

ISO:9001-2005	Doc. No :TM/SM/STR/48/TBL(E)	Date effective from : 06/06/2022
Document Title: STR for Manufacturing and supply for Track Based Lubricators (Electronic type)		



Schedule of Technical Requirement
FOR
MANUFACTURE AND SUPPLY
OF
Track based Lubricators (Electronic type)
Document no.:- TM/SM/STR/48/TBL(E)

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SCHEDULE OF TECHNICAL REQUIREMENTS FOR MANUFACTURE AND SUPPLY OF TRACK BASED LUBRICATORS (ELECTRONIC TYPE).

1.0 SCOPE

- 1.1 The schedule of technical requirements covers the norms for manufacture and Supply of Track based Lubricators (Electronic type).

2.0 Referenced Documents:

- i) Indian Railway Standard specification for Track based Lubricators (Electronic type) IRST-48 with ACS -01 (dated 26.02.2020).
- ii) ISO Apex Documents of RDSO.

3.0 REQUIREMENTS

The vendors seeking approval shall comply all the below mentioned requirements.

General and Manufacturing Facilities:

- 3.1 Covered area free from dampness and humidity with adequate space for storage of related components.
- 3.2 The weighing facilities for measuring various raw material constituents and the product at various stages.
- 3.3 The manufacturer must have the items like fire extinguishers, safety warning board. Shock treatment charts and medical first aid kit in the firm premises.
- 3.4 The environment of in the manufacturer's premises should be clean and pollution free.
- 3.5 Facilities for installation of components.

4.0 TESTING FACILITIES:

The Following testing facilities and measuring instruments should be available with the firm.

- 4.1 A separate room/laboratory, mixing with all testing facilities required for testing of the component of product.

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- 4.2 Grinding machine, cutting machine, lathe machine and necessary tools with measurement gauges such as surface plate, height gauge and Vernier Calipers with a least count of 0.02 mm should be available in the tool room.
- 4.3 Adequate power supply must be sectioned to firm for the production of Track based Lubricators (Electronic type) along with back up of DG set.
- 4.4 Steel Scale (Linear), weighing machine, Thickness gauge, Hygrometer (Humidity Recorder) of suitable range should be available.
- 4.5 Firm maintain proper record of calibration of measuring instruments and test equipment
- 4.6 Any other facility required for testing method given in the specification.

5.0 Quality Control Requirements:

- 5.1 There should be a system to ensure the traceability of the product from raw material sample to finished product stage. This system should also facilitate to identify the raw material composition from the finished product stage.
- 5.2 There should be QAP for the product detailing following aspects.
 - i) Organizational chart
 - ii) Flow Process Chart
 - iii) Stage inspection details
 - iv) Plants and machinery as per STR.
 - v) Quality Manuals ,Quality Plans, Check list
 - vi) All the relevant specification and IS Standards should be available with the firm.

General: -

The firm should possess experienced and sufficient man power like manager, supervisors, laboratory in charge, quality controller and workmen. The necessary qualification of the work force should depend upon their job requirements. The firm should maintain approved QAP, copy of which should be available at the firm's premises. The specification and drawings along with all the IS/BIS specifications mentioned in IRST-48 with ACS -01 should be available at site for reference. The firm should preferably possess a valid ISO certification.

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6.0 Major Components details:

SN	Name of component	Self-make	Procured from outside agency	Remarks
01	Tank	Drawing details, manufacturing details should be available.	Details of Outside agency should be available.	Raw material / equipment shall be procured only from the reputed & well-proven sources, conforming to relevant standards. Critical components shall be procured from reputed OEMs or their accredited agents / ROSO approved sources.
02	Pump	-Do-	-Do-	
03	Lubricant Distribution system	-Do-	-Do-	
04	Hose	-Do-	-Do-	
05	Wheel sensor	-Do-	-Do-	
06	Applicators	-Do-	-Do-	
07	Electronic control circuit	-Do-	-Do-	
08	Solar Power and Battery	-Do-	-Do-	
09	Lubricants	-Do-	-Do-	

6.1 Test of major components:

S.no.	Name of component	Test
1.	Tank	Checked visually, dimensionally and also should be as per specification.
2.	Pump	-Do-
3.	Lubricant Distribution system	-Do-
4.	Hose	-Do-
5.	Wheel sensor	-Do-
6.	Applicators	-Do-
7.	Electronic control circuit	-Do-
8.	Solar Power and Battery	-Do-
9.	Lubricants	Checked properties (Product data sheet) as per specification.

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7.0 Working manual:

The firm should have working manual of product.

- i) Installation manual.
- ii) Maintenance manual.
- iii) Service manual.
- iv) Parts manual.
- v) Operating manual.

8.0 Power availability (KVA):

Following document should be available.

- (a) General allotted capacity
- (b) Standby generator and its capacity, if available.
- (c) Name the party/person in whose name the power is sanctioned and your agreement with the party/person (Support with documents)

9.0 Calibration Record :

SN	Name of the machine & quantity	Year of manufacture	Capacity	Date of calibration	Due date of calibration

10.0 Details of Manpower:

- (i) The firm should have separate in-charge of Quality Control & production.
- (ii) The firm should have minimum 01no. Skilled staff and 02 no. un-skilled staff.

SN	Name of Staff	Designation	Qualification	Experience

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11.0 Raw material record:

The firm should maintain list for raw material/bought outs.

SN	Name of Item	Quantity	Date of Incoming	Approved source (Yes /No)	Details of source

12.0 Document:

- i) Ownership details of the firm should be available.
- ii) The firm should have necessary specifications, ISO apex. Document, IS Codes, Drawings, STR/Specification guidelines.
- iii) The firm should possess digital signature & its registration with IREPS.
- iv) The firm should have valid SSI/NSIC/ Factory license.
- v) The firm should have valid Gem registration.
- vi) The firm should have Local content details.

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