

Rail Coach Factory, Kapurthala

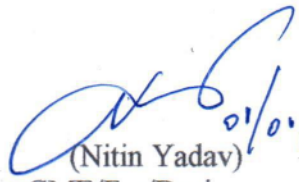
MD35131

Dated : 01.01.2026

Sub.: Issue of Purchase specification for Supply & Fitment of furnishing items for Bangladesh WJC coach.

Please find enclosed copy of following specification for information and necessary action at your end:

S.No.	Description	Specification No.
1.	Purchase specification for Supply & Fitment of furnishing items for Bangladesh WJC coach	MDTS-26424 Rev 01


(Nitin Yadav)
Dy. CME/Fur/Design

CME/QA CPLE CWE/Fur CMM/HSQ Dy. CME/LHB/HSQ
CWE/Shell Dy. CMM/Fur Dy. CMM/G CMT Dy. CPLE-I & II

SSE/Filing Section
SSE/Library, Mech Design
SSE/Record (Original copy)
SSE/Dev.

Copy for kind information to :-

CDE

Dy. CME/D Vendor/D Shell/D Bogie

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DOCUMENT CONTROL

Designation	Name (Sh.)	Signature	Role
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CDE	Lalit Kishore	<div>Lalit Kishore</div> <div>Digitally signed by Lalit Kishore Date: 2025.12.20 16:34:58 +05'30'</div>	Approved

LIST OF AMENDMENTS

S.No.	Amendment Date	Revision	Details
1	18.12.2025	01	Table-3 updated.

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0. Introduction

This specification covers scope of work as “Supply & fitment of complete furnishing of Bangladesh Railway coaches” by the firm on Turnkey basis, general requirements & other guidelines regarding execution of work.

1. Objective of this document

This document contains the techno-commercial requirements for enabling a tender and contract and post contract activities for the items included in the scope.

This document is to be read along with the other tender documents i.e.

1. Notice Inviting Tender
2. RCF Bid Document
3. GCC or other standard conditions as applicable.

2. Scope of the specification

This document is a purchase specification for enabling purchase and installation of interior furnishing items for

SN	Coaches	Layout No.
1.	AC Sleeper Car (WJC)	BA90003 Alt - d

The document specifies the requirements scope of supply, quality assurance requirements, prototype approval and inspection requirements, as supplied requirements, project schedule, payment milestones and guarantee warranty.

These have been framed keeping in view the lifecycle requirements of the items to be supplied.

This document is planned to be used as part of the tender specifications for the purchase of Furnishing item kits and turnkey interior furnishing for manufacture of coaches.

The Supplier shall be responsible for commissioning of these coaches at Bangladesh. All the items in the scope shall be manufactured as per relevant standards, and as per good engineering practices. Supply & apply of all items except the items indicated for RCF, shall be in the scope of the Supplier.

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3. List of standards and documents referred:

S. No.	Standard / Document	Title
1.	BA90003	Layout Drgs
2.	RDSO/PE/SPEC/TL/0091-2016, Rev.1 (or latest)	Specification
3.	EDTS215, Rev-Nil, AM-3	
4.	EDTS117, Rev-A	
5.	ELPS/TP/AC/01 ,JAN-94	
(i)	EL/SPEC/EOG/001.	Code of Practice
(ii)	RDSO/PE/O/0008-2005 (Rev.-0).	
6.	MDTS 082	Specification
7.	MDTS-116	Specification
8.	MDTS-156	Specification
9.	MDTS-237	Specification
10.	MMDTS-19020 Rev-3	Specification
11.	MMDTS-19021 Rev-2	Specification
12.	MDTS-086	Specification
13.	MDTS-075	Specification
14.	MDTS-095	Specification
15.	MDTS25267	specification
16.	MDTS44388	Specification

Table 1: List of referred standards& documents

4. Abbreviations / Terminology

S. No.	Abbreviations / Terminology	Expansion / Explanation
1.	BOM	Bill of Materials
2.	KXH	Indian Railways station code for Kapurthala
3.	LHB	Linke-Hofmann-Busch the TTT partner for RCF/KXH.
4.	QAP	Quality Assurance Plan
5.	RCF	Rail Coach Factory
6.	TOT	Transfer of Technology.
7.	IR	Indian Railway

Table 2: Abbreviations / Terminology

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5. Scope of work:

The scope of supply shall include Manufacture, supply, assembly and commissioning of furnishing kits. Quantity and supply conditions for scope of supply:

