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: AC 3 Tier
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/AC3T/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/AC 3-Tier Rev.0 Annexure-A, 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	2,5	Compressor Motor MPCB rating 7A - 10A. Setting at 10A.	Check MPCB Rating in Design Document and record.		

S. No. of Annex A	S. No. of Audit	Action Points	Inspection points	RCF observations	RITES observation
3	3,6	Blower/ Evaporator MPCB rating - 2.5A - 4A. Setting at 2.8A	Check MPCB Rating in Design Document and record.		
4	4,7	Condenser Fan MPCB Rating 1.6A - 2.5A. Setting at 1.8A.	Check MPCB Rating in Design Document and record.		
5	8	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.		
8	11 to 16	MCB of Lighting circuits	Check MCB Rating in Design Document and record.		
9	17	Fire Detection circuit - MCB Rating 2 Amp	Check MCB Rating in Design Document and record.		
10	18	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 at Section 2.1 of Audit Report (Ref.-i), to check that minor discrepancies have been corrected as reproduced below-

Sr no. of Audit	Observation based on RCF/RDSO drawings/Harness specification and specification of Electrical and protection scheme	RCF observations	RITES observations (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 &		

Sr no. of Audit	Observation based on RCF/RDSO drawings/Harness specification and specification of Electrical and protection scheme	RCF observations	RITES observations (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,, 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 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).		

Sr no. of Audit	Observation based on RCF/RDSO drawings/Harness specification and specification of Electrical and protection scheme	RCF observations	RITES observations (Corrected/Not Corrected)
	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) sheets 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 & 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		

Sr no. of Audit	Observation based on RCF/RDSO drawings/Harness specification and specification of Electrical and protection scheme	RCF observations	RITES observations (Corrected/Not Corrected)
	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 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 4x 6 sqmm. cable		
13	a) As per Harness spec 253, Rev J, Harness no 32C for jumper and branch wiring (sheet 11 of 16) 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 253, Rev J, Harness no 32B for jumper and branch wiring (sheet 11 of 16) 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 AC-3 Tier (LE70202. Alt-d, sheet 5 of 5) c) As per Harness spec 253, Rev J, Harness no 32B for jumper and branch wiring (sheet 11 of 16) 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 AC-3 Tier (LE70202. Alt-d, sheet 5 of 5) d) As per Harness spec 253, Rev J, Harness no 32C		

Sr no. of Audit	Observation based on RCF/RDSO drawings/Harness specification and specification of Electrical and protection scheme	RCF observations	RITES observations (Corrected/Not Corrected)
	for jumper and branch wiring (sheet 11 of 16) 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 253, Rev J, harness no 32C for jumper and branch wiring (sheet 11 of 16) terminal no S1X1 243,244,245 used for 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 253, Rev J, harness no 32B for jumper and branch wiring (sheet 11 of 16) 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 AC-3 Tier (LE70202. Alt-d, sheet 5 of 5)		
14	As per Harness spec 253, Rev J, Harness no 1 to 9 for jumper and branch wiring (sheet 02 of 16) limit switches are shown without any number however it should be LS1 to LS9 (A s per drg no LE70202, Alt d, sheet 2 of 5).		
15	As per Harness spec 253, Rev J, Harness no 19 to 27B for jumper and branch wiring (sheet 03, 04, 05 of 16) lights FLD, FLE, NL, FLS and LS are shown without any number. Without any numbers identification of light circuit is not feasible.		
16	As per Harness spec 253, Rev J, Harness no 9A for jumper and branch wiring (sheet 02 of 16) FLE & NL are shown without any number however it considered as FLE-9 and NL-9 (A s per drg no LE70202, Alt d, sheet 1 of 5) verified from ferrule number from harness spec and in drg.		
17	As per Harness spec 253, Rev J, Harness no 45 for jumper and branch wiring (sheet 14 of 16) item name shown Deep freezer, however Refrigerator is shown 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,		

Sr no. of Audit	Observation based on RCF/RDSO drawings/Harness specification and specification of Electrical and protection scheme	RCF observations	RITES observations (Corrected/Not Corrected)
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, Exhaust fan (S11M1) for Pantry has been shown but in harness specification EDTS 253, Rev J, wiring harness and terminal has not been shown at Harness 48/48A		
19	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 LW70202, alt-d, sheet 2 of 5)		
20	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 are not shown for accidental emergency light circuit, however Terminal nos. 283, 284 are shown in drg LW70202 alt d, sheet 4 of 5. In addition to this in scheme drawings supply is connected for AEL with 110V DC however as per circuit diagram (drg. LW70202 alt d, sheet 4 of 5.) it is shown as 110 V AC.		
21	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.		

