Note-

1. Coaches should be offered in the lot of 7 to 8 Nos. (Ex. 04 Coaches in Stage-III + 02 Coaches in Stage IX + 01 to 02 Coaches in Final Testing), so that 5-6 days visit of 2 Engineers may be planned in one go accordingly.
2. Dedicated staff names of RCF for these Stages and Final activities are to be provided and to be accompanied during coach inspection activities.
3. Each Coach must be pre-inspected by RCF inspector as per RCF SIP (Self Inspection Plan) and by using these checksheets before offering the coach to RITES. Filled SIP and these checksheets of Stage-III, Stage-IX and Testing to be submitted to RITES.
4. 100% checks by RCF to be done unless otherwise specified in accordance with the check sheet mentioned below.
5. The Intensive Check specified in Part B and General Check specified in Part C to be done 100% by RCF & 25% and 5% by RITES on sample basis respectively.

Variant: **First AC**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Part A – Document Check Checksheet- Design

Check Sheet-D1

Ref. RCF Kapurthala PO No.: 02259001101961 dated 18.10.2025.
"Safety Inspection of 02 model rakes at RCF Kapurthala as per spec EDML 269 Rev 0 issued vide Letter No. ED RCF/HSQ/ED/2129 (Audit) dated 01.10.2025"

Reference -

i) RITES Audit Report No. QA/NR/ISA/RCF/FAC/01 REV 0.0 May 2025.
ii) RCF letter no. RCF/HSQ/ED/2129(Audit) dated 26.07.2025 issued with Document No. RCF/AUDIT/ISA/FAC Annexure-A, Rev.1 dated 24.07.2025.

1. Check Specification RDSO/PE/SPEC/0184 of SBC – It should be as per RDSO revised Specification. Observation **Revised specification from RDSO is still awaited**.

2. Check Document for Rating / setting of following components used in SBC (please refer RCF letter under Ref.(ii).

S. No. of Annex A	S. No. of Audit	Action Points	Inspection points	RCF observations	RITES observation
2	3,4	Compressor Motor MPCB rating 7A - 10A. Setting at 10A.	Check MPCB Rating in Design Document and record.		
3	5	Condenser Fan MPCB Rating 1.6A - 2.5A. Setting at 1.8A. Blower/ Evaporator MPCB rating - 2.5A - 4A. Setting at 2.8A Water Pump-1 MPCB Rating 1A - 1.6A. Setting at 1.1.A Water Pump-2 MPCB Rating 1A - 1.6A. Setting at 1.1A.	Check MPCB Rating in Design Document and record.		
4	6 to 10	MCB of Lighting circuits –	Check MCB Rating in Design Document and record.		
5	11	Fire Detection circuit - MCB Rating 2 Amp	Check MCB Rating in Design Document and record.		
6	12	MCB of Sanitary Control circuits –	Check MCB Rating in Design Document and record.		

3. Check line diagram, BOM and schematic diagram for corrections as Indicated in table 3.1.1 at Section 3.1 of Audit Report, to check that minor discrepancies have been corrected as reproduced below-

Sr no. of Audit	Observation on variation of rating/ nomenclature in drawings and specification	RCF observations	RITES observation (Corrected / Not Corrected)
1	As per the general Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184 Rev-01, Rev-0, Sheet 1 of 48), the analog ammeter is indicated as **S1P13**. However, in the Bill of Material (Sr. No. 9) of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1, Page 26 of 47), the ammeter is mentioned as **S1P1.**		
2	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, Fuse No. S1F92 (4 Amp) is provided for the MMR-1 circuit. However, in the Bill of Material (Sr. No. 13, Page 26 of 47) of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1), the fuse is mentioned as S1F93.		
3	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, the Accident Emergency Light Circuit MCB (2-Pole, 6 Amp) is designated as **S1F162**. However, in the Bill of Material (Sr. No. 21, Page 28 of 47) of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1), it is mentioned as S1 162.		
4	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, the MCB (2-Pole, 2 Amp) designated as S1F24 is shown for the Light Control Contactor (S1K49). However, in the Bill of Material (Sr. No. 21, Page 28 of 47) of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1), MCB (2-Pole, 6 Amp) S1F24 is listed as a spare.		
5	As per the Bill of Material of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1), MCB (2-Pole, 6 Amp) is specified for 17 circuits. However, 19 item codes are		

Sr no. of Audit	Observation on variation of rating/ nomenclature in drawings and specification	RCF observations	RITES observation (Corrected / Not Corrected)
	listed, with S1F15 and S1F31 appearing as additional/extra entries (Sr. No. 21, Page 21 of 47).		
6	As per the Bill of Material of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1), MCB (2-Pole, 6 Amp) with item code S1F15 is listed. However, it appears in two locations in the Bill of Material—Sr. No. 21 (Page 28 of 47) and Sr. No. 46 (Page 35 of 47).		
7	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, the MCB for the 5 KVA Transformer primary is designated as S1F106 without any specified rating, while on the secondary side, it is shown as S1F107 (4-Pole, 25 Amp). However, in the Bill of Material (Sr. No. 31, Page 31 of 47) of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1), the MCB for the primary side is listed as S1F107 (16 Amp, 3-Pole), and the secondary side is mentioned as S1F106 (4-Pole, 25 Amp) (referenced at Sr. No. 21, Page 28 of 47).		
8	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184 , Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, the Motor Protection Circuit Breakers (MPCBs) for Ventilation Fan Unit 1 & 2 are designated as S1F01 and S1F02, with a current range of 1.1-1.6 Amp. However, in the Bill of Material (Sr. No. 35, Page 32 of 47) of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1), the MPCBs are listed with a range of 1.6-2 Amp, differing from the values specified in the Single Line Diagram. Duplicate entry for S1F01 and S1F02 are also given at sr. no 35 and 37 of SBC spec 184 Bill of material		
9	As per General Single Line Diagram for Power		

Sr no. of Audit	Observation on variation of rating/ nomenclature in drawings and specification	RCF observations	RITES observation (Corrected / Not Corrected)
	& Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, the DC-DC Converter (110V/24V, 1 Amp) is designated with item code S1A8. However, in the Bill of Material (Sr. No. 56, Page 38 of 47) of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1), the DC-DC Converter is listed with a capacity of 1.5 Amp and an item code S1A08, differing from the Single Line Diagram.		
10	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, three diodes are shown in the AC RMPU Control Unit without any assigned item codes. However, in the Bill of Material (Sr. No. 56, Page 38 of 47) of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1), these diodes are listed with item codes S1V1, S1V2, and S1V3, which are not reflected in the Single Line Diagram.		
11	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, MPCBs S1F03, S1F05, S1F09, and S1F11 (7-10 Amp) are shown for Compressor Unit 1.1, 1.2, 2.1, and 2.2 in the schematic drawing.However, these MPCBs are not mentioned in the Bill of Material of the Switchboard Cabinet (Spec RDSO/PE/SPEC/0184-2015, Rev-1), discrepancy between the schematic diagram and the Bill of Material.		
12	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, input to RBC is shown as 3 Phase, 3		

Sr no. of Audit	Observation on variation of rating/ nomenclature in drawings and specification	RCF observations	RITES observation (Corrected / Not Corrected)
	wire system but as per RBC spec no-RDSO/PE/SPEC/AC/0183 (Rev. '2')-2024, it is given as 3 phase, 4 wire and in harness spec it is shown as 4x6 sqmm cable.		
13	a) As per Harness spec 254, Rev J, Harness no 49C for jumper and branch wiring (sheet 12 of 19) terminal no S1X1 247,248,249 used for Electric heater-2 for RMPU-2 however terminal no S1X1-267,268,269 are used as per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48. b) As per Harness spec 254, Rev J, Harness no. 49B for jumper and branch wiring (sheet 11 of 19) terminal no S1X1 276,277,278 used for crankcase heater-2 for RMPU-2 however terminal no S1X1-270,271,272 are used as per schematic diagram of Roof for FAC (LA70007. Alt-Nil, sheet 7 of 7). c) As per Harness spec 254, Rev J, Harness no. 49B for jumper and branch wiring (sheet 11 of 19) terminal no S1X1 270,271,272 used for condenser fan motor-2.2 however terminal no S1X1-276,277,278 are used as per schematic diagram of Roof for FAC (LA70007. Alt-Nil, sheet 7 of 7). d) As per Harness spec 254, Rev J, Harness no. 49C for jumper and branch wiring (sheet 11 of 19) terminal no S1X1 239,240,241 used for Compressor unit-2.1 however terminal no S1X1-259,260,261 are used as per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48. e) As per Harness spec 254, Rev J, harness no 49Cfor jumper and branch wiring (sheet 11 of 19) terminal no S1X1 243,244,245 used for		