5.1. Items:

#	Description of items	AC Sleeper Car (WJC)	Additional requirements
1.	Layout drawing no.	BA90003-d	
2.	General Installation No.	BAE90003	
3.	Partition Frames & Pillar assembly	BAE10100	
4.	Sanitary Facilities complete	BAE63005	Complete MDTS – 214 Rev 13 is applicable
5.	Paneling and Ceiling complete	BAE42001	
6.	Interior fitting	BAE 64200	
7.	Hammer Box Arrangement	BAE64170	
8.	Curtains	LA64011	
9.	Fixing of Aluminium extrusion	BAE64500	
10.	Linen room arrangement	BAE61200	
11.	Layout of lettering inside	BAE64100	
12.	Z-web medium traffic scraper matting 11*965*1500	BAE41003 Al Nil , item 16	
13.	Set of return air box & duct connector	BAE 44912, 44913, 44861, 44938	
14.	Fixing cover for LED destination board	BAE 24008	
15.	Layout of doors for WJC	BAE56001 (Except item no. 1)	

Table 3: Mechanical Items

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Note: - 1) Make & model of touch & feel items shall be approved by RCF

1. Curtains
2. Taps
3. Mirror
4. Bottle Holder
5. Mobile Holder
6. Snack Table
7. Faucet, Soap Stand and Toilet Paper Holder

2) The scope of supply and installation covers major items and not limited to the above. The contractor shall supply the items as required for installation as per the scope of supply. Firm shall get prior approval of OGA, Make, drawings, specification and schematics from RCF before procurement.

3) Color scheme for each item shall be as approved by RCF.

5.2 Changes after prototype: -

Firm shall collect latest version of above-mentioned drawings. Firm shall manufacture furnishing items for prototype coach as per drawings detailed above & RCF design advice and assemble in RCF. Firm shall complete the work based on above information.

After manufacturing of prototype coach, firm shall then further incorporate changes noted in manufacturing of prototype coach. Changes shall be submitted to RCF for approval.

5.3 Installation

- (i) Contractor shall install all the items under the scope of work as per layout.
- (ii) Installation procedure and process for the items under the scope of work shall be submitted to RCF design for approval.
- (iii) All hinges, latches and locks used shall be of proven make viz. Southco / Dirak / Emka/ Sugatsune, as approved by RCF.
- (iv) Sealant of make M/s. Henkel, 3M & Sika shall be used and the same shall be approved by RCF.

5.4 As-built Design & Documentation

The contractor shall submit the following design documents and artefacts:

- 1) QAP
- 2) Sources of supply with approximate cost (more than one alternative indigenously sources)

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- 3) Operations Instructions & Installation manuals in soft and hard (3 copies) formats.
- 4) Maintenance manuals soft and hard (3 copies) formats.
- 5) Complete catalogue for items, fittings instruction including trouble shooting for easy maintenance by the Railways
- 6) Any other documentation, as identified and required, by RCF during the process of design development.
- 7) Operation and Maintenance manuals

Operation and Maintenance manuals/instructions with trouble shooting guides, shall be supplied for all the items under the scope of the contractor. Maintenance manuals /instructions shall be supplied in the form of A4 size book, giving exploded views of assemblies, 3D snap shots, part numbers, drawings & dimensions. Photos shall be incorporated to the manual for easy identification of the process. The manuals shall be submitted both in hard and soft copies and in a presentable manner. 15 hard. copies in each manual shall be supplied . This is prerequisite for claiming 100% payment

Note: All design and drawings of successful bidder as approved by RCF shall be the property of the RCF. RCF shall have the proprietary rights of these designs.

5.5 Accessories and hardware:-

The scope of supply installation testing commissioning includes all accessories including necessary hardware and consumables etc.

All items shall be proposed for approval by CDE/RCF during the design approval process. Only approved items shall be used.

5.6 Spares

The Scope of supply shall also include a set of spares for maintenance depot. The set of spares shall be as per following table :-

Sr. No.	Item Description	QTY.
1	Lav.Cocks& Fittings	1 coach set.
2	Health Faucet	1 coachset.
3	Lav. Mirrors	1 coach set.
4	Soap Dispenser	1 coach set
5	Roller Blind	1coach set
6	Bottle holder	1 coach set
7	Mobile Holder	1 coach set
8	Snack table	1 coach set

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The contractor shall provide these spares in individual vacuum sealed packing with labeling carrying the following details:

- 1) Name /Logo of the manufacturer.
- 2) Date of manufacture
- 3) Estimated shelf life
- 4) Parts list inside the packing with part/drawing numbers
- 5) Contact phone/address for support.

