

**SCHEDULE FOR TECHNICAL REQUIREMENT FOR SUPPLY  
OF SET OF CUSHIONED SEAT, BERTH ,HEAD REST ON  
WGSCN 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, BERTH & HEAD 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, berth & ,head rest on GSCN coaches at CRWS, Bhopal.

**2.1 SPECIAL CONDITIONS/ OPERATING CONDITONS**

- 2.1.1** The supplier should manufacture the seat, berths and head 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, berths with head rest their dimensions will be inspected by railway supervisor. Rejected seat, berth & head rest will not be allowed.
- 2.1.4** Firm has to provide work 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, berths and head 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 officer or his representative will be final.
- 2.1.9** Railway will provide available open/close space for storing of seat, berths and head 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, berths and head 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.
- 2.1.15** **The scope of Supply of material mentioned in CRWS/BPL/GSCN/cushion mtrl//STR003, ver 04 Dt. 13.09.2010, Para 2.2.1, page 5, note (i), (ii) , (iii) and ( iv) to be ensured before supply.**

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## **2.2 SUPPLY OF SET OF SEATS, BERTHS AND HEAD RESTS OF GSCN COACHES**

### **2.2.1 SCOPE OF SUPPLY OF MATERIAL**

The details of seat, berths & ,head rest required for one GSCN coach is given below. Following material is to be supplied by Supplier as a set for one GSCN coach. Details of description, Drg. No. and Qty required is as under: -

**Table ( A ) : For RCF type coaches ( Hinges type middle berths)**

<b>S.No.</b>	<b>Description</b>	<b>Drg. No.</b>	<b>Qty per set</b>
1.	Complete assembled cushioned Transverse seat for SCN type coaches	CRW/SK – 885 alt-nil.	18 nos
2.	Complete assembled Cushioned Transverse Middle berth complete for SCN type coaches	CRW/SK – 894 Col – III alt-nil.	18 nos
3.	Complete assembled Cushioned Transverse Upper berth complete for SCN type coaches	CRW/SK – 894 Col – II alt-nil.	18 nos
4.	Complete assembled Cushioned Single seat for SCN type coaches	CRW/SK – 887 alt. – nil.	19 nos
5.	Complete assembled Cushioned Berth cum back rest for SCN type coaches	TCN-6-1-825 alt 'b' & 3	18 nos
6.	Complete assembled Cushioned Longitudinal upper berth complete for SCN type coaches	CRW/SK – 888 alt. – nil.	09 nos
7.	Complete assembled Cushioned Back rest for TTE seat for SCN type coaches	TCN-6-1-829 alt 'a'R	01 no
8	Head Rest for upper berth for SCN coaches	SCN <sub>5</sub> – 6 - 1- 521 alt . ' j ' '	27 nos
Total number of item (cushion seats and head rest) in one coach set			128 nos

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**Table ( B ) : For wider way ICF type coaches ( Bearing Hole type berths)**

S.No.	Description	Drg. No.	Qty per set
1.	Complete assembled cushioned Transverse seat for SCN type coaches	SCN <sub>5</sub> – 6 - 1- 502 alt 'g'.	18 nos
2.	Modified Berth Complete - for SCN type coaches	ICF/SK-6-1-373alt.'d'.	45 nos
3.	Single seat Complete - for SCN type coaches	SCN <sub>5</sub> – 6 - 1- 508 alt .' e'	18nos
4.	Back rest Complete - for SCN type coaches	SCN <sub>5</sub> – 6 - 1- 506 alt .' g '	18 nos
5.	Head Rest for upper berth for SCN coaches	SCN <sub>5</sub> – 6 - 1- 521 alt .' j '	27 nos
Total number of item (Cushion seats and head rest) in one coach set			126 nos

**Table ( C ) : For ICF type coaches ( Bearing Hole type middle berths)**

S.No.	Description	Drg. No.	Qty per set
1.	Complete assembled cushioned Transverse seat for SCN type coaches	CRW/SK – 885 alt. - nil.	18 nos
2.	Complete assembled Cushioned Transverse Middle berth complete for SCN type coaches	CRW/SK – 894 Col – I alt. - nil.	18 nos
3.	Complete assembled Cushioned Transverse Upper berth complete for SCN type coaches	CRW/SK – 894 Col – II alt. - nil.	18 nos
4.	Complete assembled Cushioned Single seat for SCN type coaches	CRW/SK - 887 alt. - nil.	18 nos
5.	Complete assembled Cushioned Berth cum back rest for SCN type coaches	CRW/SK - 890 alt. - nil.	16 nos
6.	Complete assembled Cushioned Berth cum back rest for SCN type coaches	TCN-6-1-825 alt'b' & 3	02 no
7.	Complete assembled Cushioned Longitudinal upper berth complete for SCN type coaches	CRW/SK - 891 alt. - nil.	09 nos
8.	Head Rest for upper berth for SCN coaches	SCN <sub>5</sub> – 6 - 1- 521 alt .' j '	27 nos
Total number of item (cushion seats and head rest) in one coach set			126 nos