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/AC 3-Tier Rev.0 Annexure-A, 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. of Ref.(i)	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
25	14	Sheet-2/S.No 8, Sheet-1/Clause 2.2 and Sheet 4/Clause 3.21	Check during coach inspection SBC rear side cable RVH and RBC terminal box cable entry area. There should not be any joint in RVH as per **SKED no. 1022** issued. **Check SKED at this stage.**		
33	22	Sheet-1/Clause 2.12 and Sheet 4/Clause 3.17	Check during coach inspection the provision of Cage Clamp Terminals with glass fuses of 1A in JB of all cabins as per **CAI No. ED_CAL_033_2024 dated 02.04.2024.** **Check CAI at this stage.**		
38	27	Sheet-1/Clause 1.2	Check during coach inspection, Identification number for WRP controller, S1A08 DC/DC converter as per **corrigendum No.10 of harness spec. no. EDTS 253 Rev. J Corr.9.** **Check corrigendum at this stage.**		
42	31	Sheet 1/Clause 9.1(a)	Check during coach inspection, proper tightening of mounting clamp on 70mm conduit pipe near RBC, Dump Valve-2 & 4 as per under frame **modified drawing no. 1.10113.0.76.110.004.** There should not be any shearing. **Check drawing at this stage.**		
49	38	Sheet 1/Clause 3.7	Check during coach inspection, provision of earthing terminal point marking sticker at Negative fuse box as per		

S. No. of Annex A	S. No. of Audit	Clause No. of Ref.(i)	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
			drawing no. **LW71001 alt J. and LW71002 alt J. for +ve and -ve** respectively and ensure connection has been done after removal of paint. **Check drawing at this stage.**		

6. Check for issuance of following documents by RDSO/RCF. (Please refer Table 6.1 Looping issues in SBC of Document No. RCF/AUDIT/ISA/AC 2-Tier Annexure-A, Rev.1 dated 05.07.2025 for AC 3-Tier variant also)

SN of Annex A, Para 6.1	S. No. of Audit	Clause no.	Operative part of Check	Observation by RCF official	Observations by RITES officials (Accepted/ Not Accepted)
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 modification sheet**. -Also check on coach for implementation		
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. - If yes, check on Coach for implementation		

Part B- Manufacturing Inspection Checksheet - Quality

Check Sheet-Q1

Variant: **AC 3 Tier**
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 for Cabling and Harness (EDW 003, EDW006, EDW007, EDW009)
iv) RITES Audit Report No. QA/NR/ISA/RCF/AC3T/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/AC 3-Tier Rev.0 Annexure-A, dated 24.07.2025.

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
11	1	1.2 of Sheet-1/Clause and Sheet 2/S.no 9	Check provision of exhaust fan earth cable ferrule as per harness no. 48 & 48A of EDTS 252 (Latest revision) & And also check internal ferrules. b) Check provision of Exhaust fan cable PMA jacket.		
13	2	Sheet-1/Clause 3.4	Check proper size hardware for mounting of Exhaust fan at PP and NPP end.		
14	3	Sheet 1/Clause 2.1	Check on sample basis, E-beam cables provided with latest revision (Rev-04) for Compressor and heater cable, CS cables, Capacitor bank		