The list of items as spares shall be prepared post the design approval and approved by RCF as part of the design approval process.

5.7 Trial & coach commissioning in user railways

Contractor shall be responsible for validation during trial of coach & for coach commissioning in Bangladesh railways in all aspects.

6. Requirement of interior furnishing

- a) Any extra back piece required for the fitment shall be in scope of the firm.
- b) The firm shall submit the prototype for approval before regular supply.
- c) Firm to carry out activities listed in scope of work in Table as per indicated drawing.
- d) There shall not be any sharp corners, on items exposed to passengers
- e) Gap at the paneling joints to be avoided.
- f) Passenger amenity items such as bottle holder, mobile holder, mobile charging socket etc to be provided uniformly and aesthetically in all coaches, in an identical manner. In this regard, a template may be used to ensure the same relative location of various amenity items in all compartments.
- g) Care to be taken while fixing the stickers/notices, for proper alignment and uniformity to improve aesthetics
- h) It is to be ensured that Alarm pull box alignment is proper
- i) FRP modular toilet with improvements such as, additional slope in the floor along with improved drain arrangement shall be provided to ensure positive draining of water and also to prevent water accumulation in lavatories.
- j) All hinges in the toilet should be of reputed makes like Southco/Derek
- k) All joints of toilets shall be made leak proof
- l) Proper sealant to be used in lavatory, to withstand water jet cleaning, in service
- m) Proper sealing around the partition pillar on the floor, at the fixing point, to prevent water seepage to the under frame, and subsequently to the electrical equipment below under frame.
- n) To avoid water seepage, sealant shall be used at all joints on the floor and in the lavatory.
- o) Fire extinguishers and notices to be provided as per drawings linked to the mentioned drawings
- p) Efforts shall be taken by the Supplier to minimize visible screws. Further, it shall be easy to remove and fit the panels for maintenance. Aluminum extrusion can be used for proper panel fitment.

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7. Development& Documentation

The contractor shall submit the following design documents and artifacts:

1. Supplier shall study the drawings and make a Bill of Material (BOM). The same shall be submitted to RCF, for approval.
2. Sources of supply with procurement Invoices approximate cost (more than one alternative indigenously sources)
3. Operations Instructions & Installation manuals (3copies)
4. Maintenance manuals (3copies)
5. Complete catalogue for items, fittings instruction including troubleshooting for easy maintenance by the Railways
6. Supplier shall prepare a detailed Quality Assurance Plan (QAP) covering all the aspects of manufacturing, inspection etc., and to be submitted to RCF for approval.
7. Regular inspection will be carried out as per approved QAP and inspection plan.
8. Based on the drawings and other details, the Supplier shall make detailed work instructions for each process, with illustrations.
9. Bill of materials.
10. Sources of supply with procurement Invoices approximate cost (more than one alternative indigenously sources)
11. Operations Instructions & Installation manuals (3 copies)
12. Maintenance manuals (3 copies)
13. Complete catalogue for items, fittings instruction including troubleshooting for easy maintenance by the Railways
14. Supplier shall provide necessary data for Rolling stock certificate for the fully finished coach during delivery. In this regard, RCF will provide the template for rolling stock certificate to the Supplier. Supplier shall submit the filled rolling stock certificate to RCF during delivery of the coach.
15. Any other documentation, as identified and required, by RCF during the process of design development.
16. The contractor shall submit samples along with technical details and WTC, OEM details for following furnishing materials /fitting for finish/ color/shade/pattern/functionality
17. Notwithstanding approval, the contractor shall be completely responsible for the satisfactory performance of the coaches supplied.
18. The contractor's team in collaboration with RCF Team shall develop a QAP documenting the Hold and Witness points (stages, pre-dispatch, post-receipt and final inspections) for the project. The final QAP shall be approved by RCF Design.
19. Contractor shall manufacture the furnishing kits as per the approved designs and in

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conformance to the approved QAP and dispatch the same to RCF as per the advised schedule by Dy.CME/Design-II/RCF.

20. During furnishing of prototype coach, the supplier shall offer for stage wise prototype inspection.

Note: All design and drawings of successful bidder as approved by RCF shall be the property of the RCF. RCF shall have the proprietary rights of these designs.

8. Technical requirements

1. Tolerances of coach shell dimensions

Minor variations are likely in dimensions of the coach shell, due to fabrication tolerances. The same shall be taken into consideration.

