

ISO 9001:2015	TM/SM/STR/02/Disc	Revision-00	Date Effective 16/06/2022
Document Title: STR for Manufacturing and supply for Rail Cutting Wheel (Abrasive Disc).			



सत्यमेव जयते
Government of India

Schedule of Technical Requirement
FOR
MANUFACTURE AND SUPPLY
OF
Rail Cutting Wheel (Abrasive Disc)
(Doc. no. TM/SM/STR/2/Disc)

ट्रेक मशीन एवं मोनिटोरिंग निदेशालय
अनुसंधान अभिकल्प एवं मानक संगठन
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JRE/SSRE/SSE	ARE/DTM/EDTM	PEDTM	Page 1 of 5
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ISO 9001:2015	TM/SM/STR/02/Disc	Revision-00	Date Effective 16/06/2022
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Schedule of Technical Requirements for Manufacture and Supply of
Rail Cutting Wheel (Abrasive Disc).

1.0 SCOPE

- 1.1 The schedule of technical requirements covers the norms for manufacture and Supply of **Rail Cutting Wheel (Abrasive Disc).**

2.0 Referenced Documents:

- (i) Specification of Rail Cutting Wheel (Abrasive Disc), Spec.no.TM/SM/2.
- (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 A separate room/laboratory should be available for blending, mixing and moulding.
- 4.3 A separate room/laboratory should be available for oven validation.

JRE/SSRE/SSE	ARE/DTM/EDTM	PEDTM	Page 2 of 5
Prepared by	Checked By:	Issued By:	

1239690/2022/O/o PED/INFRA-1/RDSO

ISO 9001:2015	TM/SM/STR/02/Disc	Revision-00	Date Effective 16/06/2022
Document Title: STR for Manufacturing and supply for Rail Cutting Wheel (Abrasive Disc).			

- 4.4 Blending machine, double pan mixer, moulding press, oven, cutting 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.
- 4.5 Adequate power supply must be sectioned to firm for the production of Rail Cutting Wheel (Abrasive Disc). along with back up of DG set.
- 4.6 Steel Scale (Linear), weighing machine, Thickness gauge, Hygrometer (Humidity Recorder) of suitable range should be available.
- 4.7 Firm maintain proper record of calibration of measuring instruments and test equipment
- 4.8 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 should be available at site for reference. The firm should preferably possess a valid ISO certification.

JRE/SSRE/SSE	ARE/DTM/EDTM	PEDTM	Page 3 of 5
Prepared by	Checked By:	Issued By:	

1239690/2022/O/o PED/INFRA-1/RDSO

ISO 9001:2015	TM/SM/STR/02/Disc	Revision-00	Date Effective 16/06/2022
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6.0 Major Components details:

SN	Name of component	Self-make	Procured from outside agency	Remarks
01	Grain	Manufacturing details & properties 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	Powder resin	-Do-	-Do-	
03	Fillers	-Do-	-Do-	
04	Fiber or similar item	-Do-	-Do-	
05	Other materials	-Do-	-Do-	

7.0 Manual:

The firm should have 'Operation cum Maintenance Manual' of product.

8.0 Power availability (KVA): Following document should be available.

- General allotted capacity
- Standby generator and its capacity, if available.
- 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

JRE/SSRE/SSE	ARE/DTM/EDTM	PEDTM	Page 4 of 5
Prepared by	Checked By:	Issued By:	

1239690/2022/O/o PED/INFRA-1/RDSO

ISO 9001:2015	TM/SM/STR/02/Disc	Revision-00	Date Effective 16/06/2022
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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 02no. skilled staff and 03 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.

JRE/SSRE/SSE	ARE/DTM/EDTM	PEDTM	Page 5 of 5
Prepared by	Checked By:	Issued By:	