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
			cables, Transformer B phase input cable, Cabin 9, FLE cable, Brake unit pressure switch cable.		
16	5	Sheet-1/Clause 1.2 and Sheet 2/S.no 9, Sheet-7/Clause 3.2.4, 3.1.17,	a) Check provision of Heat shrink sleeve on Transformer Y phase output cable at 100 A fuse. b) Check provision of ferrules on all cables of RBC AC input and DC Output cables.		
28	17	Sheet-1/Clause 2.2 and Sheet 4/Clause 3.21	Check jumper wiring PVC conduits in Cabin 1 & 5 JB for coach lighting in the side wall area. There should not be any damage in PVC pipe.		
29	18	Sheet-1/Clause 2.2 and Sheet 4/Clause 3.21	Check branch wiring Polyamide conduits for coach lighting in the roof area. There should not be any damage in RVH.		
30	19	Sheet 1/Clause 2.15 & 5.3 and Sheet 4/Clause 3.3	Check 40 mm PVC conduits in the ceiling area for RMPU wiring. There should not be any sharp edges.		
31	20	Sheet-1/Clause 2.1	Check alarm chain pull system for different makes. There should be uniform color code cables for internal wiring of their system to avoid any mismatch during connection.		
33	22	Sheet-1/Clause 2.12 and Sheet 4/Clause 3.17	Check provision of Cage Clamp Terminals with glass fuses of 1A in JB of all cabins as per CAI No. ED_CAL_033_2024 dated 02.04.2024.		

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
35	24	Sheet 1/Clause 5.4	Check proper heat shrinking of sleeves in bottom side cables of Cabin 7 JB.		
38	27	Sheet-1/Clause 1.2	Check Identification number for WRP controller, S1A08 DC/DC converter as per corrigendum No.10 of harness spec. no. EDTS 253 Rev. J Corr.9.		
42	31	Sheet 1/Clause 9.1(a)	Check proper tightening of mounting clamp on 70mm conduit pipe near RBC, Dump Valve-2 & 4 as per underframe modified drawing no. 1.10113.0.76.110.004. There should not be any shearing.		
44	33	Sheet 1/Clause 10.2 and Sheet 4/Clause 3.13	Check provision of rubber beading at RBC cable RVH securing clamp		
46	35	Sheet 1/Clause 5.4 and Sheet 7/Clause 3.1.5, Sheet 1/ Clause 3.2 and Sheet 2/s.no. 10	Check proper crimping at WRP earthing cable. There should not be any excess strands visible outside. Strands should be visible through inspection hole. - verify the size of WRP earthing cable as per specification. - Check earthing connections have been made after removal of paints. - Check proper hardware for WRP mounting has been used. -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)
			of earth cable. - check any modification has been issued by RDSO for earthing cable termination inside the terminal box so that earth wire is not punctured out through the conduit.		
49	38	Sheet 1/Clause 3.7	Check provision of earthing terminal point marking sticker at Negative fuse box as per drawing no. LW71001 alt J. and LW71002 alt J. for +ve and -ve and ensure connection has been done after removal of paint.		
50	39	Sheet 2/S.no 8, Sheet 1/Clause 2.2 and Sheet 4/Clause 3.21	Check Negative fuse box to Battery box cable RVH. There should not be any joint in RVH as per SKED no. 1022 issued on 20.07.2025. There should not be any dummy hole.		
55	44	Sheet 1/Clause 5.4 and Sheet 7/Clause 3.1.5	Check proper crimping at Dump valve 1 body earth. There should not be any excess strands visible outside.		
57	46	Sheet 1/Clause 9.1	Check Positive fuse box rear side (net 1 & 2) cable tray joint area. There should not be any gap.		
62	51	Sheet-1/Clause 2.7,2.13 & 5.3 and Sheet-2/s.no. 8	Check Pantry Cable are secured with PMA RVH/Jacket.		
63	52	Sheet-	Check ferrules and		

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
		1/Clause 1.2 and Sheet-2/s.no. 9	connections of all pantry equipment cables in SBC. There should not be any handwritten ferrules. Connections should be per the applicable drawing.		

Check Sheet-Q2

Inspection Checksheet on Work instruction for Cabling and Harness

Variant: **AC 3 Tier**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES Inspector:
Name of RCF officials:

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

Reference -

i) RCF Work Instructions for Cabling and Harness (EDW 003, EDW006, EDW007)
ii) RDSO Spec No. RDSO/PE/SPEC/AC/0138-2009, Rev-1
iii) EDTS 252 Rev J, Corr 10.
iv) RDSO specification no. ELRS/SPEC/ELC/0019, (Rev 4) or Latest.
v) RITES Audit Report No. QA/NR/ISA/RCF/AC3T/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/AC 3-Tier Rev.0 Annexure-A, dated 24.07.2025.