Sr no. of Audit	Observation on variation of rating/ nomenclature in drawings and specification	RCF observations	RITES observation (Corrected / Not Corrected)
	Compressor unit-2.2 however terminal no S1X1-263,264,265 are used General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48. g) As per Harness spec 254, Rev J, harness no. 49B for jumper and branch wiring (sheet 11 of 19, condenser fan motor-2 for RMPU-2) ferrules number are 330527.02, 330534.02, 330509.01 however ferrule no 330521.02, 330523.02,330525.02 used as per schematic diagram of Roof for FAC (LA70007. Alt-NIL, sheet 7 of 7).		
14	As per Harness Specification No. 254, Rev J (Harness No. 1 to 8 for jumper and branch wiring – Sheet 01 & 02 of 19), the limit switches are indicated without any specific numbering. However, as per Drawing No. LA70007, Alt Nil (Sheet 4 of 7), the limit switches are clearly designated as LS1 to LS12.Additionally, the harness specification includes details for only 8 limit switches, whereas the drawing indicates a total of 12 limit switches.		
15	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg. No. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, Exhaust fan (S11M1) for Pantry has been shown but in harness specification EDTS 254, Rev J, wiring harness and terminal has not been shown at Harness 64/64A.		
16	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, terminal number S1X1-108,109 are shown as spare however same terminal nos. are shown for Doorway & Gangway circuit (ref drg. no LA70007, alt-Nil, sheet 2 of 7).		
17	As per General Single Line Diagram for Power		

Sr no. of Audit	Observation on variation of rating/ nomenclature in drawings and specification	RCF observations	RITES observation (Corrected / Not Corrected)
	& Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, terminal number are not shown for accidental emergency light circuit, however Terminal nos. 283, 284 are shown in drg LA70007 alt Nil, sheet 6 of 7. In addition to this in scheme drawings supply is connected for AEL with 110V DC however as per circuit diagram (drg LA70007 alt Nil, sheet 6 of 7) it is shown as 230 V AC.		
18	As per General Single Line Diagram for Power & Control Circuits (for SBC S1 in LHB AC EOG/HOG coaches, Spec 184, Rev-1) drg no. RDSO/PE/SK/AC/0206-2019 (Rev-0) sheet 1 of 48, It is observed that Insulation control Relay (S1A7) is working only in case of Net-1/Net-2 available, however it will not work on Local main supply network-1/2 condition.		
19	Wago terminal number for FLD-2, FLD-3, FLD-4, FLD-5, FLE-6, 7, 8 light switch no. is not matching in drg. No. LA70007, Pg 1, 2, 3 of 7 w.r.t Harness specification no. EDTS 254 Rev. J. Similar discrepancy observed in FLE wago terminals and switches.		
20	Bracket fan for coach attendant is provided on 110 V AC in PSL doc no. ED32 Ver 17 dt. 31.05.2021 (at S.no.178). However, it is connected on 110V DC supply in Drawing no. LA70007 Alt. Nil, Sheet 1/7.		

4. Check if revised work instructions have been issued for:
   - Manufacture of Model Rake (which essentially involves inclusion of this check sheet)
   - Testing of coach and rake as per Audit Report to include Illumination check.

5. Check for issuance of following documents by RDSO/RCF. (Ref. Table 3 Manufacturing Audit of Document No. RCF/AUDIT/ISA/FAC Annexure-A, Rev.1 dated 24.07.2025). Implementation of the documents shall be checked during coach inspection as per Part B – Quality Checksheet.

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations
12	4	2.2	- Check the revised drawing SKED no. 1022 issued for proper routing of Through box cable entry, RBC cables entry, and Battery Box RVH.		
13	5	2.4	- Check CAI no. ED/CAI/037 dt. 24.09.2024 issued for segregation of positive and negative cables in the jumper & branch wiring.		
14	6	2.7	Check if Audit report for provision of cable tray over the doorway area is If found feasible and accepted, check the design document		
15	7	2.9	Check modified drawing of clamp.		
20	12	3.7	Check modified drawing issued for Earthing symbol on fuse box.		

6. Check for issuance of following documents by RDSO/RCF. (Ref. Table 6.1 Looping issues in SBC of Document No. RCF/AUDIT/ISA/AC 2-Tier Annexure-A, Rev.1 dated 05.07.2025)

S. No. of Annex A	S. No. of Audit	Clause no.	Operative part of Check	RCF Observations	RITES Observations
52 & 54	1 & 4	1 & 5(ii)	- Check document to see if RDSO modification sheet no. RDSO/PE/MS/AC 0097-2025 implemented in RDSO specification for SBC.		
53	2	2	There are three MCBs out of 15, at which three terminals are connected. RDSO has issued modification sheet for single input single output connection. - check documents to verify		

S. No. of Annex A	S. No. of Audit	Clause no.	Operative part of Check	RCF Observations	RITES Observations
			modification sheet.		
56	5	5(iii) & (iv)	- For improved loop wiring, check if RDSO has issued any modification to place RMPU MPCB/ MCB with a single three Pole bus bar.		

Part B- Manufacturing Inspection Checksheet - Quality

Check Sheet-Q1

Variant: **First AC**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Intensive Check (100% by RCF & 25% by RITES)

Reference -

i) RDSO Code of Practice for 'Prevention of Fire in AC Coaches – Doc. No. RDSO/PE/O/0008-2005 (Rev-0)'.
ii) RDSO Specification and Code of Practice for Wiring In 750 V EOG System Coaching Stock - Doc. No. ELPS/SPEC/EOG/01, March 1994.
iii) RCF work instructions as mentioned.
iv) RITES Audit Report No. QA/NR/ISA/RCF/FAC/01 REV 0.0 May 2025.
v) RCF letter no. RCF/HSQ/ED/2129(Audit) dated 26.07.2025 issued with Document No. RCF/AUDIT/ISA/FAC Annexure-A, Rev.1 dated 24.07.2025, Section 3 Manufacturing Audit.

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
9	1	1.2 of Sheet-1	Check roof wiring and underframe cables on sample basis for marking of ferrules / Cable colour code at location RMPU power cables in SBC, all Cabin and Lavatory JB, FLE, FLD, NL, BRL, AEL, Alarm card, FSDS, Exhaust fan, Feeder box, Transformer, RBC Cum EBC, WRP, Capacitor Bank, Fuse Box and Battery Box terminal area. There should be no handwritten ferrules.		
10	2	1.3(ii) of Sheet-1	Check the rating of MCB for LMS 1 and LMS 2 control circuit. It should be 1-pole 2A MCBs (F67, F68) as per RDSO dwg. No. RDSO/PE/SK/AC/0206-2019(Rev.0).		