2. Management of expected shock and vibration for improved NVH

During installation, it shall be ensured to control vibrations of items so that reliability/life is not affected and no damages take place.

3. Aesthetically pleasing and safe, anti-pilferage

All interior fittings should have aesthetic look and flush with the interior decor. Sharp edges shall be avoided. All the interior fittings should have anti-pilferage feature.

4. Accessories and hardware

The scope of supply installation testing commissioning includes all accessories including necessary hardware and consumables etc.

9. Assembly of furnishing kits at RCF/KXH

Work on the supplied furnishing kits, at RCF, shall be done as follows.

Note: The all furnishing kits assembly at RCF shall be done by contractor's manpower. Modifications required to be done on the supplied items for enabling assembly shall also be done by the contractor's manpower.

1. Installation of the furnishing kits on the prototype coach shells at RCF

The furnishing Contractor's team shall install the furnishing kits in the coach shells at RCF initially for one no. of prototype coach as per attached drawings. Material for the prototype shall be inspected by the concerned TPI agency. Firm shall call RCF representative to oversee the material inspection of prototype by TPI agency.

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2. Proto type Review

RCF and Contractor's teams shall jointly conduct detailed review. Observations shall be made during this exercise for improving the tolerances and quality of the final coach.

3. Review of modifications required in furnishing kits

The detailed observations and required modification information collected in the preceding activities shall be compiled and designs shall be updated in a collaborative process by the Contractor's and RCF teams.

4. Supply of change validation kits to RCF and fitment

The design changes planned in the preceding activities shall be implemented and the supply of remaining furnishing kits shall be made as per the updated designs.

The furnishing kits shall be supplied to RCF for assembly into shells as detailed earlier. Detailed observations shall be made for validating all design changes.

5. Go-ahead for series production of Coaches.

A go-ahead shall be given to the contractor for supply of remaining furnishing kits and its installation on the successful completion of the previous activities.

6. Series manufacture and supply of furnishing kits and its installation

Once the go-ahead for series production is granted, the contractor shall start series production and supply the furnishing kits and its installation as per the advised schedule.

The contractor's team at RCF shall install these kits into the coach shells as per the schedule advised by Dy.CME/Fur-I/RCF.

10. Quality Assurance and Inspection Plan**1. Quality Assurance, Tests & Documents**

A QAP framework document that been provided as an annexure to this document. The contractor shall use the same and prep area QAP to ensure requisite quality throughout the progress of the project.

The following table provides the overview of the system for quality assurance:-

Requirement Description	Requirement Detail	Remarks
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Quality Assurance Plan	<p>The manufacturer shall have detailed quality assurance plan. The plan shall be submitted for approval by the indenter/purchaser.</p> <p>The QAP document shall clearly document the following and control the test record formats.</p> <ol style="list-style-type: none"> 1. Control over out sourced products and processes 2. Testing of raw material and establishing it traceability. 3. Sampling Plan 4. Type Tests 5. Routine Tests 6. Acceptance Tests 7. Witness & Hold Points 	The QAP shall be submitted in PDF softcopy, digitally signed by the Head of Quality Department of the manufacturer.
Type Tests	These tests shall be conducted as per the QAP and are normally required in case of change of design.	There cords of the type tests shall be maintained by the manufacturer and shall be made available upon demand. These records shall be traceable and verifiable.
Routine Tests	<p>The manufacturer shall conduct routine tests as per the approved QAP.</p> <p>The records of tests conducted shall be verifiable upon request.</p>	<p>The records of the type tests shall be maintained by the manufacturer and shall be made available upon demand.</p> <p>These records shall be traceable and verifiable.</p>
Acceptance Tests	<p>The acceptance test shall be conducted on batches offered for delivery.</p> <p>The tests shall be conducted as per the details mentioned elsewhere in the document.</p>	<p>These shall be conducted by the consignee or their authorized agency prior to dispatch.</p> <p>All infrastructures required to enable acceptance tests shall be provided by the bidder /OEM.</p>

Table 6: Quality Assurance Tests & Documents

2. Inspection Plan

The inspection plan shall be proposed by the contractor based on the QAP framework

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provided as an annexure to this document. This plan shall be proposed as a set of the following events:

1. **Hold Points:** means an identified point in a process beyond which the Contractor must not proceed without written authorization or the release of a designated authority of RCF or 3rd party agency duly authorized by RCF.
2. **Witness Points:** means an identified point in a process where the Contractor must give prior notice to RCF to allow a designated authority of RCF or 3rd party agency duly authorized by RCF, to attend and witness the point in the work process should it choose to do so.
3. Prototype inspection of complete furnished coach shall be carried out by RCF/ RCF Nominated agency. The Supplier shall submit a detailed inspection plan to RCF for approval. Regular inspection (other than Prototype) of coaches shall be carried out by RCF/RCF authorized agencies, as per PO condition. All bought out items used in the coach shall be pre-inspected by Supplier/Reputed TPI. Supplier shall carry out internal inspection before offering for stage inspection to RCF/RITES/TPI. The Supplier shall offer adequate facility for carrying out inspection work at Supplier's premises.
4. The inspection plan as made by RCF to be followed for inspection.

