

PROPOSED SCHEDULE OF TECHNICAL REQUIREMENTS (STR) FOR MANUFACTURING OF RESISTOR HERMONIC FILTER FOR THREE PHASE ELECTRIC LOCOMOTIVES.

SCOPE:- The Schedule of technical requirements (STR) specifies the requirements to be met by vendor who manufacture, test and supply of Cab Air Conditioning System for Electric Locomotives. This STR should be read in conjunction with CLW/RDSO's specification for this item. The firm should satisfy themselves having compelled with the requirement of specification and his STR.

1. M&P Requirements:-

Sl.	Description	Capacity	Remarks
1.	Shearing Machine	To cut 1 1500x3mm thk plate	
2.	Power press	50 T	
3.	Drill Machine	Standard	
4.	Punching Machine	Standard	
5.	Resistor grid forming machine	Standard	
6.	Hacksaw machine	Standard	
7.	Grinding Machine	Standard	
8.	Jig & Fixture for mounting	Standard	
9.	TIG & MIG welding machine	250Amps	
10.	Mobile trolley	3 Ton min.	
11.	EOT Crane	2 Ton	
12.	Weighing machine	2000 kgs min.	

2. Tools & Plants:-

Sl.	Description	Capacity	Remarks
1.	Crimping machine	To suit 50 & 120 mm ² cable	
2.	Dial indicating micrometer	0 - 25 (LC- 0.001 mm)	
3.	Tools & dies suitable for stainless steel processing	Standard	
4.	Measuring tapes	Standard	
5.	Vernier calipers	Standard	
6.	Screw gauge	Standard	
7.	Other hand tools like spanner , hammer etc.	Standard	

3. Testing facilities:-

Sl.	Description	Capacity	Remarks
1.	Rain test arrangement	2 M x 2 M	
2.	1000V DC Meggar / insulation tester		
3.	Test room having variable power supply arrangement for obtaining variable current up-to 1000 Amps.		
4.	Vibration & Shock testing arrangement		May be out sourced
5.	Di-electric set	0 to 10 kv min.	
6.	Voltmeter	0 to 1500 Volt. min.	
7.	Ammeter	0 to 1500 Amps min.	
8.	Automatic data logger	Temp. range up to 2000deg.C- capacity to record temp. at an interval of every two minutes min.	

4. Other Facilities:

- ISO Certificate.
- Quality assurance plan.
- Capacity to manufactured 100 nos/year
- R & D facilities.
- Qualified personals in the field of brazing and welding of stainless steel, having experience not less than 5 yrs

Dhar 15/12/10
(P.K.DHAR)
SSE/ELDO

AEE/D-III

Dy.CEE/D-I

CEE/Loco

CEE/CLW

May please approve
M. Ch. S.
15/12/10