

**SCHEDULE OF TECHNICAL REQUIREMENTS FOR MANUFACTURING OF
WIND SCREEN ASSEMBLY FOR ELECTRIC LOCOMOTIVES**

SCOPE:- The Schedule of technical requirements (STR) specifies the requirements to be met by vendors who manufacture, test and supply the Wind Screen Assembly for Locomotives, this STR should be read in conjunction with the CLW,s technical specification for this item. The firm should satisfy themselves having complied with the requirements of the specification and this STR.

(A) M&P Requirements: -

Sl. No.	Description	Capacity	Remarks
1.	Aluminum Extrusion, EPDM Rubber, Glass and SS fasteners to be developed and procured as per specification	As per drawing	This is required as per drg and from reputed established manufacturers with test certificate. (Glass to be procured from reputed vendor with test certificate as per drawing / specn.)
2.	Aluminum Extrusion cutting machine	Powered	For size cutting of aluminum extrusion
3.	Aluminum Extrusion bending machine	Suitable capacity	For bending profile of windscreen as per drawing
4.	Drilling and Tapping machine	Standard.	For drilling and tapping holes
5.	Alu. Welding Machine	Min 250 amps	For welding joint of the frame
6.	Grinding machine	Standard	For grinding weld joints and wrinkles on corners
7.	Space Require	As per requirement	The firm should have sufficient covered space for input material storage, in-process manufacturing, assy , water testing area and finished product storage and dispatch.
8.	Dies, Tools, Templates, Jigs and Fixtures	As per requirement	For bending alu frame and checking the accuracy of the job and also reqd for assy
9.	Measuring equipments like Vernier caliper, Micrometer, Tape, 4' Scale and paint thickness tester		For measuring length, thickness, flatness, paint thickness etc.
10	Water leakage testing facility		To check water leakage

(B) Quality requirement:-

1. Input Raw Material – Metallurgical Test is to be done & Sources of raw material to be specified.
2. Stage-wise & final Inspections are to be done & Check List for the same is to be made.
3. Valid ISO accredited certificate required.
4. Valid NSIC/SSIC registration certificate.

(Handwritten Signature)
AEE/D-III

Dy. CEE/D-I *(Handwritten Signature)*

CEE / Loco *(Handwritten Signature)*

CEE *(Handwritten Signature)*

**Indian Railways
Chittaranjan Locomotive Works
Chittaranjan, Burdwan
Fax No.0341-2525644**

No.ELDD/1720/SG

Dated:05.06.2009.

**Sub: Approval of Schedule of Technical Requirement for
manufacturing of Wind Screen Assembly for Locomotives.**

Schedule of Technical Requirements for manufacturing of Wind Screen Assembly
for Locomotives has been prepared and furnished at SN- side.

Dy. CEE/D-I is requested to kindly forward.

Competent Authority may kindly approve the same.

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05/06/09

AEE/D-III

Dy. CEE/D-I

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10/6

CEE/Loco

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CEE

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