3. Provisioning of facilities for working

The following shall be the distribution of provisioning of facilities for working during the course of the project.

4. Facilities to be provisioned by RCF at RCF/KXH

RCF shall provide the following provisions for enabling the contractor working at RCF premises only.

1. RCF shall provide limited space inside covered shed (not enclosed) to the contractor for keeping the material/consumables & tools required for day to day work.
2. RCF will provide suitable cranes with drivers, as available at RCF/KXH, for loading/unloading of furnishing items i.e. FRP modular lavatory.
3. RCF will provide bare coach shells fitted atop dip-lorries at the designated places for working. The necessary assistance for movement of shells to the designated places shall be done by RCF/KXH.
4. Power supply, Compressed Air and water etc. for working at site shall be provided by RCF/KXH.
5. Access to toilets and drinking water facilities shall be provided at RCF/KXH.

5. Facilities to be provisioned by the contractor

1. Contractor shall deploy a site office structure in ISO container(s) to function as

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site office and site tools and material storage. The site office shall be setup by the contractor and removed and taken away by the contractor at the end of the contract.

- a. The site office shall be self-contained, however electrical supply shall be provided by RCF at RCF/KXH.
- b. The maximum footprint of the site office and store shall be limited to 2x40'containers. Double stacking can be permitted where required.
- c. Special cranes & lifting tackles for deployment and removal of the containers shall be provided where needed.

2. Material handling equipment and fork lifters with drivers.

3. All workbenches, hand tools, IMTE's with their respective spares and consumables.

4. Ladders / Maintenance Access Platforms / Man lifts Hand trolleys / powered trolleys for transporting tools and IMTE's.

5. Any other tools & plants required for progress of work (and not explicitly listed in facilities provided by RCF/KXH shall be the contractor's responsibility.

Battery/Hydraulic operated Automatic Crimping Tools shall be used by the firm for crimping.

6. Safety and performance of tools and equipment of the contractor

All the tools and equipment e.g. drills, lighting arrangement inside the coach, work benches, ladder & working platform etc. as required to execute work as per scope of work shall be arranged by the contractor. The contractor shall use safe tools. Proper extension boards shall be used. Extension wires with joints and without insulation shall not be used. All the electrical power tools shall be equipped with proper electrical plugs.

Note: The contractor shall be responsible for keeping all assigned areas clean and injury free during the progress of the contract.

11. General Terms & Conditions

The following terms and conditions shall be applicable for the project. These are considered in addition to statutory, regulatory requirements and IRS standard conditions.

1. Sub-contracting and outsourcing

The contractor may sub-contract or outsource as per requirement. The following must be complied under these conditions:

1. Prior approval shall be taken from RCF/KXH.
2. The confidentiality of shared information is ensured.
3. The contractor shall remain responsible for meet all conditions and requirements of this

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contract, even in case of outsourced items and services. (The responsibility does not shift to the sub-contractor).

2. Follow RCF production plan

All shells to be furnished as per production plan of RCF; Supply schedule of each variant will be in staggered manner and will be manufactured and supplied as per schedule of supply advised by Dy.CME/Fur/RCF from time to time.

3. Safe keep during storage and transit

The contractor shall be responsible for safe transporting and loading/un-loading of supplied products. Adequate measures shall be taken to avoid damage to surface body shell surface during transport/storage.

4. RCF right to inspect and audit

RCF shall have the right to take item/assembly supplied by the firm into Audit for checking of parameters as per laid down procedure.

5. Handling of changes post approvals

Any changes from approved models, detailed part drawings, BoM, material specifications shall be done via a design approval process and be released for implementation with the approval of CDE/CEDE/RCF.

Any modification arising out of design review process shall be incorporated by the firm in bulk supply without any financial implication.

6. Sourcing of raw material and assemblies

Items to be procured from RDSO/RCF/ICF/MCF approved sources only as per applicable drawings and specifications. Any exception to be reported and approval taken.

