVED SOURCES.

3. SHROUD TO BE PROVIDED AROUND THE REAR OF THE LIVE TERMINALS OF THE SWITCH.

2. ALL MOUNTING HOLES SHOULD BE ELLIPTICAL OF SIZE 12MM.X4MM. AND SUITABLE FOR M3 SCREW.

1. ALL DIMENSIONS IN MM.

NOTE:-

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE

16/05/2024

WELD LENGTH

ITEM

DESCRIPTION & DIMENSIONS

QPASSLY

DETAIL DRG

MATL. & SPEC.

REMARKS

NIL

M

GROUP ELECTRICAL

SUPERSEDES: CC74259a

WEIGHT

FILE

D:\SPEC,DRG,EDML\CC74259a.prt

NIL

KG

S.AREA

NIL

M²

LENGTH / -D+A

NIL

M

WIDTH / THICK

NIL

M

HEIGHT

NIL

M

SWITCH PLATE ASSEMBLY ALONG WITH
TYPE-A & C USB MOBILE CHARGING SOCKETS
(FOR LHB EOG LSLRD COACHES)

SCALE

SSE/ED

CHD

DRN

REF.DRG.No.

NIL

PL NO.

NIL

DRG.NO.

CC74259

ALT.

b

SIZE

A2

SHEET

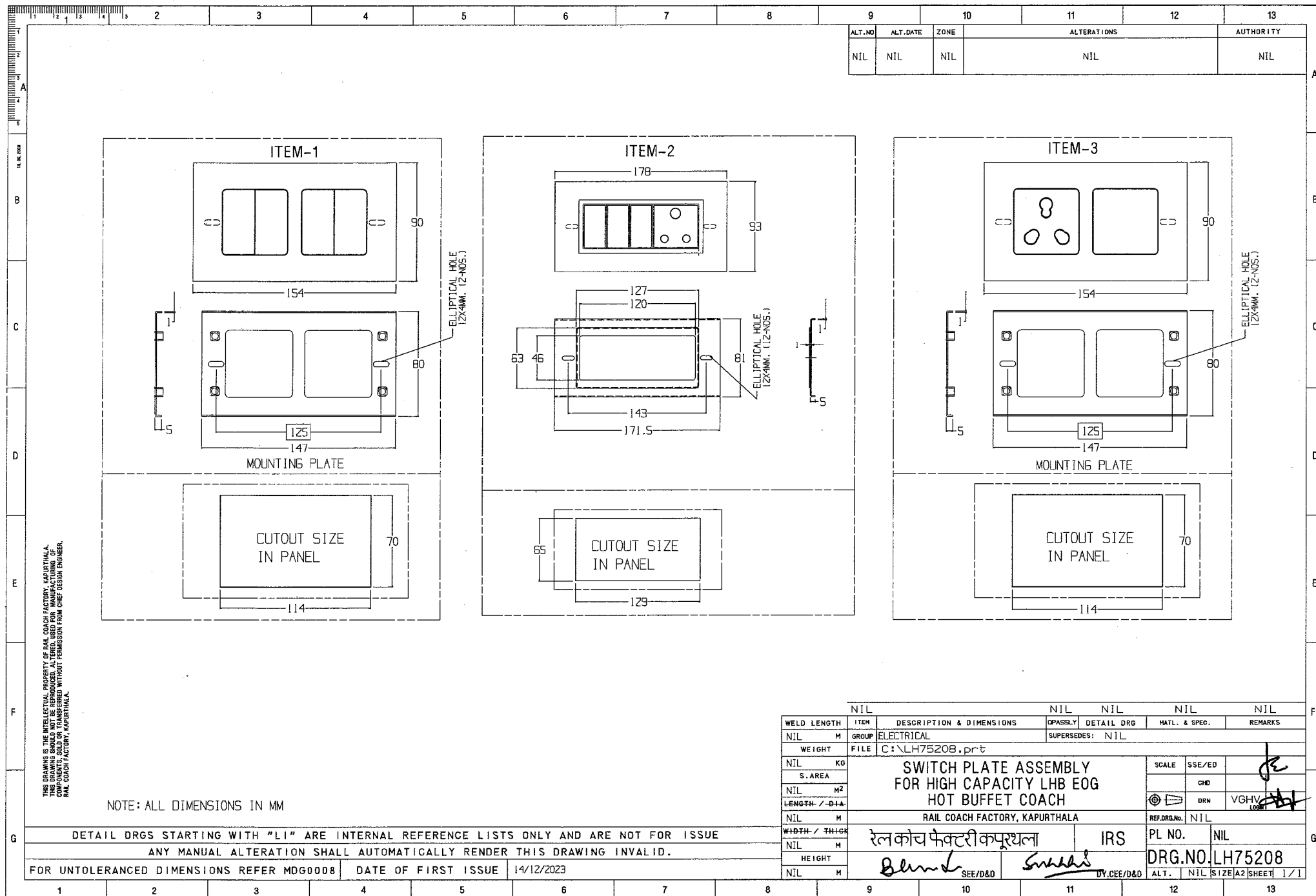
1/1

रेल कोच फेक्टरी कपूरथला

IRS

SEE/D&D

DY.CEE/DP



ANNEXURE-B (EDTS-457)

(+VE SIDE JUMPERS)
LIGHT,FAN & LIMIT SWITCH

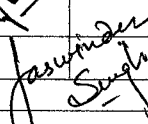
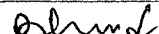
(-VE SIDE JUMPERS)
LIGHT,FAN & LIMIT SWITCH

FDB-13		CABIN-10, FDB-10 (H.NO.- 3 TO 6)
CABIN-10 FDB-10		CABIN-9, FDB-9 (H.NO.- 7 TO 11)
CABIN-9 FDB-9		CABIN-8, FDB-8 (H.NO.- 12 TO 16)
CABIN-8 FDB-8		CABIN-7, FDB-7 (H.NO.- 17 TO 21)
CABIN-7 FDB-7		CABIN-6, FDB-6 (H.NO.- 22 TO 26)
CABIN-6 FDB-6		CABIN-5, FDB-5 (H.NO.- 27 TO 31)
CABIN-5 FDB-5		CABIN-4, FDB-4 (H.NO.- 32 TO 36)
CABIN-4 FDB-4		CABIN-3, FDB-3 (H.NO.- 37 TO 41)
