



**WEST CENTRAL RAILWAY**

**SCHEDULE OF TECHNICAL REQUIREMENTS**  
**FOR**  
**SUPPLY OF SET OF CUSHIONED SEAT, BERTH, ARM REST &**  
**HEAD REST FOR ACCW COACHES (BG)**

**No: CRWS/BPL/ACCW/cushion mtrl/STR001, Ver. 04**

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**ISSUED BY**

**COACH REHABILITATION WORK SHOP,  
NISHATPURA, BHOPAL**

## SCHEDULE OF TECHNICAL REQUIREMENTS FOR SUPPLY OF SET OF CUSHIONED SEATS, BERTHS, ARM RESTS, AND HEAD RESTS OF ACCW COACHES (BG)

### 1.0 FOREWORD

Coach Rehabilitation Workshop, Bhopal is carrying out Mid Life Rehabilitation of coaches. The work of rehabilitation involves major corrosion repair of coaches with complete rehabilitation of coaches as per drawings & specifications including fitment of new seat & berths. SUPPLY OF SEATS, BERTHS, ARM RESTS, AND HEAD RESTS IS THE PART OF REHABILITATION OF COACH.


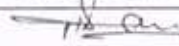
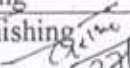
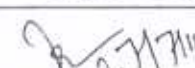
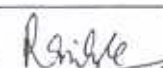
### 2.0 SCOPE OF SUPPLY

The scope covers supply of the material to the specified technical specification and inspection of seat, berth, arm rest & head rest of ACCW coaches to CRWS, Bhopal.

### 3.0 Details OF SUPPLY OF MATERIAL:-

The following coach components, consisting of seats, berths, and arm rest and head rests are required for one ACCW coach and to be supplied in a set.

S.No	Description	Drg.No.	Qty per coach
1.	Seat complete ( Transverse)	DRG NO. AW 61128 alt.- nil.	16 nos.
2.	Transverse Upper berth Complete (L.H.)	DRG NO AW 61105 alt. 'a'.	08nos.
3.	Transverse Upper berth Complete (R.H.)	DRG NO AW 61106 alt. 'a'.	08 nos.
4.	Single seat Complete for AC two tier	DRG NO AW 61102 alt. nil.	16 nos.
5.	Back rest cum berth for Single seat side.	AW 61103 alt. nil.	16 nos.
6.	Longitudinal upper berth	AW 61101 alt. - 'a'.	8 nos.



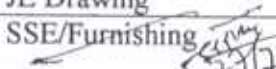
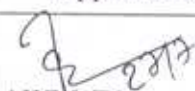
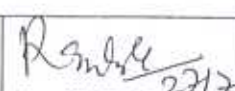
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	Complete		
7.	Conductor's berth Complete	Drg no. CC 61258 alt.'b'.	01 nos.
8	Complete assembled Cushioned tip up seat (conductor's) with fixing arrangement	ICF Drg no FC-6-1-056 alt'8' (cushioned provided on top of seat as per dimensions)	01 nos
9	Arm rest complete ( L.H.) side wall side	AE 61439 alt'b'.	08 nos
10	Arm rest complete ( R.H.) side wall side	AE 61440 alt'a'.	08 nos
11	Arm rest (R.H.) for Armrest complete.	AE 61233 alt'a'.	08 nos
12	Arm rest (L.H.) for Armrest complete.	AE 61249 alt'b'.	08 nos
13	Back Rest Complete (for Transverse Seat)	AW 61127 alt'a'.	16 nos
14	Head Rest for upper berth	ICF Drg.No.SCN5-6-1-521 alt'l'col. I	24 nos
15	<b>Total No. of Items in one set</b>	<b>146 nos.</b>	

## Note:-

1. Effective length and width of Longitudinal upper berth, Single seat back rest cum berth, Transverse seat back rest cum berth, Transverse upper berth (LH & RH), Transverse lower berth, single seat complete may vary from coach to coach.
2. Distance between stud to stud for transverse berths and single seat in transverse and longitudinal direction are also likely to vary from coach to coach.
3. Distance of suspension chain brackets of Transverse upper berth (LH & RH) are also required to be matched with chain suspension bracket in ceiling of coach.


