

SCHEDULE OF TECHNICAL REQUIREMENT FOR SUPPLY OF SET OF CUSHIONED SEAT AND BACK REST ON SLR/BEML COACHES (BG)

1.0 FOREWORD

Coach Rehabilitation Workshop, Bhopal is engaged in carrying out Mid Life Rehabilitation of Indian Railway (Broad Gauge) coaches. The work of rehabilitation involves major corrosion repair to the shell of coach and complete rehabilitation of coach as per existing drawings & specifications of RDSO/ICF. SUPPLY OF SEAT AND BACK REST WILL BE THE PART OF REHABILITATION OF COACH.

2.0 SCOPE OF SUPPLY

The scope covers the technical detail of material, terms & condition and inspection for supply of set of seat and back rest on SLR/BEML coaches at CRWS, Bhopal.

2.1 SPECIAL CONDITIONS/ OPERATING CONDITIONS

- 2.1.1 The supplier should manufacture the seat and back rest at their works/ factory premises and supply to CRWS Bhopal.
- 2.1.2 Material manufacturing, supply, transport and unloading at nominated place at CRWS/Bhopal are the whole responsibility of supplier.
- 2.1.3 After unloading the material at nominated place supplier will offer the material for inspection to railway supervisor. Quality, finishing of seat and back rest their dimensions will be inspected by railway supervisor. Rejected seat, backrest will not be allowed.
- 2.1.4 Firm has to provide items to the entire satisfaction of the railway representative.
- 2.1.5 Firm has to ensure that all fittings are injury free.
- 2.1.6 Agreement has to be given in writing on stamp paper that if there is any customer claim for injury due to material or bad workmanship of supplier then the firm will bear the compensation, if compensation is claimed with in two years after turning out the coach.

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- 2.1.7 The material used for manufacturing of seat, and back rest will be as per latest RDSO specification. Details of Drawing with material given in Clause 2.2.
- 2.1.8 The supply should be as per the instruction and to the satisfaction of railway administration. The judgment of quality done by railway officers or his representative will be final.
- 2.1.9 Railway will provide available open/close space for storing of seats and back rest supplied by supplier. Firm has to ensure that all fittings are injury free.
- 2.1.10 Supplier will strictly follow the safety rules as per factory act in side the workshop during supply.
- 2.1.11 The supplier shall be responsible for ensuring safety of his staff while supplying seat and back rest within the railway premises. In case of accident/causality during supply, the railway will not be responsible for any compensation.
- 2.1.12 The supplier shall not take any advantage of any misinterpretation of the conditions due to typing or any other error and if is in doubt, shall bring it to the notice of the Chief Workshop Manager, CRWS, Bhopal without delay. His decision will be final.
- 2.1.13 The firm at their own cost must replace all rejected material. No payment will be made for such rejected item.
- 2.1.14 No claim whatsoever will be given to the supplier in any circumstances.

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2.2 SUPPLY OF SET OF SEAT AND BACK REST OF SLR/BEML COACHES

2.2.1 **SCOPE OF SUPPLY OF MATERIAL:** - The details of seat and back rest required for one SLR/BEML coach are given below. Following material is to be supplied by supplier as a set for one SLR/BEML coach. Details of description, Drg. No. and Qty required is as under:-

1.	Complete assembled cushioned Transverse (Long) seat 4 seater (RH) for SLR/BEML coaches.	Cushioning as per Drg. No. CRW/SK-847, Alt-1	04 nos
2.	Transverse (Long) seat 4 seater with cushioned complete (LH) for SLR/BEML	Cushioning as per Drg.No. CRW/SK-847, Alt-1	04 nos.
3.	4 seater cushioned back rest complete	Cushioning as per Drg No. CRW/SK-845, Alt-1	08 nos.
4.	Single seat with cushioned complete (RH)	Cushioned as per Drg.No. CRW/SK-846, Alt-1	04 nos
5.	Single seat with cushioned complete (LH)	Cushioned as per Drg.No. CRW/SK-846, Alt-1	04 nos.
6.	Single seat cushioned back rest complete (RH)	Cushioned as per Drg.No. CRW/SK-842, Alt-1	03 nos
7.	Single seat cushioned back rest complete(LH)	Cushioned as per Drg.No. CRW/SK-842, Alt-1	03 nos
8	Cushioned End Single seat Back Rest	Cushioned as per Drg.No. CRW/SK-844, Alt-1	02 nos
	Total No. of Items in a set		32 nos.

2.2.2 IMPORTANT MATERIAL SPECIFICATIONS

Item/Accessory /Material/Fitting /Equipment	Material spec. as mentioned in drawing	Revised Material spec. (On which the material required)	Remarks
(1).Cushioning material in all Seat & Back rest has to be Densified Thermal Bonded Polyester block	RDSO-CK-607	RDSO Spec. no. CK-607 , As per RDSO spec.No.CK-607 with amendment slip no.01 & 02. Note: item no.1,2,4&5 of STR clause no.2.2.1 should be supply with higher density i.e. 60±-3	This revised/upgraded material is to be procured from vendors approved by RDSO & pre inspected by RITES at manufacturer's premises. Vendor approval shall be confirmed on date of inspection of raw material by RITES.

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(2).Vinyl coated fabric	RDSO/2006/CG-07 sample code No.NAC-SC06	Spec. no. RDSO/2006/CG-07 The colour shade & pattern of this mat. Shell be as per sample code NAC- SC06 or as agreed between the purchaser and supplier.	This revised/upgraded material is to be procured from vendors approved by RDSO & pre inspected by RITES at manufacturer's premises.
(3).Compreg	RDSO-C-9407 TYPE-I	C-9407 Rev-02 TYPE-I	This revised/upgraded material is to be procured from vendors approved by RDSO & pre inspected by RITES at manufacturer's premises.
(4).Seat frames & all other items		As per drawings only.	Seat frame should be painted with one coat of red oxide & two coat of syn. Enamel smoke grey.

Note: -

1. Material for making the seats and backrest shall be procured from the approved sources advised by RDSO as valid on date of opening of tender. Suppliers are advised to refer the latest RDSO vendor list for the current approved source of supply.
2. Vendor approvals shall be confirmed on date of inspection of raw material by RITES.

2.2.3 INSPECTION

M/s RITES will do stage inspection from raw material to finished product. at supplier's premises. The supplier should produce inspection certificate at the time of supply.

2.2.4 TERMS & CONDITION OF SUPPLY OF MATERIAL

2.2.4.1 The supplier will Supply finished seat and back rest to CRWS – Bhopal

2.2.4.2 Supply of finished products shall be made in coach sets as specified in scope of supply of Material (See Para.2.2.1).

2.2.4.3 After manufacturing supplier will arrange to transport the seat and back rest to CRWS Bhopal at their own cost.

2.2.4.4 Supplier will ensure unloading & stacking of material at the nominated place of workshop at the time of supply.

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2.2.5 DELIVERY SCHEDULE

2.2.5.1 The supplier should supply as per consignee planning of out turn, which will be about 03 to 04 coach set per month. For any change one-month prior information will be given to the supplier.

2.2.5.2 Each item will be packed separately in suitable packing.

2.2.6 WARRANTY

The warranty is applicable as per IRS condition.

2.2.7 MARKING

Manufacturer shall provide suitable nameplate on each item mentioning month & year of manufacturing also.

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