

**SCHEDULE OF TECHNICAL REQUIREMENTS FOR MANUFACTURING OF
HEAD LIGHT DUAL HOUSING**

SCOPE:- The Schedule of technical requirements (STR) specifies the requirements to be met by vendors who manufacture, test and supply the Head Light Dual Housing 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 Casting Arrgt. | As IS | Casting should be clean, sound & free from blowholes and other harmful defects. |
| 2. | Sheering Machine | Suitable size | For cutting the sheet. |
| 3. | Press Machine | Suitable size | For pressing / bending purpose |
| 4. | Lathe Machine | Suitable size | For machining job. |
| 5. | Drilling Machine | Suitable size | Required for drilling holes |
| 6. | Grinding Machine | Suitable size | For grinding purpose |

(B) Measuring / Testing Equipments :-

| Sl. No. | Description | Capacity | Remarks |
|---------|---------------------------|-----------|--|
| 1. | Meggar | 500 V D.C | To measure the insulation resistance between the terminal and body. |
| 2. | H.V. Test Set | 5 KV | Required for measurement of dial thick. |
| 3. | Temp. Rise Testing Arrgt. | Standard | Head light lamp burning continuously and the max. steady temperature of the body to be measured. |
| 4. | Vibration Testing Arrgt. | Standard | For checking any loose fittings components, mechanical damage or abnormality. |
| 5. | Focusing Test Arrgt. | Standard | Need to use for Focusing Test |
| 6. | Lux Meter | Standard | For measuring the illumination. |
| 7. | Multimeter | Digital | For measuring the current & voltage. |

(C) Quality Requirements :-

1. Input Raw Material – Metallurgical 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. All the non-metallic parts should be Fire- Retardant / self-extinguishing type.
5. ISO Certification.
6. NSIC/SSIC registration.

M. Choudhary
10/4/09
AEE/D-III

Dy. CEE/D-I

CEE/Loco

CEE