7. Change in quantity distribution

The quantity distribution between successful bidders can be changed based on the performance in due course of the turnkey project. The firm lagging in completion of work or with poor quality shall be penalized with reduced quantity as decided by the competent authority.

8. Damage to RCF property

In case of any damage to RCF property, Coach Item or Shell during commissioning, the same shall be repaired/replaced by the Firm. In case any alternation in shell is required, prior approval of competent authority is required.

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9. Damaged to supplied/fitted materials

Any item supplied by firm damaged during commissioning or before the issue of Completion Certificate; the same is to be replaced by the firm as free of cost.

10. Requirement of Contractor's Personnel

A. Site Manager

Contractor shall deploy at least 1 dedicated site manager in charge of all activities at the work sites including workers safety and management of materials.

B. Identification

All contractors' workers shall be duly identified and shall always carry a contractor provided ID card on their person during their presence on the shop floor at RCF/KXH.

C. Qualifications of personnel

The contractor shall ensure that all personnel deputed are duly qualified and have adequate experience to handle the delegated jobs.

Note: The contractor shall provide the detailed CV of all personnel of their team deputed to work at RCF/KXH.

The contractor shall ensure that the technicians having experienced on working on first prototype coaches are not changed/replaced till the execution of whole contract.

11. Adequate man power

All coaches to be furnished as per production plan of RCF. Contractor shall depute adequate manpower to ensure the production targets.

12. Working dress and PPE

All contractors' workers shall be suitable attired and shall be wearing the requisite PPE's for the job.

The following minima PPE's shall be worn by all contractor personnel at all times during their presence on shop floors of RCF/KXH

1. Hardhat with contractor's logo/name
2. High visibility vest with contractor's logo/name
3. Industrial safety shoes

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Note1: Jeans and T-shirts with the contractor's logo / name may be considered as shop floor uniform for the contractor's team.

Note2: The contractor shall be solely responsible for the orderly and proper conduct of his staff during the period of work inside the RCF/KXH. The staff shall be polite and courteous.

13. Fines

1. If any safety instruction is not adhered to and if any of the contract worker is found without PPE, penalty for the same shall be applied @₹500/person-day.
2. Chewing of Pan/Gutka/any intoxicant is strictly prohibited at workplace, violations shall attract a penalty @₹500/person-day.

14. Compliance of Statutory & Regulatory requirements

All compliances with respect to statutory and regulatory requirements for the activities handled by the contractor shall be sourced by them.

15. Indemnification of RCF

The contractor shall provide a written undertaking to indemnify RCF from action resulting from breach of compliance of statutory and regulatory requirements for activities handled by them.

12. Miscellaneous Terms and Conditions

1. Quality Management

The Contractor shall maintain prescribed quality of work and good workmanship.

If any quality deviation is identified, necessary corrective and preventive actions shall be taken by the Contractor at the first instance of identification. If the Contractor fails to maintain the required quality standards and gets repeated rejection/rework, the contract will be terminated. Further action may be taken to duly disqualify the firm from quoting for future tenders.

2. Communication & Coordination

The contractor shall ensure proper communication and coordination with nominated

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personnel of RCF/KXH for progress connected to the project.

3. Stage inspection Hold & Witness Points

Stage Inspections, as required work shall be carried out by authorized personnel of RCF/KXH. The schedule of such inspections shall be prepared jointly by the RCF and contractor in the form of “Hold & Witness Points”

The contractor shall offer for inspection in writing after completion of work duly indicating the date of work and Shell number. Any inspection points raised on the installation work done till the dispatch of the coach, shall be cleared by the Contractor before turning out of coach.

4. Record of activities, instructions and compliances

The contractor shall maintain proper record of all activities, instructions and compliances in a register which will be checked periodically by concerned nominated personnel of RCF/KXH.

5. Errors omissions & discrepancies

The bidder(s)/contractor shall not take advantage of any misinterpretation of the conditions due to typing or any other error and if any doubt shall bring it to the notice of CDE/CEDE/RCF without delay in case of any contradiction.

Only the printed rules and books should be followed and no claim for the misinterpretation shall be entertained.

13. Guarantee/Warranty and Spares:

The supplier shall provide a warranty for all supplied items for a period of 3 (three) years from date of turnout of coaches for items whose specification is not given.

For items whose specification has been referred in this document individually & specification has warranty period, then warranty period shall be as per item specification. However minimum warranty period of 3 (three) years from date of turnout of coaches should be there for all items.