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
17	6	Sheet-2/s.no. 8	Check the transformer output cables of all R, Y, and B phases at the 100 A fuse. Ensure there are no sharp bends in the cables.		
20	9	Sheet 2/s.no. 8 and Sheet-4/Clause 3.2	Check provision of PMA jacket for 60 KVA Transformer all cable and RBC Input and output cables routed inside SBC.		
21	10	Sheet-2/s.no. 8	Check routing of RVH on SBC rear side. There should not be any bulging.		
23	12	Sheet-2/s.no. 8, Sheet-1/Clause 3.1(iii)	Check proper route of cables entering inside the SBC rear side Disconnecting & earthling device and		

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
			verify the provision of fire barrier on dummy hole area.		
24	13	Sheet-2/s.no. 8	Check proper routing of RVH on top side of SBC, PP and NPP doorway net 1 and 2 near Fresh Air grill. There should be no hanging and bulging and should be properly secured.		
25	14	Sheet-2/S.No 8, Sheet-1/Clause 2.2 and Sheet 4/Clause 3.21	Check SBC rear side cable RVH and RBC terminal box cable entry area. There should not be any joint in RVH as per SKED no. 1022 issued by RCF.		
32	21	Sheet 2/s.no. 7	Check for proper crimping of CS neutral loop cable in Cabin 3 JB connection.		
41	30	Sheet 2/sr.no. 8	Check rubber hose at PP net 1 feeder JB rear side 750V cable. There should not be excess twist.		
51	40	Sheet 2/s.no. 7 and Sheet 4/Clause 3.23	Check provision of proper size hardware for Capacitor bank body earth cable mounting. - Check provision of rubber beading at Capacitor bank cable RVH securing clamp.		
56	45	Sheet 2/s.no. 8	Check Through box inside cables to be secured with PMA jacket and routing should be proper. - Check Through box cable entry area RVH. Routing should be proper and there should		

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
			not be nay bulging/ joint.		
58	47	Sheet 2/s.no. 8	Check proper routing of RVH near water tank. There should not be any RVH outside of the cable tray		
60	49	Sheet 2/s.no.8	Check proper routing of control cable RVH at NPP net 1 feeder JB rear side.		
61	50	Sheet-2/s.no. 7	Check connection of Fire circuit cable as per respective drawings of RDSO spec no. RDSO/PE/SPEC/AC/0184 Rev.1.		

Check Sheet-Q3

Inspection Checksheet on Work instruction for Precaution to be taken while laying of cables

Variant: **AC 3 Tier**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES Inspector:
Name of RCF officials:

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

Reference -

i) RCF Work Instructions for Cabling and Harness (EDW007)
ii) RITES Audit Report No. QA/NR/ISA/RCF/AC3T/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/AC 3-Tier Rev.0 Annexure-A, dated 24.07.2025.

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
26	15	Sheet-4/Clause 3.10	Check proper size hardware for mounting of 20mm conduit pipe clamp on SBC rear side-wall area		
27	16	Sheet 4/Clause 3.17	Check protection of cable insulation while laying cables in the carline area		
39	28	Sheet-4/Clause 3.3	Check provision of rubber beading on edges of SBC door		
48	37	Sheet 4/Clause 3.23	Check provision of proper size hardware for NPP LMS socket fixing and earth mounting and Negative fuse box body earthing		

Check Sheet-Q4

Inspection Checksheet Work instruction of for Crimping of Cable Ends and Cable Terminations EDW 0006 version 3.0

Variant: **AC 3 Tier**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES Inspector:
Name of RCF officials:

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

Reference -

i) RCF Work Instructions for Cabling (EDW006)
ii) EDTS-200, Rev nil, Am-2, Cor-3 or (Latest);
iii) EDTS-201 Rex 'A', Am 1. Cor-2 or (Latest);
iv) IEC/EN-60352-2-2006 A1-2013;
v) IEC-61238-1;
vi) BS 7609:1992
vii) RDSO specification no. ELRS/SPEC/ELC/0019, (Rev 4) or Latest.
viii) RITES Audit Report No. QA/NR/ISA/RCF/AC3T/01 REV 0.0 May 2025.
ix) RCF letter no. RCF/HSQ/ED/2129(Audit) dated 26.07.2025 issued with Document No. RCF/AUDIT/ISA/AC 3-Tier Rev.0 Annexure-A, dated 24.07.2025.

