

## **SCHEDULE OF TECHNICAL RAQUIREMENT FOR SUPPLY OF SET OF CUSHIONED SEAT AND BACK REST FOR ICF/RCF SLR 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 ICF/RCF manufactured SLR 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 backrest their dimensions will be inspected by railway supervisor. Rejected seat, back rest 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.
- 2.1.7** The material used for manufacturing of seat, and backrest will be as per latest RDSO specification. Details of Drawing with material given in Clause 2.2.

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- 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.
- 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 COACHES

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

1.	Transverse seat 4 seater with cushion complete.	ICF Drg.no.GS4-6-1-406 alt 'a' col. II	08 nos.
2.	Single seat with cushion complete.	ICF Drg.no.GS4-6-1-407 alt 'a' col. III	04 nos
3.	Single seat with cushion complete.	ICF Drg.no.GS4-6-1-407 alt 'a' col. IV	04 nos.
4.	Cushion Back Rest for 4 seater	ICF Drg.no.GS4-6-1-408 alt 'a' col. I	08 nos.
5.	Cushion Back Rest for single seat.	ICF Drg.no.GS4-6-1-408 alt 'a' col. II	08 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 With amendment slip no.01 &2. Note: item no.1,2&3 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/ICF and pre inspected by RITES at manufacturer's premises. Vendor approval shall be confirmed on date of inspection of raw material by RITES.
(2).Vinyl coated fabric	RDSO/2006/CG-16	RDSO 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/ICF and pre inspected by RITES at manufacturer's premises.
(3).Compreg Plywood	RDSO-C-9407 TYPE-II	C-9407 Rev02 TYPE-I	This revised/upgraded material is to be procured from vendors approved by RDSO/ICF and pre inspected by RITES at manufacturer's premises.

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(4).Seat frames & all other items		As per drawing only.	
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- Note:** -
1. Material for making the seats and back rest shall be procured from the following approved sources advised by RDSO. Supplier 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 Approved Sources for Compreg Board to RDSO Specification C-9407 Rev-02 Type-I

- (i) M/s Mysore polymers Pvt Limited, Shed No.E-10, 11, Industrial Estate, Ramanagaram, Bangalore (Karnataka)
- (ii) M/s Oriental Vaneer Products Ltd., P.O.- Aghai, Via-Kalyan (RS), Thane – 421 301
- (iii) M/s Western India Plywood Ltd., P.O. – Balipatnam, Canonore, Distt. Kerala-670 010.
- (iv) M/s Composite Boards Pvt., Ltd., 48 Km Stone, GNT Road, Chinnao Bula Puram, Gummidipoondi – 601
- (v) M/s Tawakal Wood Products Pvt., Ltd., 31/33, Nishan Pada Road, Dongri, Mumbai – 9
- (vi) M/s Narbada Forest Industries Pvt. Ltd. Near Center Library Bhopal-462001

### 2.2.4 Approved Sources for Fire retardant Vinyl Coated Fabric to RDSO/2006/CG –07

- (i) M/s Vinyroyal Plasticoates Private Limited, Plot No. 319, village- baksa, talika –Haloi, Dist. Panchmahal, Gujrat-389350
- (ii) M/s Royal Cushion Vinyl Product Plot No. 55 , Village – Gardhia, taluka – salvi Dist- Vadodra, Gujrat-391520.
- (iii) M/s RMG Polyvinyle India Limited.10/1, Industrial area, Sikandrabad, Dist. - Bulandshahar-203205
- (iv) M/s Premium Polyfilms Ltd.40/1A,Site IV, Industrial area Sahibabad, Ghaziabad –UP-201010
- (v) M/s Vally valvatte (P) Ltd, 2/4 Chitra ami apartment, opposite old RBI, Ashram road, Ahmedabad-380009

### 2.2.5 Approved Sources for Cushioning Material (Recron) to RDSO Specification No. CK-607

- (i) M/s Balaji Fibre Products Ltd, Plot No.2, Phase-II, Gandhi Nagar, Bala Nagar Hyderabad-37.
- (ii) M/s Oriental Veneer product, At/Post Aghai, Via Kalyan (Railway Station), Thane-421 601.

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**2.2.6 INSPECTION**

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

**2.2.7 TERMS & CONDITION OF SUPPLY OF MATERIAL**

- 2.2.7.1 The supplier will Supply finished seat and back rest to CRWS – Bhopal
- 2.2.7.2 Supply of finished products shall be made in coach sets as specified in scope of supply of Material (See Para.2.2.1).
- 2.2.7.3 After manufacturing supplier will arrange to transport the seat and back rest to CRWS Bhopal at their own cost.
- 2.2.7.4 Supplier will ensure unloading & stacking of material at the nominated place of workshop at the time of supply.

**2.2.8 DELIVERY SCHEDULE**

- 2.2.8.1 The supplier should supply as per consignee planning of out turn which will be about 05 to 06 coach set per month. For any change one month prior information will be given to the supplier .
- 2.2.8.2 Each item will be packed separately in suitable packing.

**2.2.9 WARRANTY**

The warranty is applicable as per IRS condition.

**2.2.10 MARKING**

Manufacturer shall put the name plate on each item mentioning month & year of manufacturing also

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