This warranty shall survive notwithstanding the act that the goods/stores/articles may have been inspected, accepted and payment hereof made by the Purchaser. In case any part/assembly/full assembly of the items under the scope of work failing or proving unsatisfactory in service due to defective design, material or poor workmanship, shall be replaced by the contractor on his own expense. Further, should any design modification be made in any part of the equipment offered, the period of 24months would commence, when the modified part is commissioned in the service.

13.1 Attention on site:

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Warranty claims will be applicable as per IRS terms and conditions. The warranty complaints/issues to be attended at respective depot.

13.2 Preventive Maintenance during warranty:

Preventive maintenance of all the items in the scope of turnkey is to be carried out by the contractor for a period specified at the primary maintenance depot from the date of dispatch of coach from RCF.

14 Payment Milestones and Terms:

1) The supply of the furnishing kits and its installation shall be made as per the schedule specified by RCF.

Note: No payment claim is tenable for supplies / installation out of the agreed schedule.

2) Payment shall start after the prototype coach has been successfully assembled and cleared in quality checks by RCF.

3) Coach wise payment shall be released upon successful completion (including quality clearance) of the furnishing and finishing of the coaches.

4) 90% of the installation bills shall be payable on the successful completion of the deliverables. The remaining 10% shall be retained as the performance guarantee for the duration of the warranty period. The firm may submit an irrevocable bank guarantee, or any other suitable / acceptable instrument mandated by the purchase officer, to release the 10% amount withheld.

Note: Performance guarantee shall be released on NOC provided by the primary maintenance depot of the coaches.

15 Penalties

15.1 Penalty for non-completion of the coach work

Penalty of Rs. 5000 per day per coach shall be levied upon the contractor if he/she is not able to fit/install the material supplied and clear the coach from the Quality department as per the agreed scope and schedule.

15.2 Attention during warranty

A trouble-free operation of contractor supplied items is expected.

Warranty claims will be applicable as per IRS terms and conditions. Warranty complaints/issues to be attended at the respective depot.

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Preventive maintenance of all the items in the scope of the turnkey is to be carried out by the contractor for a period specified in IRS conditions at the primary maintenance depot from the date of dispatch of coach from RCF.

16. Safety norms / Environmental Management System Norms to be followed by the Contractor:

- a. The contractor should take all precautionary measures in order to ensure the protection of his own personnel moving about or working on the Railway/ RCF premises, and should conform to the rules and regulations of the Railway/RCF.
- b. The contractor should abide by all railway regulations in force from time to time and ensure that the same are followed by his representative, agents or sub-contractors. or workmen.
- c. The contractor should ensure that unauthorized, careless or inadvertent operation of installed equipment which may result in accident to staff and/or damage to equipment does not occur.
- d. The Contractor should indemnify and keep the purchaser indemnified and harmless against all actions, suits, claims, demands, costs, charges or expenses arising in connection with any accident, death or injury, sustained by any person or persons. within the Railway premises at RCF and any loss or damage to Railway/RCF property sustained due to the Acts or omissions of the contractor irrespective of whether such liability arises under the workmen's compensation Act or the fatal accidents Act or any other statute in force from time to time. The Jurisdiction lies in the state of Punjab.
- e. To ensure Human safety the Contractor should use 24V hand lamp wherever lighting is not adequate inside the coach and Pneumatic drilling/tapping machines should be used for coach wiring and other related works wherever required.
- f. The contractor shall ensure that all his workmen wear PPEs (Personal protection equipment's) commensurate with the severity of work.
- g. The contractor shall ensure industrial safety methods in executing his work at RCF. The contractor shall ensure that all wastes (includes cable bits, packing materials, wooden crates) generated during their activities/work both on coach as well as on the shop floor are segregated and moved to the respective dump sites or earmarked drums kept in shop floor on the day of the completion of the work.
- h. The contractor has to give prior information whether any hazardous chemical is used in his work and if so, the operational control has to be exercised.