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
15	4	Sheet-7/Clause 3.1.2	Check Crimping on sample basis on Transformer Y phase output cable at 100 A fuse. Strands should be visible through inspection hole.		
37	26	Sheet-7/Clause 3.1.5	Check crimping of S1F91 and S1F93 4A fuse cables. It should be proper and no excess insulation to be removed.		
40	29	Sheet 7/Clause 3.2.1 and	- Check provision of proper hardware for mounting of PP net 1		

S. No. of Annex A	S. No. of Audit	Clause No.	Operative Part of relevant clause	RCF Observations	RITES Observations (Accepted / Rejected)
		3.2.4	feeder box earth cable. - Check provision of proper surface contact of crimping socket on stud.		
45	34	Sheet 7/Clause 3.2.4	Check proper placement/tightening of crimping socket at 60 KVA Transformer LHS body earth mounting. Check provision of proper size hardware		
52	41	Sheet 7/Clause 3.1.5	Check proper crimping at Positive fuse box body earth cable. There should not be any excess insulation removed.		

CheckSheet-Q5

Testing Stage:

Ref.

i) RITES Audit Report No. QA/NR/ISA/RCF/AC3T/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/AC 3-Tier Rev.0 Annexure-A, dated 24.07.2025.

Variant: **AC 3 Tier**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES Inspector:
Name of RCF officials:

<table>
<tr><th>SN of Annex A, Sec 4</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</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 no RDSO/PE/SPEC/TL/0091-2016 (REV-1).</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>

SN of Annex A, Sec 4	S.No. of Audit	Clause no.	Operative part of Check	Specified Value	RCF Observations	RITES Observations
				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-Q3

Inspection of SBC

Ref-

i) RDSO Spec Revision ---- (to be obtained)
ii) RITES Audit Report No. QA/NR/ISA/RCF/AC3T/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/AC 3-Tier Rev.0 Annexure-A, dated 24.07.2025.
iv) RITES Audit Report No. QA/NR/ISA/RCF/AC2T/01 Rev.00 March 2025.
v) 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.

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

Variant: **AC 3 Tier**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES Inspector:
Name of RCF officials:

S. No. of Annex A	S. No. of Audit	Action Points	Inspection points	RCF observations	RITES observation
2 of Ref (iii)	2,5	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 Ref (iii)	3,6	Blower/ Evaporator MPCB rating - 2.5A - 4A. Setting at 2.8A	Refer work instructions. - Record actual setting on Coach as per RDSO letter no. EL/7.1.108/SBC/Main dtd. 10.06.2025.		
4 of Ref (iii)	4,7	Condenser Fan MPCB Rating 1.6A - 2.5A. Setting at 1.8A.	- Refer work instructions. - Record actual setting on Coach as per RDSO letter no. EL/7.1.108/SBC/Mai		

S. No. of Annex A	S. No. of Audit	Action Points	Inspection points	RCF observations	RITES observation
			n dtd. 10.06.2025.		
5 of Ref (iii)	8	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.		
8 of Ref (iii)	11 to 16	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.		
9 of Ref (iii)	17	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.		
10 of Ref (iii)	18	MCB of Sanitary Control circuits	Revision by RDSO as 3Amp. and MCB rating check as per RDSO letter no. EL/6.8.21 dtd. 04.09.2025.		
41 of Ref (v)	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 Ref (v)	2	B(i)	Check Make of Halogen free Polycarbonate / ABS duct. It should be Trinity Touch/ L&T/ Phoenix. Reject if approved make is		

S. No. of Annex A	S. No. of Audit	Action Points	Inspection points	RCF observations	RITES observation
			not provided.		
43 of Ref (v)	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 Ref (v)	4	m	Check Marking. Schematic diagram should be available as specified on SBC		
-	Gen1	-	Check that SBC provided is as per revised RDSO specification		
52 & 54 of Ref (v)	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 Ref (v)	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		

S. No. of Annex A	S. No. of Audit	Action Points	Inspection points	RCF observations	RITES observation
			implementation on SBC on shop floor.		
56 of Ref (v)	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-Q4

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

Variant: **AC 3 Tier**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES Inspector:
Name of RCF officials:

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

A. WSP

SN	Operative part of Check	Observation by RCF official	Observations by RITES officials (Accepted/ Not Accepted)
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	Observation by RCF official	Observations by RITES officials (Accepted/ Not Accepted)
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	Observation by RCF official	Observations by RITES officials (Accepted/ Not Accepted)
1	Check if line diagram, circuit		

SN	Operative part of Check	Observation by RCF official	Observations by RITES officials (Accepted/ Not Accepted)
	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.		