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
11	3	2.1 of Sheet-1	Check Alarm card and call bell indication internal cables as per the specification.		
12	4	2.2 of Sheet-1	Check Through box cable entry, RBC cables entry, and Battery Box RVH area on sample basis. No RVH joints should be present as per revised drawing SKED no. 1022. - Check the revised drawing SKED no. 1022.		
13	5	2.4 of Sheet-1	Check the separation of positive and negative cables in the jumper & branch wiring as per CAI no. ED/CAI/037 dt. 24.09.2024. - Check CAI no. ED/CAI/037 dt. 24.09.2024 issued for segregation of positive and negative cables in the jumper & branch wiring.		
14	6	2.7 of Sheet-1	- Check polyamide flexible conduits emanating from top of the SBC and passing over the doorway and coach inside area. These should be tied properly and not hanging and routing should be proper. - Check Audit report for feasibility of provision of cable tray over the doorway area. If found feasible and accepted , check the provision on Coach.		
15	7	2.9 of Sheet-1	Check modified drawing of clamp. Check 70mm Conduit pipe clamp on Coach. It should not be loose and be properly fitted. Size of clamp in drawing ____ Size of clamp at Coach		

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
			____		
16	8	2.12 & 7.1 of Sheet-1	Check cables emerged from polyamide flexible conduits and entering into Lav. Light & Limit switch. These should be covered with cable jackets.		
17	9	2.13 of Sheet-1	Check availability of rubber beading at D&ED cable entry area.		
18	10	2.14 & 2.15 of Sheet-1	Check RBC cum EBC terminal box inside cables connection. It should be with proper lug. - Check SBC Inside S1K41, SIK42 input cables connection. It should be with proper wago connector.		
19	11	3.2 of Sheet-1	Check the earthing in lights (NL, BRL, AEL, Alarm card, Flushing System).		
20	12	3.7 of Sheet-1	- Check modified drawing issued for Earthing symbol on battery fuse box as per the revised drawing nos. LW71001 alt J (for +ve) and LW71002 alt J (for -ve). - Check availability of mark on Coach		
21	13	5.4 of Sheet-1	Check Heat Shrink sleeves availability at 55+5 KVA Transformer and 5 KVA Transformer cable crimped area.		
22	14	7.7 of Sheet-1	Check proper fixing of Positive fuse box.		
23	15	10.1 of Sheet-1	i) Check availability of wago terminals in HT panel LMS and RBC earth cable. ii) Check marking on wago terminals of All cabin JB, Capacitor bank and Lavatory JB.		

Check Sheet-Q2

Work Instructions for Cabling and Harness

Reference -

i) RITES Audit Report No. QA/NR/ISA/RCF/FAC/01 REV 0.0 May 2025.

ii) RCF letter no. RCF/HSQ/ED/2129(Audit) dated 26.07.2025 issued with Document No. RCF/AUDIT/ISA/FAC Annexure-A, Rev.1 dated 24.07.2025, Section 3 Manufacturing Audit.

iii) EDTS 252 Rev J Corr 10,

iv) ELRS/SPEC/ELC/0019 Rev-4,

v) RDSO/PE/SPEC/AC/0138-2009, Rev-1,

vi) Work instruction EDW 003, EDW006, EDW007

Variant: **First AC**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

S. No. of Annex A	S No. of Audit	Clause No.	Check point	RCF Observations	RITES Observations (Accepted / Rejected)
28	20	10 of Sheet-2	i) Check connection of Earth cable at both RMPU body earth. It should be made after removing paint. ii) Check availability of Earthing of D & ED body. iii) Check availability of correct size of Earth cable connection with mounting bolt, plain and spring washer.		
29	21	11 of Sheet-2	Check proper tightening of end fitting of power cable Harting coupler in RMPU. - Check availability of proper size clamp, Hardware.		
30	22	12 of Sheet-2	Check availability of Fire pro sensor inside the HT Panel.		

Check Sheet-Q3

Work Instruction for Precaution to be taken while laying of cables EDW 0007 version 1.0

Ref specification-

i) All cables specification

ii) RITES Audit Report No. QA/NR/ISA/RCF/FAC/01 REV 0.0 May 2025.

iii) RCF letter no. RCF/HSQ/ED/2129(Audit) dated 26.07.2025 issued with Document No. RCF/AUDIT/ISA/FAC Annexure-A, Rev.1 dated 24.07.2025, Section 3 Manufacturing Audit.

Variant: **First AC**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

S. No. of Annex A	S No. of Audit	Clause No.	Operative part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
31	23	3.1 of Sheet-4	Check bending radius of cables having size 25 mm2 and above, at both Positive and Negative Fuse box. It should be greater than 4D.		
32	24	3.10 of Sheet-4	Check clamp size for PMA hose of Positive fuse box cable. Check modified drawing of clamp. Size of clamp in drawing ____ Size of clamp at Coach _____		
33	25	3.12 of Sheet-4	Check conduit pipes in cabins on sample basis. There should be no damage and sharp edges		
34	26	3.13 of Sheet-4	Check availability of rubber beading on PMA hose clamp on RBC cable.		
35	27	3.14 of	Check proper routing		

S. No. of Annex A	S No. of Audit	Clause No.	Operative part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
		Sheet-4	of PMA hose in LV Panel (SBC) top Side.		
36	28	3.19 of Sheet-4	Check clamp size of Feeder conduit pipe. It should be properly tightened. Check modified drawing of clamp. Size of clamp in drawing ____ Size of clamp at Coach _____		
37	29	3.21 of Sheet-4	Check PMA hose of Attender room FL & NL cable roof side. There should be no joint.		
38	30	3.23 of Sheet-4	Check availability of mounting bolt, Washer and check nut at locations 55+5 KVA Transformer and Both fuse Box terminals, WRP controller, Lavatory JB and Both LMS socket mounting, Both RMPU and its earth cable mounting, Feeder box and WRP body earth cable mounting area.		

Check Sheet-Q4

Work Instructions for Installation and Commissioning of AC Package Unit Control Panel EDW 0009 Version 1.0

Reference-

i) Work instruction-EDW0009 Rev-1.0,
ii) AC package unit-RDSO/ PE/SPEC/AC/0061-2005 (Rev-1)
iii) Microprocessor controller for RMPU
iv) RDSO/PE/SPEC/AC/0139-2009 (Rev-1)
v) RITES Audit Report No. QA/NR/ISA/RCF/FAC/01 REV 0.0 May 2025.
vi) RCF letter no. RCF/HSQ/ED/2129(Audit) dated 26.07.2025 issued with Document No. RCF/AUDIT/ISA/FAC Annexure-A, Rev.1 dated 24.07.2025, Section 3 Manufacturing Audit.

Variant: **First AC**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

S. No. of Annex A	S No. of Audit	Clause No.	Operative part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
39	31	3.1.1 of Sheet-6	Check availability of mounting bolt washer and check nut in RMPU. Check Torque marking.		
41	33	3.1.5 of Sheet-6	Check that RMPU mounting bolt washer and check nut are fitted. Torque marking should also be present.		

Check Sheet-Q5

Work Instruction for Crimping of Cable Ends and Cable Terminations EDW 0006 version 3.0

Reference–

i) EDTS-200, Rev nil, Am-2, Cor-3 or (Latest)
ii) EDTS-201 Rex 'A', Am 1. Cor-2 or (Latest)
iii) IEC/EN-60352-2-2006 A1-2013
iv) IEC-61238-1
v) BS 7609:1992
vi) RDSO specification no. ELRS/SPEC/ELC/0019, (Rev) or Latest.
vii) RITES Audit Report No. QA/NR/ISA/RCF/FAC/01 REV 0.0 May 2025.
viii) RCF letter no. RCF/HSQ/ED/2129(Audit) dated 26.07.2025 issued with Document No. RCF/AUDIT/ISA/FAC Annexure-A, Rev.1 dated 24.07.2025, Section 3 Manufacturing Audit.

Variant: **First AC**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

S. No. of Annex A	S No. of Audit	Clause No.	Operative part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
43	35	3.1.1 of Sheet-7	i) Check whether proper size Crimping Socket used for connection of primary cable in 5 KVA Transformer & RBC earth cable at the HT panel end. ii) Check whether all external cables are connected with lug.		
44	36	3.1.2 of Sheet-7	i) Check visibility of strands through the inspection hole of the crimping Socket at 55+5 KVA Transformer. ii) Check cable insulation at locations 55+5 KVA Transformer, 5 KVA		

S. No. of Annex A	S No. of Audit	Clause No.	Operative part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
			Transformer and Dump valve earth cable. No Excess cable insulation should be removed Check on sample basis whether excess strands should not be cut.		
45	37	3.1.3, 3.1.14 of Sheet-7	Check whether appropriate crimping tool for insulated terminal end cables is being and their calibration record is available. Check whether appropriate tool is being used for removing the insulation.		
49	41	3.1.12 of Sheet-7	- Check process of heat shrinking of marking ferrules. It should be carried out on off condition of circuit.		
50	42	3.1.20 of Sheet-7	Check availability of pull out test Record		
51	43	3.2.2 of Sheet-7	Terminations at one point should not be more than two. Check inside LV panel (SBC) at S1K44 contactor terminals R, Y & B.		