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- i. The contractor has to ensure that all his material handling equipment's/ transport vehicles are emission tested. Emission test certificate issued by competent Authority for fitness of the vehicle should be submitted.
 - j. The contractor has to ensure that his activities are in tune with the RCF EMS Policy (to be incorporated as part of contract).
 - k. The contractor's staff must be aware of contents of Material safety data sheet (M in respect of chemicals/materials (if any).
 - l. The contractor's staff shall be competent to operate emergency appliance extinguishers.
 - m. For any Welding process carried out in the work, the Contractor shall certify Welders to be engaged shall possess minimum ITI qualification or have sufficient experience and sufficient working knowledge.
 - n. Firm has to comply RCF letter No. RCF/HSQ/PLG/PPMF/16122 Dt 21-03-25 or any other guideline issued by RCF of safety.
17. Installation guidelines:
- (i) Contractor shall deploy skilled supervisor & worker as per RCF requirement.
 - (ii) Contractor shall install all the items under the scope of work.
 - (iii) Work on coach to be commenced only after allotment of coach by Furnishing shop.
 - (iv) The scope of supply installation testing commissioning includes all accessories including necessary hardware and consumables etc.
 - (v) All items shall be proposed for approval by CDE/RCF during the design approval process. Only approved items shall be used.
 - (vi) Installation procedure and process for the items under the scope of work shall be submitted to RCF design for approval.
 - (vii) All hinges, latches and locks used shall be of proven make viz. Southco / Dirak / Emka/ Sugatsune, as approved by RCF.
 - (viii) Sealant of make M/s. Henkel, 3M & Sika shall be used and the same shall be approved by RCF.
 - (ix) The contractor shall supply and install all items as per requirements specified in this scope of work.

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- (x) The coach interior shall be based on modern aesthetics with considerations to optimize passenger comfort, safety and security as well as to minimize noise in the coach
- (xi) All furnishing items including electrical items should be of superior quality in nature. as per specification and approval of RCF in respect of capacity, type and make should be taken prior to supply.
- (xii) The design of interior fittings shall be safe under all conditions of passenger impact, during emergency braking and buffing under fully loaded condition.
- (xiii) The coaches shall be furnished with lightweight, fire retardant, non-toxic materials . The furnishing shall be of highest international standards.
- (xiv) For Electrical items, RDSO Specification No.RDSO/PE/SPEC/EMU/0196-2019 (Rev.0) with all addendum/corrigendum and annexures should generally be referred to. Any deviation should be got approved by RCF.
- (xv) All interiors must be finished with good blending and slow ageing properties to provide a pleasant, high-quality interior and for ease of cleaning and maintenance.
- (xvi) As far as possible, fastening devices, fixings and securing screws shall not be visible from within the saloon.
- (xvii) All holes and gaps in the shell structure shall be provided with proven sealing arrangement to avoid water and dust entry, before doing panelling.
- (xviii) For fitment of all items under the scope of contractor as mentioned in scope, supply and fitment of back pieces in coach Shell shall rest with the contractor. Fitment of new back pieces/modifications to the existing back pieces or any minor alterations in the coach Shell in this regard, shall be made with the approval of RCF.
- (xix) Stainless steel hardware's shall be used for the fitment of all items in the scope of contractor. All hardware viz. screws, bolts, nuts and other fasteners required for installation of items under the scope of work shall rest with the contractor.
- (xx) Adhesives, brackets, fasteners, back pieces and moulding used for installation of items under scope of work, shall be of reputed brand.
- (xxi) No welding activity is permitted in RCF furnishing division. Welding activity of all items viz. partitions, back pieces etc. in the scope of work of contractor shall be done by the contractor at RCF shell division. Items shall be planned accordingly by the contractor.

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(xxii) During installation of all items under the scope of contractor, it shall be en control vibrations of items so that reliability/life is not affected and no take place. All interior fittings should have aesthetic look and flush with décor. Sharp edges shall be avoided. All the interior fittings should pilferage feature.

(xxiii) The composition and finish of all the materials covered under contractor's scope supply shall meet respective specification requirements as covered in the relevant drawings/specifications.

(xxiv)The contractor shall execute any modifications/improvements in coach body shell with the approval of RCF as suggested by competent authority without any financial implication.

(xxv) For all electrical equipment access hatch opening to be provided for maintenance which will be decided during detailed design stage.

(xxvi)Coach dimensions such as furnished thickness of sidewall, partition, roof, end wall shall be strictly followed as per layout drawing.

(xxviii) RCF will provide bare shell for carrying out the furnishing work, Electricity, air & water shall be provided free of cost by RCF.

(xxix)The furnishing of the coach shall be carried out at a place nominated by RCF.

(xxx) The Electricity act 2003: Relevant provisions stipulated in the Electricity act 2003 shall strictly be followed in the interest of safety of users/staff as well as for equipment/ instruments provided in the Cars.

(xxxi)The skilled labour proposed to be engaged for the Electrical work shall have minimum technical qualification of ITI or equivalent in the respective fields. The firm or supervisor in-charge should have valid appropriate electrical contractor license.

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