# SWITCH PLATE ASSEMBLIES (WITH TYPE-A&C USB CHARGER AND 3-PIN CHARGING SOCKETS) FOR LHB EOG TYPE AC COACHES

TABLE-1: LHB EOG First AC Coaches

SN	Description	QPC	Marking	Reference	Remarks (Location)
1	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 01 no. Bell push, 02 nos. ON-OFF switches and 01 no. Type-A & C USB charging socket module with 01 no. 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	04	BELL L CS	Item-5 of Drg. No. LW74412	Full Coupe
0.3h	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>03 nos</b> . ON-OFF switches and <b>01 no</b> . Type-A & C USB charging socket module with <b>01 no</b> . 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	05	NL L CS	Item-4 of Drg. No. LW74412	Full Coupe & Attendant Room
3	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>02 nos.</b> ON-OFF switches 6A, 250V AC	04	L NE	item-2 of Drg. No. LW74412	Corridor Area
4	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 01 no. Bell push, 04 nos. ON-OFF switches and 01 no. Type-A & C USB charging socket module with 01 no. 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)		L NL BELL CS	Item-7 of Drg. No. LW74412	Half Coupe
5 . <b>5</b>	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>01 no.</b> ON-OFF switch and <b>01 no.</b> 3-pin socket 6A, 250V AC with <b>01 no.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	o <b>12</b> 10 o 10 dh	CS 110V	Item-6 of Drg. No. LW74412	Full Coupe & Half Coupe (Upper Berth)

# TABLE-2: LHB EOG 2-Tier AC Coaches

SN	Description	QPC	Marking	Reference	Remarks (Location)
rithei 1	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>03 nos.</b> ON-OFF switches and <b>01 no.</b> Type-A & C USB charging socket module with <b>01 no.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	09 0360 13	NL L CS	Item-4 of Drg. No. LW74412	Cabin Area
2 S	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>02 nos.</b> ON-OFF switches and <b>01 no.</b> Type-A & C USB charging socket module with <b>01 no.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	60:40 (09) (13:40) (14:43)	L" CS, Markette	Item-3 of Drg. No. LW74412	Cabin Area

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3	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>01 no.</b> ON-OFF switch and <b>01 no.</b> Type-A & C USB charging socket module with <b>01 no.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	09	CS	Item-8 of Drg. No. LW74412	Corridor Area
4	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>01 no.</b> ON-OFF switch and <b>01 no.</b> 3-pin socket 6A, 250V AC with <b>01 no.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	25	CS 110V	Item-6 of Drg. No. LW74412	Cabin & Corridor Area (Upper Berth)

# TABLE-3: LHB EOG 3-Tier AC Coaches

SN	Description	QPC	Marking	Reference	Remarks (Location)
1	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>03 nos.</b> ON-OFF switches and <b>01 no.</b> Type-A & C USB charging socket module with <b>01 no.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	79 9 09 04 Vu 4	NL L	Item-4 of Drg. No. LW74412	Cabin Area
2	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>02 nos.</b> ON-OFF switches and <b>01 no.</b> Type-A & C USB charging socket module with <b>01 no.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	09	ΛΩ CS	Item-3 of Drg. No. LW74412	Cabin Area
3 3	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>01 no.</b> ON-OFF switch and <b>01 no.</b> Type-A & C USB charging socket module with <b>01 no.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	<b>27</b>	CS CS	Item-8 of Drg. No. LW74412	Cabin & Corridor Area (Lower Berth
4.	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>01 no.</b> ON-OFF switch and <b>01 no.</b> 3-pin socket 6A, 250V AC with <b>01 no.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	27	CS 110V	Item-6 of Drg. No. LW74412	Cabin & Corridor Area (Upper Berth

SN	Description Standard to day	QPC	Marking	Reference	Remarks (Location)
1	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>04</b> nos. ON-OFF switches 6A, 250V AC	10 r	ms sarkand Lancdole L Sels Theil Lancs Internation	of Drg. No. LW74412	Cabin & Corridor Area

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2	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>03 nos.</b> ON-OFF switches 6A, 250V AC and <b>01 no.</b> Type-A & C USB charging socket module with <b>01 no.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	03	cs	Item-4 of Drg. No. LW74412	Cabin Area
3	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>01</b> no. ON-OFF 16A, 250V switch (with LED indication) and <b>01</b> no. 6/16A 3-pin socket	08		Item-11 of Drg. No. LW74412	Kitchen Area

### TABLE-5: LHB EOG Power Car Coaches

SN	Description	QPC	Marking	Reference	Remarks (Location)
1	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 02 nos. ON-OFF switch and 02 nos. Type-A & C USB charging socket module with 02 no. 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders) and 06 module Galvanized metal box, minimum 1.0 thickness of make Legrand/Indoasian/ L&T/ Schneider/ Havells.	02	CS	Item-12 of Drg. No. LW74412	02 Nos. in Guard Room & 02 Nos. in Crew Room

# TABLE-6: LHB EOG Executive AC Chair Car/ LHB EOG Second AC Chair Car

SN	Description	QPC	Marking	Reference	Remarks (Location)
1	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with <b>02 nos.</b> ON-OFF switches, <b>01 no.</b> Type-A & C USB charging socket module and <b>01 no.</b> 3-pin socket 6A, 250V AC with <b>02 nos.</b> 2.0 Amp. Glass fuse of M/s Ferraz Shawmut /Cooper Bussmann /equivalent* (with fuse holders)	18	CS 110V CS	Item-9 of Drg. No. LW74412	Between Windows

<sup>\*</sup> Equivalent with the approval from the office of CEDE/RCF.

# Note:-

- 1. Firm shall get sample approved from CEDE/RCF before commencing Bulk supply.
- 2. Switch shall be conforming to IS:3854-1997 or latest & Socket shall conform to IS:1293-2019 or latest. Both shall be 'ISI' marked.
- 3. For contact opening in switch, Normal Gap Construction shall be followed as per Clause no. 7.1.2 of IS:3854-1997.
- 4. Switch shall be of unenclosed type as per Clause no. 7.1.3 of IS:3854-1997.
- 5. Switch shall conform to Degree of Protection: IPXO as per Clause no. 7.1.4 of IS:3854-1997.
- 6. Method of activation of switch shall be of Rocker type as per Clause 7.1.5 of IS:3854-1997.
- 7. Switch shall be flush type as per Clause 7.1.6 of IS:3854-1997.
- 8. Switch shall be installed as per Design A mentioned in the Clause 7.1.7 of IS:3854-1997.

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- 9. Switch and socket shall be screwed on powder coated steel/GI without powder coated base plate of minimum thickness 1.0mm with M3 screw with nut and spring washer/snap fit modular type with insert moulded metal frame in fire retardant polycarbonate plate.
- 10. The module with Type-A & C USB charger shall conform to spec no. EDTS-455(latest revision). The USB module shall be suitable for fitment in existing switch plates provided in LHB Type coaches.
- 11. Dimensions are shown for reference only. Supplier shall get prior approval of drawings before prototype/bulk supplies.
- 12. The details of composition of contact material used in switch and socket to be provided by the firm.
- 13. Following test shall be conducted from Govt./NABL accredited lab:
  - i. Test for polymer identification of FR Polycarbonate material.
  - ii. Fire retardant test to grade UL-94 V0 form the OEM of the raw material.

# Packing condition of switch plates shall be as follows:-

- Stage 1: Standard packing of switch plates mentioned above as per packing conditions document no. P1042.
- Stage 2: Packing per coach set as per packing conditions document no. P1021. 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. P1032. Each packing shall be legibly marked for the type of coach/coaches applicable for.

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