Check Sheet-Q6

Testing Stage:

Ref.

i) RITES Audit Report No. QA/NR/ISA/RCF/FAC/01 REV 0.0 May 2025.

ii) RCF letter no. RCF/HSQ/ED/2129(Audit) dated 26.07.2025 issued with Document No. RCF/AUDIT/ISA/FAC Annexure-A, Rev.1 dated 24.07.2025, Section 4 Testing Audit.

Variant: **First AC**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

<table>
<tr><th>S. No. of Annex A</th><th>S. No. of Audit</th><th>Clause no.</th><th>Operative part of Check</th><th>Specified Value</th><th>RCF Observations</th><th>RITES Observations (Accepted / Rejected)</th></tr>
<tr><td>54</td><td>1</td><td>11.1</td><td>illumination (uniformity and lux measurement) Test as per as per RDSO spec RDSO/PE/SPEC/TL/ 0091-2016 (REV-1)

- To be performed on one coach per variant only.</td><td>The voltage during the test shall be maintained at 110V with a tolerance of +0 / -3V.
The test shall be conducted as per Annexure-1 and in accordance with Clauses 6.12 and 6.13 of the specification.</td><td></td><td></td></tr>
<tr><td>56</td><td>3</td><td>12.5.1</td><td>Check Insulation resistance Test record for 750, 415, 110, 24 V circuit before and after high voltage test.</td><td>
<table>
<tr><th>s. no</th><th>Rated voltage</th><th>Megg ering voltag e</th><th>Insulation value</th></tr>
<tr><td>1</td><td>750 V AC</td><td>1000V DC</td><td>Not less than 5 M ohm</td></tr>
<tr><td>2</td><td>415 V AC</td><td>500 V DC</td><td>Not less than 3 M ohm</td></tr>
<tr><td>3</td><td>230 V AC</td><td>500 V DC</td><td>Not less than 2 M ohm</td></tr>
<tr><td>4</td><td>190 V AC</td><td>500 V DC</td><td>Not less than 2 M ohm</td></tr>
<tr><td>5</td><td>110 V AC</td><td>500 V DC</td><td>Not less than 2 M ohm</td></tr>
<tr><td>6</td><td>24 V</td><td>110 V</td><td>Not less than</td></tr>
</table>
</td><td></td><td></td></tr>
</table>

S. No. of Annex A	S. No. of Audit	Clause no.	Operative part of Check	Specified Value	RCF Observations	RITES Observations (Accepted / Rejected)
				DC DC 1 M ohm Insulation resistance values measured immediately after the high voltage tests shall not be less than the original value		
57	4	12.5.2	Check High Voltage Test	All 750 V and 415 V circuits at a voltage of 1500 V for a period of 1 minute to be withstood All circuits on 190/110V shall be tested at a voltage of 1000V for a period of 1 minute to be withstood		
58	5	12.5.4	Continuity test on IV coupler.	Continuity to be checked OK/Not OK		

Check Sheet-Q7

Inspection of SBC

Ref-

i) RDSO Spec Revision ---- (to be obtained)
ii) RITES Audit Report No. QA/NR/ISA/RCF/AC2T/01 Rev.00 March 2025.
iii) RCF letter no. RCF/HSQ/ED/2129(Audit) dated 05.07.2025 issued with Document No. RCF/AUDIT/ISA/AC 2-Tier Annexure-A, Rev.1 dated 05.07.2025, Section 1, Section 4 and Section 6.

Variant: **First AC**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

S. No. of Annex A	S. No. of Audit	Clause no.	Operative part of Check	RCF Observations	RITES Observations (Accepted / Rejected)
2 of Sec 1	3,4	Compressor Motor MPCB rating 7A - 10A. Setting at 10A.	- Refer work instructions. - Record actual setting on Coach as per RDSO letter no. EL/7.1.108/SBC/Main dtd. 10.06.2025.		
3 of Sec 1	5	Condenser Fan MPCB Rating 1.6A - 2.5A. Setting at 1.8A. Blower/ Evaporator MPCB rating - 2.5A - 4A. Setting at 2.8A Water Pump-1 MPCB Rating 1A - 1.6A. Setting at 1.1.A Water Pump-2 MPCB Rating 1A - 1.6A. Setting at 1.1A.	- Refer work instructions. - Record actual setting on Coach as per RDSO letter no. EL/7.1.108/SBC/Main dtd. 10.06.2025.		

S. No. of Annex A	S. No. of Audit	Clause no.	Operative part of Check	RCF Observations	RITES Observations (Accepted / Rejected)
4 of Sec 1	6 to 10	MCB of Lighting circuits	Revision by RDSO as 3 Amp. and MCB rating check as per RDSO letter no. EL/6.8.21 dtd. 04.09.2025.		
5 of Sec 1	11	Fire Detection circuit - MCB Rating 2 Amp	- Refer work instructions. - Record actual setting on Coach as per RDSO letter no. EL/6.8.21 dtd. 15.07.2024.		
6 of Sec 1	12	MCB of Sanitary Control circuits	Revision by RDSO as 3 Amp. and MCB rating check as per RDSO letter no. EL/6.8.21 dtd. 04.09.2025.		
41 of Sec. 4	1	B(h)	Check availability of two braided copper cable of 70 mm^2 and 300 mm length, each duly crimped to be supplied with panel. Reject if unbraided cable is provided		
42 of Sec. 4	2	B(i)	Check Make of Halogen free Polycarbonate / ABS duct. It should be Trinity Touch/ L&T/ Phoenix. Reject if approved make is not provided.		
43 of Sec. 4	3	g	- Check availability of Work instructions no. EDW0025 Ver1.0 dt 09.06.25 on Shop Floor - Check insulation Resistance Test records		
44 of	4	m	Check Marking.		

S. No. of Annex A	S. No. of Audit	Clause no.	Operative part of Check	RCF Observations	RITES Observations (Accepted / Rejected)
Sec. 4			Schematic diagram should be available as specified on SBC		
-	Gen1	-	Check that SBC provided is as per revised RDSO specification		
52 & 54 of Sec. 6	1 & 4	1 & 5(ii)	- If RDSO modification sheet no. RDSO/PE/MS/AC 0097-2025 implemented in RDSO specification for SBC, if this document and check implementation in SBC on shop floor.		
53 of Sec. 6	2	2	There are three MCBs out of 15, at which three terminals are connected. RDSO has issued modification sheet for single input single output connection. - check documents to verify modification sheet. - If the same is issued, check implementation on SBC on shop floor.		
56 of Sec. 6	5	5(iii) & (iv)	- For improved loop wiring, check if RDSO has issued any modification to place RMPU MPCB/ MCB with a single three Pole bus bar. - If issued, check implementation on SBC on shop floor.		

Check Sheet-Q8

Checks on embedded devices such as WSP, CCTV, Passenger Information system, Fire Alarm system or any other embedded device fitted on coach –

Variant: **First AC**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

A. WSP

SN	Operative part of Check	RCF Observations	RITES Observations (Accepted / Rejected)
1	Check if line diagram, circuit diagram and specification have been issued		
2	- Check if use of Fire-retardant material has been specified. - Check if the same has been checked through Quality Audit/ inspection.		

B. CCTV

SN	Operative part of Check	RCF Observations	RITES Observations (Accepted / Rejected)
1	Check if line diagram, circuit diagram and specification have been issued		
2	- Check if use of Fire-retardant material has been specified. - Check if the same has been checked through Quality Audit/ inspection.		

C. Passenger Information system

SN	Operative part of Check	RCF Observations	RITES Observations (Accepted / Rejected)
1	Check if line diagram, circuit diagram and specification have been issued		
2	- Check if use of Fire-retardant material has been specified. - Check if the same has been		

SN	Operative part of Check	RCF Observations	RITES Observations (Accepted / Rejected)
	checked through Quality Audit/ inspection.		

D. Any other equipment of this category

SN	Operative part of Check	RCF Observations	RITES Observations (Accepted / Rejected)
1	Check if line diagram, circuit diagram and specification have been issued		
2	- Check if use of Fire-retardant material has been specified. - Check if the same has been checked through Quality Audit/ inspection.		