D. Any other equipment of this category

SN	Operative part of Check	Observation by RCF official	Observations by RITES officials (Accepted/ Not Accepted)
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 CHECKSHEET OF LWACCN LHB 3T AC COACH

Variant: **AC 3 Tier**
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/HT/LV PANEL			
1.1	Check the **SBC/HT/LV** 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	Check all power cables tighten.		
1.5	Check all **MCB, MPCB**, Contactor Cable tightness to be ensured.		
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 the **MMR** Fuses to be provided.		
1.12	Check the control transformer fuse to be provided.		
1.13	Check 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.		

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
1.17	Check the **SBC** area to be cleaned.		
1.18	Ensure **RC** filter earth cable is connected.		
1.19	Check **RC** filter fuses.		
1.20	Ensure capacitor bank connection		
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		

Note: - HV/LV Panel Only for Tejas Coaches: -

CONFIRMING/NON-CONFIRMING

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

Checksheet-P2

STAGE-III ROOF/PRECELLING CHECKSHEET OF LWACCN 3T AC COACH

Variant: **AC 3 Tier**
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 253,REV-J	RCF REMARK	RITES REMARK (OK/NOT OK)
1	To ensure DC 110 V +VE & -VE segregation as per **ED/CAI/033** date 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.		
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		

S. NO.	ITEM TO BE INSPECTED AS PER HARNESS SPEC NO.-EDTS 253,REV-J	RCF REMARK	RITES REMARK (OK/NOT OK)
	and Cables to be Secured with Cable tie.		
16	To ensure Charging Socket Cable Color code **(R,Y,B)** R-Ph **Net-1 Side** and Y, B **Net-2 Side.**		
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 all Pantry equipment wiring with ferrule. (in Rajdhani/Tejas coach)		
20	Check BRL wiring (in Rajdhani/Tejas coach)		
21	To ensure **LED** cables with proper ferrule to be provided.		
22	To ensure Room No**. 04** & **07**, PP & NPP IC door area 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.		
29	Check PA & PAPIS wiring (in Rajdhani/Tejas coach)		
30	To ensure Panel mounting and securing.		

General remarks (If Any):

CONFIRMING/NON CONFIRMING

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

Checksheet-P3

STAGE-III UNDER FRAME CHECKSHEET OF LWACCN LHB 3T AC COACH

Variant: **AC 3 Tier**
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 an **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 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	Check the alignment of cable Tray.		

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
1.13	To ensure no cable tray is infringing with brake pipelines.		
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 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. 60/55+5 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.		

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
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 gas kit.		
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 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.HT PANEL			
11.1	To Ensure PMA end fitting with gasket.		
11.2	To ensure LMS PMA Conduits to be secured properly.		
12. OTHER POINTS			

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
12.1	To check all the Under-frame laying cables ferrules		
12.2	Final /cross check with SIP data with actual coach		
13.PUSH PULL (IN TEJAS COACHES)			
13.1	Check the mounting and securing of push pull set.		
13.2	Check the RVH securing with clamp.		

General remarks (If Any):

CONFIRMING/NON CONFIRMING

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

Checksheet-P4

STAGE-III LOADING CHECK SHEET OF LWACCN LHB 3T AC COACH

Variant: **AC 3 Tier**
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).**		
1.8	To ensure Battery Box door to be closed properly.		
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.		
3. 5 KVA TRANSFORMER			
3.1	Check the fitment of **5 KVA** Transformer mounting with proper hardware's. **(12*40 mm)**		