CABIN-3 FDB-3		CABIN-2, FDB-2 (H.NO.- 42 TO 46)
CABIN-2 FDB-2		CABIN-1, FDB-1 (H.NO.- 77 TO 51)
CABIN-1 FDB-1		DOORWAY NPP END, FDB-11 (H.NO.- 52)
L = 1750MM		

FDB-14		CABIN-10, FDB-10 (H.NO.- 55 & 56)
CABIN-10 FDB-10		CABIN-9, FDB-9 (H.NO.- 59 TO 62)
CABIN-9 FDB-9		CABIN-8, FDB-8 (H.NO.- 63 TO 66)
CABIN-8 FDB-8		CABIN-7, FDB-7 (H.NO.- 67 TO 70)
CABIN-7 FDB-7		CABIN-6, FDB-6 (H.NO.- 71 TO 74)
CABIN-6 FDB-6		CABIN-5, FDB-5 (H.NO.- 75 TO 78)
CABIN-5 FDB-5		CABIN-4, FDB-4 (H.NO.- 79 TO 82)
CABIN-4 FDB-4		CABIN-3, FDB-3 (H.NO.- 83 TO 86)
CABIN-3 FDB-3		CABIN-2, FDB-2 (H.NO.- 87 TO 90)
CABIN-2 FDB-2		CABIN-1, FDB-1 (H.NO.- 91 TO 94)
CABIN-1 FDB-1		DOORWAY NPP END, FDB-12 (H.NO.- 95)
L = 1750MM		

NOTE:- 1. ALL DIMENSIONS IN MM.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.
FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 17/07/2024

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS			QPASSLY	DETAIL DRG	MATL. & SPEC.		REMARKS				
NIL	M	GROUP	ELECTRICAL			SUPERSEDES:							
WEIGHT	FILE	\\D\elec\abhi\SKED-966.s1.prt											
NIL	KG	JUMPER & BRANCH WIRING OF ROOF FOR LSCN AMRIT BHARAT COACH					SCALE	SSE/ED					
S.AREA								CHD					
NIL	M ²							DRN					
LENGTH / DIA													
NIL	M	RAIL COACH FACTORY, KAPURTHALA					REF.DRG.No.						
WIDTH / THICK		रेल कोच फैक्टरी कपूरथला					PL NO.						
NIL	M	IRS					DRG.NO.					SKED-966	
HEIGHT					SEE/D&D							DY.CEE/DP	
NIL	M						ALT.	NIL	SIZE	A2	SHEET	1 / 2	