Part C- Manufacturing Inspection

Checksheet – Electrical Production

Checksheet-P1

STAGE-III PANEL (LWFAC FIRST CLASS AC COACH)

Variant: First AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
1. SBC PANEL			
1.1	Check the **SBC** Double earthing to be provided.		
1.2	Check the Cables inside the SBC to be bunched properly with insulated stiffener.		
1.3	Check the Numbering ferrules to be provided for all cables.		
1.4	Ensure the proper cable size, crimping, Heat Shrink Sleeve provision and there is no connection more than 2 cable at a terminal		
1.5	Ensure all MCB, MPCB rating should be as per Letter No. EL/7.1.108/MSSBC dated 17.09.2021		
1.6	Check the Polycarbonate covering glass to be provided.		
1.7	Check the proper locking of **SBC** Doors.		
1.8	Check the disconnecting and earthing device to be cleaned.		
1.9	Check the disconnecting and earthing device mounting.		
1.10	Check the disconnecting and earthing device cable to be secured.		
1.11	Ensure MMR fuse rating is 4A (8 Nos) and MMR setting is proper		
1.12	Check the control transformer fuse to be provided.		
1.13	Check the all-cable tray cover to be provided.		
1.14	Check the all-fuse safety cover to be provided.		
1.15	Check the all the **MCBs** and **MPCB** naming plate to be provided.		
1.16	Check the **SBC** all switched name plate to be provided.		
1.17	Check the **SBC** area to be cleaned.		
1.18	Ensure **RC** filter earth cable is connected.		
1.19	Check **RC** filter fuses.		

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
1.20	Ensure the Capacitor Bank cable connection and Spare cable to be secured properly		
1.21	Ensure provision of 4 Nos. Aerosol based Fire Suppression system with proper fitment and verify their locations		
1.22	i) Ensure the Aerosol based Fire Suppression system Safety pin status as per the Letter No. EL/7.1.108/MSSBC dated 07.02.2023 FirePro - Safety pin should be removed STATX - Safety pin should not be removed HAFEX - Safety Allen key should be removed. PYROGEN – Not Applicable DSPA BV - Not Applicable ii) Ensure the Action Temperature setting as 68-72 deg C as per Letter No. EL/7.1.108/SBC/Main dated 06.08.2025. iii) Check operation/ temperature setting of one Fire Extinguisher on **one coach per variant** as per RDSO letter no. EL/7.1.108/SBC/Main dated 06.08.2025 in controlled condition outside the coach		
1.23	Check the sharp edge protection of **SBC** Panel.		
1.24	Heat shrinkable ferrule be be insure.		
1.25	Ensure all equipment identification number.		
1.26	Ensure SBC panel dressing.		
1.27	Ensure all equipment rating as per guideline.		
1.28	Ensure the Provision of the Fire barriers at SBC cable entry area		

General remarks (If Any):

CONFIRMING/NON-CONFIRMING

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	

Checksheet-P2

STAGE-III ROOF/PRECELLING (LWFAC LHB FIRST CLASS AC COACH)

Variant: **First** AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S. NO.	ITEM TO BE INSPECTED AS PER HARNESS SPEC NO.-EDTS 254, REV-J	RCF REMARK	RITES REMARK (OK/NOT OK)
1.	To ensure DC 110 V +VE & -VE segregation as per **ED/CAI/033** dtd 02.04.2024.		
2.	Check for roof **40 mm** conduits clamping tightness.		
3.	Check for roof **20 mm** conduits clamping tightness.		
4.	To ensure roof conduit clamps are provided at regular distance.		
5.	Check for all cable harness laying as per specification.		
6.	Check cables are to be provided with numbering ferrules.		
7.	To ensure necessary sharp edge protection given for cables using RVH (in metal contact) or Sleeves (for non-metallic contact).		
8.	To ensure that Cables are to be connected properly at all Cage clamps terminal/WAGO on Roof and Side walls.		
9.	To ensure all Rooms JB/cage clamp cables to be secured with ferrules.		
10.	To ensure all **JB/cage clamp** Main clamps to be fixed with spring and Plain washers and tightness.		
11.	To ensure the PP side above both doorway all RVH conduits to be secured with clamps.		
12.	To ensure the rubber bidding is available on roof cable tray edges and ensure wago connection and securing of cable with cable sleeves.		
13.	Check proper under frame lying of cables with numbering ferrules.		
14.	To ensure proper under frame lying of conduit (70 mm) secured with clamping by Spring and Plain washers.		
15.	To ensure **CS** cables are provided with ferrules and Cables to be Secured with Cable tie.		

S. NO.	ITEM TO BE INSPECTED AS PER HARNESS SPEC NO.-EDTS 254, REV-J	RCF REMARK	RITES REMARK (OK/NOT OK)
16.	To ensure Charging Socket Cable Color code **(RYB)**.		
17.	To ensure RMPU related all cables with proper ferrule to be provided.		
18.	To ensure cables are provided for lavatory exhaust fans with proper ferrule and RVH/Sleeves.		
19.	Check BRL wiring.		
20.	To ensure **FLD** cables to be provided in Room Side.		
21.	To ensure **FLS** Cables and **NL** cables to be provided at Corridor Side.		
22.	To ensure AEL Cable to be provided.		
23.	To ensure all Rooms, PP & NPP side Speaker Cables.		
24.	To ensure Both NPP & PP side WC Cables.		
25.	To ensure all cables sleeves.		
26.	To ensure Both Side UIC all Cables.		
27.	To ensure SBC panel mounting and hardware to be checked.		
28.	Check proper use of fire barrier at cable entry point in SBC.		
29.	To ensure attendant room bracket fan cables are provided with ferrules.		
30.	To ensure Annunciator Cables to be provided with ferrules.		
31.	To ensure geyser cables are provided with ferrule.		

General remarks (If Any):

CONFIRMING/NON CONFIRMING

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	

Checksheet-P3

STAGE-III UNDER FRAME OF LWFAC-LHB FIRST CLASS AC COACH

Variant: First AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
1. 750V FEEDER PIPE, CABLE TRAY & FEEDER JUNCTION BOX			
1.1	To ensure the tightness of clip-clamp in the rubber hoses provide in feeder pipe.		
1.2	To ensure all the 70 mm Conduit clamps are tightened with **M 8 x 35 Hex**. Head bolt, **M8** Nyloc Nut and **8.4** Plain Washer.		
1.3	To ensure Both PP and NPP Bogie area 70 mm Conduits clamps to be provided and tighten.		
1.4	Check for providing of Silicon Sealants at the Rubber hose and Conduits joints at feeder box.		
1.5	Checking of **PMA** conduits near the both end bogie area to be secured.		
1.6	To ensure for closing the Dummy holes on the Feeder Junction Box		
1.7	To ensure for providing of feeder junction box cover in both PP and **NPP** end and all bolts are provided.		
1.8	To ensure All feeder boxes door cover earthing to be done**. (16 sq mm)**		
1.9	To ensure water tightness rubber gasket Feeder junction box cover.		
1.10	Check the Power cable crimping and tightness of the connection.		
1.11	Check the Power cable entering in junction box sharp edge protection.		
1.12	Ensure the alignment of cable tray and confirm that there is no gap between the cable trays except in the dump valve areas		
1.13	To ensure no cable tray is infringing with brake pipe lines.		
1.14	To ensure all cable trays are mounted to coach body with M 8x25 Hex Head bolt, **M8** Nyloc Nut and an **8.4** Plain washer.		
1.15	To ensure all PMA conduits are secure inside the cable		