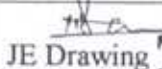
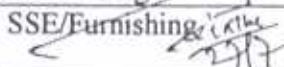
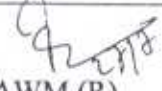
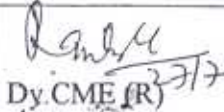
Hence actual dimensions can be assured only after physical verification/measurement on coaches. Therefore, coach-wise actual dimensions will be provided by CRWS/BPL to supplier minimum one month prior to supply of items.

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**4.0 MATERIAL SPECIFICATIONS**

Material descriptions	Material spec. as mentioned in drawing	Material spec. (On which the material required)	Remarks
(1).Cushioning material in all Seat & Berth has to be Densified Thermal Bonded Poiyester block	Foam rubber to ICF-Spec. No.087 Rev-01	As per RDSO Spec. no. CK 607 (Rev.-01)	This 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-TY-II	Spec. no. RDSO/2008 /CG-07 The color shade & patiern of this material Should be as per sample code No. AL AC - 01.	This material is to be procured from vendors approved by RDSO and pre-inspected by RITES at manufacture's premises.
(3).Seat frames & all other items		As per drawing and sizes subject to measurement of actual dimension on coaches only.	
(4).Cushioning material for Arm rest & head rest	ICF/M/D/Spec.-102 Arm rest(PU Foam black) ,Head Rest (PU Foam blue)	ICF/M/D/Spec.-102 Rev-01 The color shade & pattern of this material shell be as per sample code AL AC -01.	This material is to be procured from vendors approved by RDSO and pre inspected by RITES at manufacture's premises.

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**Note: - .**


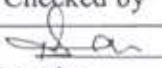
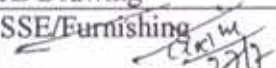
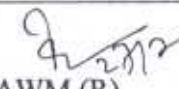
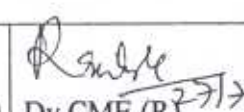
1. Material for manufacturing the seats and berths shall be procured from the approved and valid sources advised by RDSO.

**5.0 TERMS & CONDITIONS**

- 5.1 The supplier should manufacture the seats, berths headrests & arm rests at their workshop/factory premises and supply to CRWS Bhopal as final product complete in all respect at their own cost.
- 5.2 At any stage after receiving the material consignee has right to inspect the material & if found variation in dimensions, poor quality, poor workmanship & other defects, material will be treated as rejected.
- 5.3 Firm has to ensure that all the items should be injury free.
- 5.4 Supplier shall responsible for any defect/damage occurred during transportation.
- 5.5 Supplier will strictly follow the safety rules as per factory act inside the workshop during supply. In case of accident/causality during supply, the Railway will not be responsible for any compensation.
- 5.6 The supplier shall not take any advantage of any misinterpretation of the conditions due to typing or any other error and if there is any doubt, same has to immediately bring to the notice of the Chief Workshop Manager, CRWS, Bhopal. The decision of CWM/CRWS or his authorized representative will be final.

**6.0 DELIVERY SCHEDULE**

- 6.1 The supplier should supply material in staggered manner and in set only as mentioned in clause 3.0 which will be minimum 02 coach set per month or more .
- 6.2 Material shall be supplied in suitable packed condition.

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**7.0 INSPECTION**

The raw material and final product will be inspected by M/s RITES. However CRWS reserve the right for stage inspection during manufacturing process at supplier premises as and when felt necessary. RITES's inspection certificate should be produced at the time of supply of material.


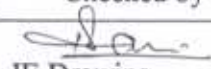
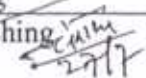
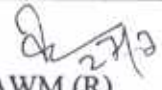
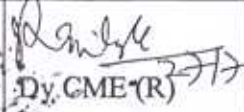
**8.0 WARRANTY**

The warranty is applicable as per IRS condition.

**9.0 MARKING**

Each product shall be legibly marked with following details.

- 1. Name of manufacturer/initials/trademark, if any.
- 2. Date/month/year of manufacture.
- 3. Batch number / Serial number.

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