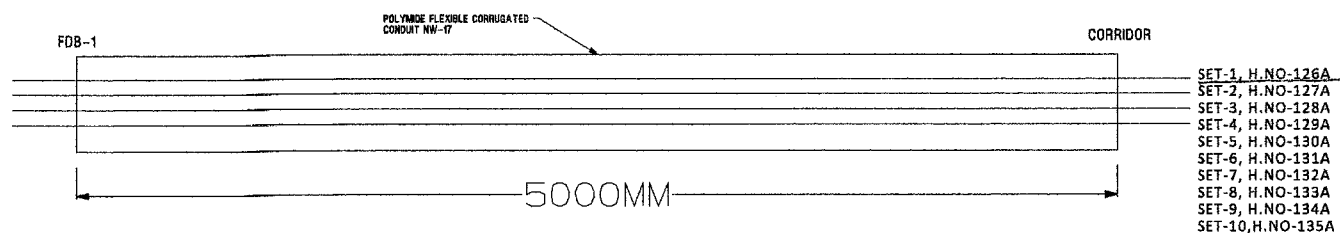
ANNEXURE-B (EDTS-457)

USB CHARGING SOCKET (PHASE & NEUTRAL SIDE JUMPERS)

CUBICLE		CABIN-10, FDB-10 (H. NO.- 116)
CABIN-10 FDB-10		CABIN-9, FDB-9 (H. NO.- 117)
CABIN-9 FDB-9		CABIN-8, FDB-8 (H. NO.- 118)
CABIN-8 FDB-8		CABIN-7, FDB-7 (H. NO.- 119)
CABIN-7 FDB-7		CABIN-6, FDB-6 (H. NO.- 120)
CABIN-6 FDB-6		CABIN-5, FDB-5 (H. NO.- 121)
CABIN-5 FDB-5		CABIN-4, FDB-4 (H. NO.- 122)
CABIN-4 FDB-4		CABIN-3, FDB-3 (H. NO.- 123)
CABIN-3 FDB-3		CABIN-2, FDB-2 (H. NO.- 124)
CABIN-2 FDB-2		CABIN-1, FDB-1 (H. NO.- 125)