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
	tray with cable tie.		
1.16	To ensure through Box cover to be provided.		
1.17	To ensure through Box Unwanted holes to be closed.		
1.18	To ensure through Box connected all PMA to be secured with clamp.		
2. NEGATIVE AND POSITIVE FUSE BOX			
2.1	Check the fitment of Negative and Positive fuse box, mounted with proper hardware.		
2.2	Check the Dummy Holes to be closed in both negative and positive fuse box.		
2.3	To ensure cable tightness in Negative and Positive fuse box.		
2.4	To ensure in Both Positive and Negative Fuses Safety guard to be provided.		
2.5	To ensure PMA end fitting with gasket.		
3. 60 KVA TRANSFORMER			
3.1	Check the Transformer cable entry end fitting glands to be tightened.		
3.2	To ensure no PMA conduit joints.		
3.3	To ensure Transformer PMA Conduits to be secured with clamp properly.		
3.4	To ensure PMA end fitting with gasket.		
4. 5 KVA TRANSFORMER			
4.1	Check the Transformer cable entry end fitting glands to be tightened.		
4.2	To ensure no PMA conduit Joints.		
4.3	To ensure Transformer PMA Hose to be secured with clamp properly.		
4.4	To ensure Transformer PMA Conduits to be secured properly		
4.5	To ensure PMA end fitting with gasket.		
5. WRP			
5.1	To ensure WRP Cable conduits to be secured.		
5.2	To ensure PMA end fitting with gasket.		
6. CAPACITOR BANK			
6.1	Check the Capacitor PMA Conduits are clamped and secured properly.		
6.2	To ensure PMA end fitting with gasket.		
7. RBC			
7.1	To ensure PMA conduit clamps to be provided.		
7.2	To ensure PMA end fitting with gasket.		
8. BATTERY BOX & BATTERY			
8.1	To ensure PMA end fitting with gasket.		
8.2	To ensure PMA conduit clamps to be provided.		
9. SPEED SENSOR CABLE AND DUMP VALVE			
9.1	To ensure Dump valve PMA Conduits to be secured		

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
	properly.		
9.2	Check the clamping of Speed Sensor Cable.		
10. LOCAL MAIN SUPPLY SOCKET			
10.1	To Ensure PMA end fitting with gasket.		
10.2	To ensure LMS PMA Conduits to be secured properly.		
11. SBC PANEL			
11.1	To Ensure PMA end fitting with gasket.		
11.2	To ensure SBC PMA Conduits to be secured properly.		
12. OTHERS POINTS			
12.1	To check all the Under-frame laying cables ferrules		
12.2	Final/Cross Check with SIP data with actual coach		

General remarks (If Any):

CONFIRMING/NON CONFIRMING

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	

Checksheet-P4

STAGE-III LOADING, UNDERFRAME OF LWFAC-LHB FIRST CLASS AC COACH

Variant: First AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S.NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
1. BATTERY BOX & BATTERY			
1.1	Check the Loading of battery in battery box, packing.		
1.2	To ensure wooden stoppers inside Battery box to be provided.		
1.3	To ensure Lug date within six months.		
1.4	To ensure the battery cell top stopper plate to be tightened.		
1.5	Check any cells are damaged or leak.		
1.6	Check whether same make batteries are provided.		
1.7	To ensure Battery Box to be mounted with proper hardware and ensure **(16*70mm)** with torque marking		
1.8	To ensure Battery Box door to be closed properly.		
1.9	Ensure the battery box and fuse name plate and its rating.		
2. 60/55+5 KVA TRANSFORMER			
2.1	Check the fitment of 60/55+5 KVA Transformer mounting. **(16*60 mm)** **(12*50 mm)** **(12*40 mm)**		
2.2	Ensure tightness of the mounting and torque marking.		
2.3	Ensure transformer holding safety chain are provided.		
2.4	Ensure the transformer name plate and its rating.		
3. 5 KVA TRANSFORMER			
3.1	Check the fitment of 5 KVA Transformer mounting with proper hardware's. **(12*40 mm)**		
3.2	Ensure the 5 KVA transformer name plate and its rating.		

S.NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
4. WRP			
4.1	Check the mounting arrangements of WRP with proper hardware's. **(16*50 mm)**		
4.2	Ensure the Pump name plate and its rating.		
5. WRP, PUMP CONTROLLER			
5.1	To ensure Pump controller to be mounted with proper hardware.		
5.2	Check pump controller dressing.		
5.3	Ensure the WRP pump controller name plate and its rating.		
6. CAPACITOR BANK			
6.1	Check the mounting arrangements of Capacitor bank with proper hardware's**. (12*40 mm)**		
6.2	Ensure the capacitor bank name plate and its rating.		
7. RBC Cum EBC			
7.1	Check the mounting arrangements of RBC with proper hardware's. **(12*40 mm)**		
7.2	To ensure RBC cum EBC terminal Box Cover to be provided and Bolts to be tighten.		
7.3	Check any obstruction to do the cable connection.		
7.4	To ensure RBC cum EBC door to be closed and Bolts to be tighten.		
7.5	Check the RBC cum EBC WAGO Connection.		
7.6	To ensure RBC cum EBC unwanted dummy holes.		
7.7	Ensure the RBC cum EBC name plate and its rating.		
8. SBC PANEL			
8.1	Check the mounting arrangements panel with proper hardware's.		
8.2	To ensure Panel Cover to be provided and Bolts to be tighten.		
8.3	Check any obstruction to do the cable connection.		
8.4	To ensure Panel door to be closed and Bolts to be tighten.		
8.5	Ensure the SBC Panel name plate and its rating.		
9. ATTENDENT ROOM FAN			
9.1	Check the mounting arrangements FAN with proper hardware's.		
9.2	Check any obstruction to do the cable connection.		

S.NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
9.3	Ensure the Attendant room name plate and its rating.		
10. GEYSER			
10.1	Check the mounting arrangements geyser with proper hardware's.		
10.2	Check any obstruction to do the cable connection.		
10.3	Ensure the geyser name plate and its rating.		

General remarks (If Any):

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	

Checksheet-P5

STAGE-IX, ROOF LWFAC-LHB FIRST CLASS AC COACH

Variant: First AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S.NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
1. LED FITTING			
1.1	To ensure all LED fitting to be mounted with screws, spring and plain washer.		
1.2	To ensure all LED fitting to be provided (AC and Non AC Area).		
1.3	To ensure all LED fitting Diffuser cover to be provided.		
1.4	To ensure gap between LED fitting and roof ceilings to be arrested.		
1.5	To ensure all LED WAGO connections.		
2. CHARGING SOCKETS FITTING			
2.1	To ensure all switch panels to be mounted with screws and washers.		
2.2	To ensure gap between switch panel and side panel to be arrested.		
2.3	To ensure all Switch plate Cover to be provided		
2.4	Check whether any switch is fixed in reverse position		
2.5	To ensure all switch connections.		
3.AEL FITTING			
3.1	To ensure all AEL mounting		
3.2	To ensure all AEL WAGO connection		
3.3	To ensure Gap between AEL and Side Panel to be arrested.		
3.4	To ensure all AEL covers to be closed with proper hardware.		

S.NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
3.5	Check AEL orientation.		
4. WC FITTING			
4.1	Check the fixing of WC Light.		
4.2	Check WC WAGO connection		
4.3	Check any WC is fixed in reverse position		
5. PACIL LED FIXING			
5.1	Check the fixing of PACIL LED		
5.2	Check the connection of PACIL LED		
5.3	Check the fixing of PACIL Silicone sealant to be provided at gaps.		
6. LAVATORY INSIDE LIGHT/RAZOR SOCKET/WC			
6.1	To ensure Lavatory light WAGO connection		
6.2	Ensure the provision of Light fitting in all lavatory with switch control		
6.3	To ensure all lavatory light fitting cables to be secured.		
6.4	To ensure both the NPP and PP side lavatory JB cables to be secured and cover to be provided.		
6.5	To ensure all lavatories TOL limit switches to be provided.		
6.6	To ensure Lavatory inside razor socket WAGO connection		
6.7	To ensure Lavatory inside razor socket mounting		
6.8	To ensure Gap between lavatory razor socket and Side Panel to be arrested.		
7. RMPU			
7.1	Ensure RMPU earthing on non-painted area and tightness with proper hardware		
8. BRL FITTING			
8.1	To ensure all BRLs to be mounted with proper hardware.		
8.2	To ensure Gap between BRL and Side Panel to be arrested.		
8.3	To ensure Push button of all BRLs to be checked.		
8.4	To ensure all BRL WAGO connection		
9. ATTENDENT ROOM FAN			
10.1	To ensure fan connection.		
10. GEYSER			
11.1	To ensure geyser connection.		
11. ANNUNCIATOR			

S.NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
12.1	To ensure annunciator connection		
12.2	To ensure annunciator to be mounted with proper hardware.		