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)**		
5. WRP PUMP CONTROLLER			
5.1	To ensure Pump controller to be mounted with proper hardware.		
5.2	Check pump controller dressing.		
6. CAPACITOR BANK			
6.1	Check the mounting arrangements of Capacitor bank with proper hardware's**. (12*40 mm)**		
7. RBC			
7.1	Check the mounting arrangements of RBC with proper hardware's. **(12*40 mm)**		
7.2	To ensure RBC 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 door to be closed and Bolts to be tighten.		
7.5	Check the **RBC** WAGO Connection.		
7.6	To ensure **RBC** unwanted dummy holes.		
8. PANTRY EQUIPMENT (RAJDHANI/TEJAS)			
8.1	Check the mounting arrangements of pantry equipment's with proper hardware's.		
8.2	To ensure pantry equipment's cover to be provided and Bolts to be tighten.		
8.3	Check any obstruction to do the cable connection.		
8.4	To ensure pantry equipment's door to be closed and Bolts to be tighten.		
9. HT/LV PANEL/SBC			
9.1	Check the mounting arrangements panel with proper		

S.NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
	hardware's.		
9.2	To ensure panel cover to be provided and Bolts to be tighten.		
9.3	Check any obstruction to do the cable connection.		
9.4	To ensure panel door to be closed and bolts to be tighten.		

General remarks (If Any):

CONFIRMING/NON CONFIRMING

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

Checksheet-P5

STAGE-IX, ROOF CHECKSHEET OF LWACCN LHB 3T AC COACH

Variant: **AC 3 Tier**
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.		
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		

S.NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
	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	To ensure for providing of Light fitting in all lavatories		
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	Check RMPU earthing.		
8. BRL FITTING (IN RAJDHANI/TEJAS COACH)			
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. PANTRY EQUIPMENT (IN RAJDHANI/TEJAS COACH)			
9.1	To ensure pantry connection.		
9.2	To ensure Pantry body earthing		

General remarks (If Any):

CONFIRMING/NON CONFIRMING

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

Checksheet-P6

RMPU (ROOF MOUNTED PACKAGE UNIT) CHECKSHEET FOR LHB AC COACH

Variant: **AC 3 Tier**
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 all motor and their running normally.		
9.	Check Digital Display unit and analog gauge, showing correct reading and compare both 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 psi**) (ii) **HP (425 +15/-15 psi)** and (iii) **OHP (65°C).**	(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		

S. NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
	measured for blower motor, condenser fan motor and compressor and heater. **Sheet to be attached. (Page no: 6 of 8)**		
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 that adjustable louver are adjusted to appropriate angle for fresh air intake. Later, fresh air data are recorded.		

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: **AC 3 Tier**
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:	
EMER. MODE:	
AUTO/MANUAL:	
CONTROL PRESSURE:	
DPS:	

COACH NO :	DATE:
EQUIPMENT CURRENT READINGS :	

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						
CONDENSOR 1.1						
CONDENSOR 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						
CONDENSOR 2.1						
CONDENSOR 2.2						
HEATER-2						

CONFIRMING/NON CONFIRMING

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

Checksheet-P8

STAGE-IX UNDERFRAME CHECKSHEET OF LWACCN LHB 3T AC COACH

Variant: **AC 3 Tier**
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.		
3. NEGATIVE AND POSITIVE FUSE BOX			
3.1	To ensure cable tightness in Negative and Positive fuse box		
3.2	Check Both fuse box earthing with proper grinding.		
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.		

S.NO.	ITEM TO BE INSPECTED	RCF REMARK	RITES REMARK (OK/NOT OK)
4.4	To ensure Battery Box Dummy Holes to be closed.		
5. 60/55+5 KVA TRANSFORMER			
5.1	Check cable primary and secondary side cable 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 60/55+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

WSP (WHEEL SLIDING PROTECTION SYSTEM) FOR LHB AC COACH

Variant: **AC 3 Tier**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES Inspector:
Name of RCF officials:

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

S. No.	WSP CHECKSHEET	RCF REMARK	RITES REMARK (OK/NOT OK)
1.	Check WSP Input (+VE) **MCB F-63** and Input (-VE) **MCB F-65** rating and input supply.		
2.	Check **K-05** off delay timer **(10 minutes 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.		
8.	To ensure Fault/Activity data recorder function will be checked by downloading data. Date and time of fault/activity verified.		

S. No.	WSP CHECKSHEET	RCF REMARK	RITES REMARK (OK/NOT OK)
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		

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: **AC 3 Tier**
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.	Check the **PA** system (passenger announcement) is working properly, all speakers in cabins and gangway areas are sounding with clarity or not.		