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**IMPORTANT NOTE: -**

- (i) Effective length and width of longitudinal upper berth, Berth cum back rest, Transverse Middle berth, Transverse Upper berth, Transverse seat, Single seat and the distance between stud to stud for transverse seat and single seat in longitudinal and transverse direction are likely to be variable from coach to coach and actual length can be assured after physical verification of measurement on coaches. Hence suppliers are advised to measure actual dimensions coach-wise at CRWS/BPL one month prior to manufacturing of items.
- (ii) Supplier has to advised to supply 01 coach set for each table A,B&C for trial fitment in coaches before monthly required quantity.
- (iii) Supplier has also advised to manufacture seat & berths not in bulk quantity since requirement of seat & berths depends on incoming feed of coaches in CRWS /BPL.
- (iv) Mouldings to be replace by berth panel at bottom of Upper berths , Middle berths and longitudinal upper berths of table A , B & C of clause no. 2.2.1.

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## 2.2.2 IMPORTANT MATERIAL SPECIFICATIONS

Item/Accessory/ Material/Fitting/E quipment	Material spec. as mentioned in drawing	Revised Material spec. (On which the material required )	Remarks
(1).Cushioning material in all Seats & Berths has to be Densified Thermal Bonded Polyester block	Foam rubber MDTS-013	As per RDSO Spec. no. CK-607 With amendment slip no. 01 & 2 . Note: item no. 1 , 4 & 5 of table A , item no. 1 , 3 & 4 of table B & item no. 1 , 4,5 & 6 of table C of STR clause no. 2.2.1 should be supply with higher density i.e. $60 \pm 3$ .	This revised/upgraded material is to be procured from vendors approved by RDSO and pre inspected by RITES at manufacture's premises.
(2).Vinyl coated fabric	RDSO Spec.C-9503 Type-I	Spec.no. RDSO/2008/CG-07 The colour shade & pattern of this mat. Shell be as per sample code ALNAC - 03 or as agreed between the purchaser and supplier.	This revised/upgraded material is to be procured from vendors approved by RDSO and pre inspected by RITES at manufacture's premises.
(3).Laminated compreg ply wood berth panel	RDSO/Spec. C-9407 Type-I	RDSO C-9407 TYPE-I Rev-02 The colour shade & pattern of this mat. Shell be as per sample code NAC- SP-05 or as agreed between the purchaser and supplier.	This revised/upgraded material is to be procured from vendors approved by RDSO & Mouldings to be replace by berth panel at bottom of Upper berths , Middle berths and longitudinal upper berths of table A,B&C of clause no. 2.2.1.
(4).Seat & berth frame & all other items		As per drawing only.	
(5).Cushioning material for Head Rest	ICF/M/D/Spec.-102(PU Foam blue)	ICF/M/D/Spec.-102 Rev-01 The colour shade & pattern of this mat. Shell be as per sample code ALNAC - 03 or as agreed between the purchaser and supplier.	This revised/upgraded material is to be procured from vendors approved by RDSO and pre inspected by RITES at manufacture's premises.

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Item/Accessory/ Material/Fitting/E quipment	Material spec. as mentioned in drawing	Revised Material spec. (On which the material required )	Remarks
6. MDF board	IS: 12406-08	Compreg ply wood to IS: RDSO C-9407 Rev-02 TYPE-I	This revised/upgraded material is to be procured from vendors approved by RDSO and pre inspected by RITES at manufacture's premises.

**IMPORTANT NOTE :-**

1. Material for making the seats and berths 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 at supplier's premises will do stage inspection from raw material to finished product. Inspection certificate should be produced by the supplier at the time of supply.

**2.2.4 TERMS & CONDITION OF SUPPLY OF MATERIAL**

**2.2.4.1** The supplier will supply finished seat, berths and head 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, berth and head 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 coach set per month from each Table ( A ), ( B ) & Table (C) i.e. Total 09 coach sets per month . Required quantity 03 coach set per month from each Tables (A,B&C) may be very as according to incoming feed of coaches in CRWS /Bhopal . 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 put the name plate on each item mentioning month & year of manufacturing also.

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