General remarks (If Any):

CONFIRMING/NON CONFIRMING

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	

Checksheet-P6

STAGE-IX, RMPU ROOF MOUNTED AC PACKAGE UNIT OF LHB AC COACH

Variant: First AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
1.	Check RMPU connection in panel and top side as per colour code and ferrule.		
2.	To ensure all nut-bolt tightening and enactment of cover and mesh for RMPU related equipment are ensured properly.		
3.	Check RMPU earthing.		
4.	Check Digital Display unit mounting.		
5.	Check RMPU microprocessor mounting.		
6.	Check RMPU microprocessor and display dressing.		
7.	Check AC plant working in both auto mode and manual mode by Auto Manual rotary switch.		
8.	Check phase sequence of the all motor and their running normally.		
9.	Check digital display unit and analog gauge, showing correct reading and compare both of them for any pressure difference in **LP** & **HP** gauges.		
10.	Check RMPU microprocessor working properly.		
11.	Check Safety checks of devices (i) **LP (35 +15/-15 psig**) (ii) **HP (425 +15/-15 psig)** and (iii) **OHP.**	(i) (ii) (iii)	
12.	Check thermostat performance of seven set points.		
13.	Check All sensors like **RT1, RT2, SA1, SA2, AT1, AT2** temperature sequence and working.		
14.	Check AC plant load current as measured for blower motor, condenser fan motor and compressor and heater. (Ref. Sheet 7)		
15.	To ensure air delivery data are recorded for fresh air, exhaust air, return air and supply air as per format.		
16.	Check return air filter: Whenever fresh air delivery data are recorded, before measuring the data the evaporator cover of RMPU is to be opened and return air filter were checked, after		

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
	that adjustable louver are adjusted to appropriate angle for fresh air intake. Later on fresh air data are recorded.		
17.	Ensure Both RMPU Unit 1 & 2 Name plate and Rating.		
18.	Ensure Both RMPU Unit 1 & 2 mounting torque marking.		

General remarks (If Any):-

CONFIRMING/NON CONFIRMING

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	

Checksheet-P7

RMPU 1 & 2 SAFETY CHECKS

Variant: First AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S. NO.	DESCRIPTION	LOW PRESSURE		HIGH PRESSURE	
		NORMAL PRESSURE	TRIPPING PRESSURE	NORMAL PRESSURE	TRIPPING PRESSURE
1.	COMPRESSOR 1.1				
2.	COMPRESSOR 1.2				
3.	COMPRESSOR 2.1				
4.	COMPRESSOR 2.2				

OHP MEASURES: -		REMARKS: -
HEATER 1		
HEATER 2		
HYGROSTATE:		
RMPU DC EARTH:		

AIRCON Rotary ON/OFF	
415V OK Indication will glow only when K45 MMR relay is OK	
Individual 1P 3A MCB control S1F131 to S1F144	
EMERENGY MODE (Even after removing the Controller Main Supply connector, both blower motors should continue to run)	

AUTO/MANUAL:	
CONTROL PRESSURE:	
DPS:	
Display the coach temperature after 30 seconds of inactivity in the display operation as per the Letter No. EL/7.1.105/Controller/Main Dated 22-09-2025	

COACH NO :	**DATE:**
EQUIPMENT CURRENT READINGS :	

Equipment Description	**MCB Control**	**Capacitance Value At the MCB Terminal RY, YB, BR**	
		Acceptance Value	**Observed Value**
Blower Motor 1	S1F120 3P 3A	**7** µF (1 KVAR)	
Condenser Motor 1.1	S1F122 3P 3A	7 µF (1 KVAR)	
Condenser Motor 1.2	S1F123 3P 3A	7 µF (1 KVAR)	
Compressor 1.1	S1F124 3P 6A	21 µF (3 KVAR)	
Compressor 1.2	S1F125 3P 6A	21 µF (3 KVAR)	
Blower Motor 2	S1F121 3P 3A	7 µF (1 KVAR)	
Condenser Motor 2.1	S1F126 3P 3A	7 µF (1 KVAR)	
Condenser Motor 2.2	S1F127 3P 3A	7 µF (1 KVAR)	
Compressor 2.1	S1F128 3P 6A	21 µF (3 KVAR)	
Compressor 2.2	S1F129 3P 6A	21 µF (3 KVAR)	

AC PLANT UNIT-1 CURRENT READING						
EQUIPMENT DESCRIPTION	**WITH CAPACITOR**			**WITHOUT CAPACITOR**		
	R-PHASE	**Y-PHASE**	**B-PHASE**	**R-PHASE**	**Y-PHASE**	**B-PHASE**
BLOWER MOTOR-1						
COMPRESSOR 1.1						
COMPRESSOR 1.2						
CONDENSER 1.1						
CONDENSER 1.2						
HEATER-1						

AC PLANT UNIT-2 CURRENT READING						
EQUIPMENT DESCRIPTION	**WITH CAPACITOR**			**WITHOUT CAPACITOR**		
	R-PHASE	**Y-PHASE**	**B-PHASE**	**R-PHASE**	**Y-PHASE**	**B-PHASE**
BLOWER MOTOR-2						
COMPRESSOR 2.1						
COMPRESSOR 2.2						
CONDENSER 2.1						
CONDENSER 2.2						
HEATER-2						

CONFIRMING/NON CONFIRMING

SIGN	
NAME (RITES/RCF)	

Checksheet-P8

STAGE-IX, UNDERFRAME OF LWFAC-LHB FIRST CLASS AC COACH

Variant: First AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S.NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
1. 750V IV COUPLER			
1.1	To ensure for providing of Silicone Sealants at the Rubber hose and Conduits joints.		
1.2	To ensure Both side **ZS** coupler Dummy socket to be provided.		
1.3	Check all bolts of Mounting of IV coupler of Feeder junction box/**IV** coupler dummy socket		
1.4	To ensure proper closing of **IV SOCKET** limit switches in Feeder junction box.		
1.5	To ensure for providing of double earthing in all Feeder junction box.		
1.6	To ensure IV coupler length		
1.7	To ensure **IV COUPLER** Safety Chain is provided with Rubber sheet protection.		
1.8	Check the Power cable entering in junction box sharp edge protection, crimping and tightness of the connection.		
2. LOCAL MAIN SUPPLY SOCKET			
2.1	To ensure for providing of the stenciling of phase sequence		
2.2	Check water drain arrangement in LMS socket.		
2.3	Check opening and closing of LMS outer hinge Metal cover.		
2.4	To ensure Both sides LMS Mounting Plate all bolts to be checked.		
2.5	To ensure LMS inside painting to be done.		
2.6	Ensure the both LMS socket R, Y, B, N and E cable size,		

	crimping and tightness		
3. NEGATIVE AND POSITIVE FUSE BOX			
3.1	Ensure the cable size, Crimping, tightness with proper hardware in Negative and Positive fuse box		
3.2	Check Both fuse box earthing with proper grinding.		
3.3	Ensure the Cable bending radius should be more than 25mm		
4. BATTERY BOX & BATTERY			
4.1	Checks inter cell connections and end cell connections, tightness.		
4.2	To ensure for providing of petroleum jelly at cell terminals		
4.3	To ensure Battery Box earthing to be done with proper grinding.		
4.4	To ensure Battery Box Dummy Holes to be closed.		
5. 60 or 55+5 KVA TRANSFORMER			
5.1	Ensure the both Primary and Secondary cable size, Crimping, tightness		
5.2	To ensure Transformer doubles earthing to be provided & tightness.		
5.3	To ensure Transformer door to be closed and all the bolts to be tightened.		
5.4	To ensure 60 or 55+5 KVA T/F Double earthing to be provided with proper grinding.		
6. 5 KVA TRANSFORMER			
6.1	Check cable primary and secondary side cable tightness.		
6.2	To ensure 5 KVA T/F Double earthing to be provided with proper grinding.		
6.3	To ensure Transformer door to be closed and all bolts to be tightened.		
7. WRP			
7.1	To ensure WRP Double earthing to be provided with proper grinding.		
7.2	Check any obstruction to do the cable connection.		
7.3	Check the cable connection		
8. CAPACITOR BANK			
8.1	To ensure for providing of double earthing for Capacitor Bank with proper grinding.		
8.2	To ensure in capacitor bank all cables are to be secured.		
8.3	Check any obstruction to open Capacitor Bank cover.		
8.4	Check cable tightness in all WAGO terminals.		

8.5	To ensure Capacitor bank door are closed.		
9. WHEEL SET EARTHING			
9.1	To ensure Earthing Cable to be connected to coach body and tightened with proper grinding.		
9.2	To ensure Both bogies earth insulator bush fixed properly		
10. DUMP VALVE			
10.1	To ensure for providing of double earthing for dump valve with proper grinding.		