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: **AC 3 Tier**
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. 2. Check **25 A** HRC fuses in AC COACHES SBC for positive & negative circuit provided. 3. Check interconnected loop in between each battery blocks. 4. Check MCBs of suitable rating as per specifications are provided separately (tested) for each circuit viz. **PACIL** (Alarm Ckt. **(6A)**, PA system (**10 A**), **WSP (K05 Delay timer**), **RMPU** control (**6 A**), and Pump control **(6 A)** provided. 5. Check insulation testing meter showing through push button switch **+ve** & **-ve** is provided in panel & being tested.		
2.	**Regulated Battery Charger (RBC)**	1. Check **20A MCB** provided on input and 40A fuse is provided output in RBC. 2. Check DC polarity in RBC.		
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 60/55+5 KVA**	Check HRC fuses in input and output 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**.		

S.no.	ELECTRICAL EQUIPMENT	SAFETY CHECKS TO BE DONE	RCF REMARK	RITES REMARK (OK/NOT OK)
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**		
9.	**Lavatory Exhaust fan**	Check **0.63 A MPCB** in **SBC**		
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** of proper rating for Blower **(2.5-4 A),** condenser fan **(1.6-2.5A),** compressor **(6.3-10A)** in SBC. 2. Check MCB of proper 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		
14.	**Thermal Scanning**	SBC-Relay MCB/MPCB, Contactor & Contact point		

General remarks (If Any):

CONFIRMING/NON CONFIRMING

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

Checksheet-P12

FUNCTIONAL TEST OF LHB AC EOG COACH

Variant: **AC 3 Tier**
Coach / Shell No.:
Date/ Dates:
Locations:
Name of RITES Inspector:
Name of RCF officials:

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

SR. NO.		CHECKS	OBSERVATIONS	RCF REMARK	RITES REMARK (OK/NOT OK)
1		PRE C L G SOCKETS			
2	SWITCH BOARD CABINET INTERIORS	NET -1			
3		NET- 2			
4		DISCONNECTING & EARTHING DEVICE			
5		IR-110 DC	+ VE. . . . . -VE		
6		IR-415			
7		750 V CKT METERS			
8		110 V CKT METERS			
9		IR-MON. RELAY-A-6 FOR 110V AC			
10		IR MON. RELAY-A-7 FOR 415V AC			
11		750 V CKT METERS			
12		110 V CKT METERS			
13		PROTECTIVE RELAYS			
14		MCB's & MPCB			
15		CHNG/DISCHRG (AMP. MTR)			
16		INDICATION LAMPS			
17		K-5 CONT.LIMIT SWITCH			
18		SBC CFL			
19		FERRULE SHIRINKING			
20		PA AMPLIFIER			
21		FUSES AND THEIR RATING			
22		RC FILTER			

SR. NO.		CHECKS	OBSERVATIONS	RCF REMARK	RITES REMARK (OK/NOT OK)
23		750/415V 100 VA TRF			
24		S.B.C DRESSING			
25	AC PACKAGE	AC PACKAGE			
26		SET POINTS			
27		OHP			
28		LP HP GUAGE			
29		ESTI			
30	PUMP-CTLR	PUMP			
31		PUMP CTL			
32	BATT. CHARGERS	EM BATT CH			
33		REG. BATT CH.			
34		BAT. CH. INT.LOCKING			
35	COACH COMPARTMENT LIGHT	LAP TOP SOCKETS			
36		LIGHT SEQUENCE			
37		BERTH RDG LIGHTS			
38		W.C. LIGHT			
39		CEILING/NIGHT LIGHTS			
40		A.E.L LIGHT			
41		LAV. LIGHT			
42		PACIL			
43	OTHER	SAFETY LOOP			
44		PAS COUPLERS			
45		SPEAKERS			
46		CAPACITOR BANK			
47		5 KVA TFR			
48		60 KVA TFR			
49		LAV. EXHAUST FAN			
50		MTG OF EQUIPMENTS			

SR. NO.		CHECKS	OBSERVATIONS	RCF REMARK	RITES REMARK (OK/NOT OK)
51	COMPOSITE PANTRY (Only for Rajdhani Coaches)	HOT CASE			
52		BOTTLE COOLER			
53		DEEP FREEZER			

CONFIRMING/NON CONFIRMING

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

Checksheet-P13

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	