

ISO 9001:2015	TM/SM/STR/10/RPWG	Revision-00	Date Effective from: 16/06/2022
Document Title: STR for Manufacturing and supply for <b>Rail Profile Weld Grinder</b> .			



सत्यमेव जयते  
Government of India

**Schedule of Technical Requirement  
FOR  
MANUFACTURE AND SUPPLY  
OF  
Rail Profile Weld Grinder**

**Doc. no.-TM/SM/STR/10/RPWG**

ट्रेक मशीन एवं मोनिटोरिंग निदेशालय  
अनुसंधान अभिकल्प एवं मानक संगठन  
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## Schedule of Technical Requirements for Manufacture and Supply of Rail Profile Weld Grinder.

### 1.0 SCOPE

1.1 The schedule of technical requirements covers the norms for manufacture and Supply of **Rail Profile Weld Grinder**.

### 2.0 Referenced Documents:

- (i) **Specification of Rail Profile Weld Grinder** (No.TM/SM/10).
- (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.
- 4.2 Lathe Machine, Universal milling machine, Drilling machine, Hydraulic hacksaw machine, cutting machine, welding set and necessary tools should be available in the tool room.

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- 4.3 Steel Scale (Linear), weighing machine, Thickness gauge, Radius gauge, Micro meter, Depth gage, Thread gauge, Hygrometer (Humidity Recorder) of suitable range should be available as Measuring tools.
- 4.4 Adequate power supply must be sanctioned to firm for the production of Rail Profile Weld Grinder along with back up of DG set.
- 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 and RDSO specifications 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	Fixing Clamp	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 / RDSO approved sources.
02	Motor	-Do-	-Do-	
03	Cup Shape Grinding Stone	-Do-	-Do-	
04	Mounting plate of Motor	-Do-	-Do-	
05	Body of Rail profile weld grinder.	-Do-	-Do-	
06	Feed rod screw	-Do-	-Do-	
07	Ground stopper legs.	-Do-	-Do-	
08	Other Materials	-Do-	-Do-	

**7.0 Working manual:**

The firm should have working manual of product.

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

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**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

**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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