General remarks (If Any):

CONFIRMING/NON CONFIRMING

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	

Checksheet-P9

STAGE-IX WSP (WHEEL SLIDING PROTECTION SYSTEM) OF LWFAC LHB FIRST CLASS AC COACH

Variant: First AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S. No.	WSP COMMISSIONING CHECKSHEET	RCF REMARK	RITES REMARK (OK/NOT OK)
1.	Ensure that the WSP input supply is controlled through S1F63 and S1F65 MCBs - 2-pole 6A MCBs for +VE and –VE respectively		
2.	Check **K-05** off relay timer **(10 min setting).**		
3.	To ensure that when FP pressure is **0 kg/ Cm^2** the pressure limit switch will not operate and supply will not come in WSP microprocessor. As soon as FP pressure reaches beyond **1.8 kg/Cm^2** the pressure limit switch will make the contact and supply will reach to microprocessor.		
4.	To ensure the WSP microprocessor will display **99(F)/9999 (K)/9.9 (E & J) F-FAIVELY, K-KNOOR, E-ESCORTS, J-JUPITER,** which shows system healthy?		
5.	To ensure WSP microprocessor working are checked by putting fault in sensor cable and dump valve by shorting/opening the wore of sensor cable connection and dump valve connection one by one, fault code showing in display of microprocessor with respect to sensor cable and dump valve should be as per WSP testing format.		
6.	To ensure for clearing of all faults by pressing as per respective microprocessor, microprocessor should display healthy code.		
7.	Check the dump valves. After applying brakes press button S2 (i.e. Test mode) dump valves will operate sequentially.		

S. No.	WSP COMMISSIONING CHECKSHEET	RCF REMARK	RITES REMARK (OK/NOT OK)
8.	To ensure fault/activity data recorder function will be checked by downloading data. Date and time of fault/activity verified.		
9.	Check the cable layout of speed sensor as per ICF drawing **No. ICF/SK3-3-5-046.**		
10.	Check the Mounting Bracket for Junction box as per ICF drawing no. **AAD11918, Alt-d** and **AAA11835, Alt-f.**		
11.	To ensure that no hole will be found in Junction box.		
12.	To ensure the Air brake wires should be properly connected in panel and in pressure limit switch at air brake unit.		
13.	Check the Ferrule no. as per vendor drawing. printed-shrinkable ferrule provided.		
14.	Check WSP microprocessor panel should be mounting hardware proper tighten fitment.		
15.	Check WSP unit body earthing.		
16.	Check the WSP wire dressing.		
17.	Ensure the WSP name plate and rating.		

General remarks (If Any): -

CONFIRMING/NON-CONFIRMING

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	

Checksheet-P10

STAGE-IX PA (PASSENGER ANNOUNCIATOR) OF LHB AC COACH

Variant: First AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S. No.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
1.	To ensure the **PA** amplifier fixing and connection.		
2.	To ensure all the speakers fixing and connection.		
3.	Check the **PA**-coupler and socket fixing at vestibule area and connection.		
4.	Ensure the PA input supply is controlled through S1F38 2-pole 10A MCB.		
5.	Ensure the PA system & performance with local power ON/OFF and volume adjustment		
6.	Check the performance of all speakers and the individual volume adjustment in the cabin area.		
7.	Ensure the amplifier name plate and rating.		
8.	Check the PA wire dressing.		

General remarks (If Any):-

CONFIRMING/NON CONFIRMING

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	

Checksheet-P11

ELECTRICAL SAFETY CHECKS OF AC COACH

Variant: First AC
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES inspector:
Name of RCF officials:

Note- RCF check - 100%, RITES check - 5%.

S.no.	ELECTRICAL EQUIPMENT	SAFETY CHECKS TO BE DONE	RCF REMARK	RITES REMARK (OK/NOT OK)
		TESTING		
1.	**Battery& DC circuit**	1. Check of **40 A HRC** fuses in both fuse boxes, and **25 A** HRC fuses in SBC for positive & negative circuit provided. 2. Check interconnected loop in between each battery blocks. 3. Check MCBs of suitable rating as per specifications are provided separately (tested) for each circuits viz. **PACIL** (Alarm Ckt. **(6A)**, PA system (**10 A**), **WSP (K05 Relay timer**), **RMPU** control (**6 A**), and Pump control **(6 A)** provided. 4. Check insulation testing meter showing through push button switch **+ve** & **-ve** is provided in panel & being tested.		
2.	**Regulated Battery Charger (RBC)**	1. Check the provision 3P **20A MCB** provided on input and 40A fuse is provided output in RBC. 2. Check DC polarity in RBC. 3. Check 3P 20A MCB for RBC and 1P 25A MCB for EBC at SBC		
3.	**FDS/FSDS**	1. Check **2 A MCB** provided in SBC. 2. Check output of MCB at terminal no 322 and 323. 3. Check connection of **FDS/FSDS** at terminal no **322**and **323** in SBC.		
4.	**Transformer**	Check HRC fuses in input and output		

S.no.	ELECTRICAL EQUIPMENT	SAFETY CHECKS TO BE DONE	RCF REMARK	RITES REMARK (OK/NOT OK)
	60/55+5 KVA	at SBC rating of **125 A** and **100 A** respectively provided.		
5.	**5 KVA transformers for charging socket.**	Check MCB of rating **16 A** 3P in primary and **25 A** 4P in secondary in **SBC**.		
6.	**Charging sockets for AC coach**	Check **16 A** MCB for **R,Y,B** circuit resp. in SBC provided.		
7.	**Light Fittings for AC coaches**	Check **6A MCB** for doorway/gangway light, cabin area, berth reading light and night light circuit respectively in **SBC**.		
8.	**Pump (WRA)**	Check **1.6 A MPCB** in **SBC and current setting should be 1.1 A**		
9.	**Lavatory Exhaust fan**	Check **0.63 A MPCB** in **SBC and current setting should be 0.5 A**		
10.	**Pantry MCB's for AC coaches**	Check **MCB** of proper rating for Water boiler **(16A),** Soup boiler **(6A),** Hot case **(10A),** deep freezer **(6A)** and bottle cooler**(6A)** in **SBC**		
11.	**RMPU**	1. Check **MPCB** rating for Blower **(2.5-4 A),** condenser fan **(1.6-2.5A),** compressor **(6.3-10A)** in SBC and current setting should be 2.8 A, 1.8 A, 10 A respectively 2. Check MCB rating for heater **(16A).** 3. Check availability of ESTI bulb. 4. Check tripping of **OHP** below 65 deg. C. 5. Check Low pressure tripping- **35 +/-15** Psi. 6. Check High pressure tripping- **425 +/-15** Psi.		
12.	**Insulation failure relay.**	1. Check the **A6 (110 V AC)** and **A7 (415 V AC)** insulation monitoring relay are working properly or not by test lamp. 2. Check **110 V DC IR** failure by pressing **110 V DC** IR failure push button and by test lamp.		
13.	**200 VA control transformer in AC Coach / Power Car**	Check **2A-1.2KV AC** fuses for primary and **2 A-500 V AC** in secondary		

General remarks (If Any):

CONFIRMING/NON CONFIRMING

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	

Checksheet-P12

Calibration record and Competency Check

1. Training and Competency Matrix for manpower deployed -Check if staff deployed for Model rake in each section has necessary Training and competency and record in format below-

S. No.	Name of Supervisor/ Technician	Section	Training & Competency on Crimping as per scheme recommended vide RITES letter No. RITES/RCF/Safety Audit/24 dated 16.07.2025 - Imparted/ Not Imparted	Training on Manufacturing & Testing Revised check list imparted/ not imparted

2. Check the validity of Calibration certificates of Testing instruments used in Stage and Final Testing. No Testing results to be accepted if all instruments used in preparation of Model rake are not calibrated.

S. No.	Section / Shop	Name of Test instrument used for Stage/ Final Testing	Calibration Certificate due date	Calibration Certificate Valid/ Expired
1				
2				
--				

RCF REPERESENTATIVE SIGNATURE & DATE		RITES REPERESENTATIVE SIGNATURE & DATE	
NAME		NAME	