

SCHEDULE OF TECHNICAL REQUIREMENTS FOR MANUFACTURE, SUPPLY OF CONNECTOR/ COUPLER FOR LOCOMOTIVES.

SCOPE

The Schedule of Technical Requirement (STR) mentioned hereunder is issued to serve as a guide to manufacturer (Firm) and should be read in conjunction with the relevant drawings. The firm should satisfy themselves having complied with the requirement of the drawing & STR. The requirement is meant to serve as guidelines only and is not exhaustive.

A. MACHINERY & PLANT (M&P) FOR MANUFACTURING

SN	Description	Capacity	Remarks
1.	Hydraulic Press	Standard	For Rubber Mouldings
2.	Heat Treatment Arrangement	Standard	For Rubber Mouldings
3.	Lathe M/c	Standard	Required for machining purpose
4.	Electric Oven with tray	Suitable Size	Required for Metal Shell
5.	Dispenser	Suitable Size	Required for Metal Shell
6.	Labeling M/c	Suitable Size	For grooving Name & Batch nos on body of the connectors
7.	Digital Temp Controller	Suitable Size	For controlling Temp Level
8.	Hydraulic Rubber Moulding Press	Suitable Size	For Rubber Moulding
9.	CNC M/c	Standard	Require for Metal Shell of connector body.
10.	Shape Machine	Suitable Size	For Manufacturing contact of the connector
11.	Electroplating Arrgt	Standard	For Electroplating Pins & sockets

B. LIST OF TESTING & MEASURING FACILITIES :

SN	Description	Capacity	Remarks
1	Vernier calipers, Micrometer, inside & outside caliper and all other gauges .	Suitable Size	Required for measuring dimensions.
2	Digi weighting M/c	Suitable Size	Required for measuring weight
3	Depth Micro Meter	Suitable Size	Required for measuring Depth
4	Analog Volt Meter	0-500v	Required for measuring high voltage.
5	Salt spray chamber	Suitable Size	For testing Corrosion .
6	Insulation measurement Inst.	Suitable Size	Testing insulation between two contacts of the connectors
7	High Voltage Brake down tester	Suitable Size	High voltage tester
8	Meggar	Suitable Size	Required for insulation resistance measurement
9	Environmental Test Chamber	Suitable Size	Testing chamber of Connector
10	Plating Thickness Measurement Inst.	Suitable Size	For Verifying Gold & Silver plating On contact.
11	Vibration Test (desirable)	Suitable Size	For Testing Vibration .
12	Crimping Load test	Suitable Size	For Crimping Pin in cables.

C. QUALITY REQUIREMENTS :-

1. Input Raw Material – Chemical Test is to be done & Sources of raw material to be specified
2. Stage-wise Inspections are to be done & Check List for the same is to be made.
3. Final Inspection is to be done & Check List for the same is to be made.
4. Proper storage facilities for raw material, which normally have shelf life.
5. ISO Certification.

M. Chak
10/5/10

AEE/D-III

Dy. CEE/D-I May pls recommend STR
 CEE/Loco may pl approve
 CEE Approved.
 P. P. P. 20.1.10
 CEE (Loco) [Signature]
 Dy. CEE/D-I [Signature] AEE/D3
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 [Signature] 13/1/10