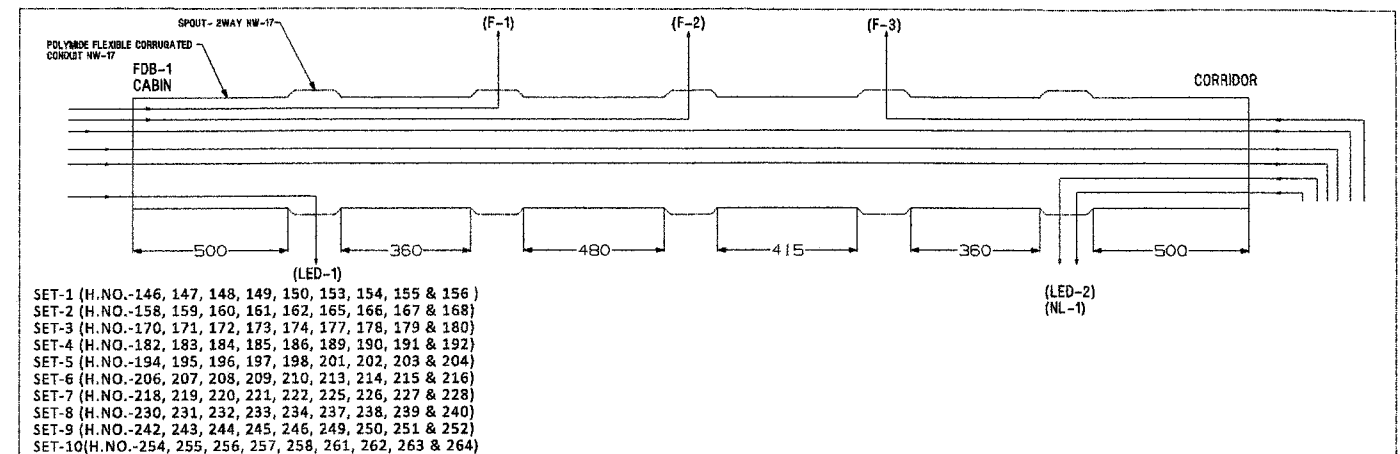
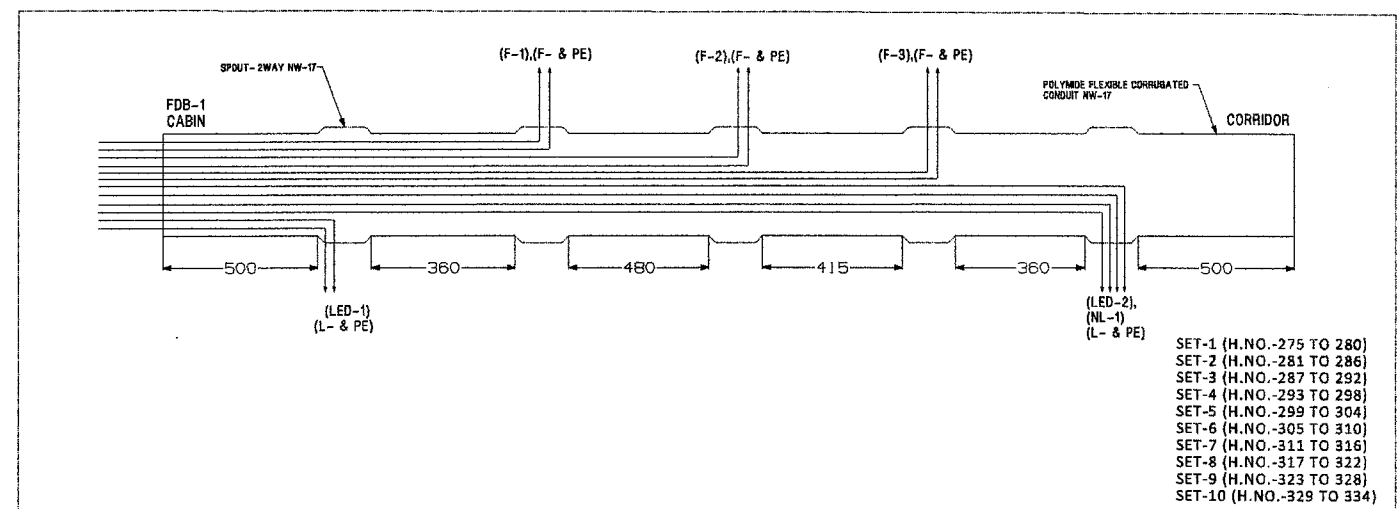
1750MM

BRANCH WIRING FOR USB CIRCUIT (110V AC)



10 SETS (CABN-1 TO CABIN-10)

BRANCH WIRING FOR LIGHT & FAN CIRCUIT (+VE)

10 SETS (CABIN-1 TO CABIN-10)
BRANCH WIRING FOR LIGHT & FAN CIRCUIT & LIMIT SWITCH (-VE)

10 SETS (CABN-1 TO CABIN-10)

3. H.NO-145, 151, 152, 157, 163, 164, 169, 175, 176, 181, 187, 188, 193, 199, 200, 205, 211, 212, 217, 223, 224, 229, 235, 236, 241, 247, 248, 253, 259 & 260 TO BE LOOSE SUPPLY WITH ROOF BRANCH.
2. Ø20 MM RIGID PVC CONDUIT SHALL BE USED IN JUMPER WIRING.
1. POLYIMIDE FLEXIBLE CORRUGATED CONDUIT NW-17 SHALL BE USED IN BRANCH WIRING.

NOTE -

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 17/07/2024

WELD LENGTH		ITEM	DESCRIPTION & DIMENSIONS		QPASSLY	DETAIL DRG	MATL. & SPEC.		REMARKS			
NIL		M	GROUP	ELECTRICAL		SUPERSEDES:						
WEIGHT		FILE	\\D\elec\abhi\SKED-966.s2.prt									
NIL		KG	JUMPER & BRANCH WIRING OF ROOF FOR LSCN AMRIT BHARAT COACH				SCALE		SSE/ED			
S.AREA							CHD					
NIL		M ²							DRN			
LENGTH / DIA												
NIL		M	RAIL COACH FACTORY, KAPURTHALA				REF.DRG.No.					
WIDTH / THICK		रेल कोच फैक्टरी कपूरथला				IRS		PL NO.				
NIL		M					DRG.NO.		SKED-966			
HEIGHT		SEE/D&D		DY.CEE/DP		ALT.		NIL	SIZE	A2	SHEET 2/2	
NIL		M										