

GOVERNMENT OF INDIA

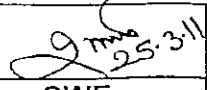
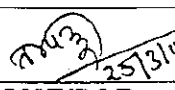
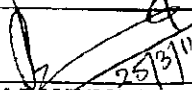
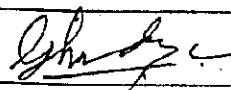
(Ministry of Railways)

SPECIFICATION FOR INDUSTRIAL SAFETY SHOES

WCR/IND.SHOES/04 (Rev-6)
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Issued by

MECHANICAL DEPARTMENT
WEST CENTRAL RAILWAY
GM OFFICE JABALPUR
INDIA

 25.3.11	 25/3/11	 25/3/11	
CWE APPROVED	DY.CME/P&B VERIFIED	AEME/MRR REVIEWED	SSE/DRG PREPARED

SPECIFICATION FOR SAFETY SHOES

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1.0 Scope

The specification covers the supply of Leather safety footwear confirming to IS:15298(Part-1&2)-2002, and with the following requirements for workers engaged in West Central Railway.

2.0 Design & Size

2.1 **Design** - High cut Ankle boot.

2.2 **Classification** - Article 7189-02

2.3 **Size** - Size 5 -14 shall be in accordance to UK standards.

2.4 **Weight** - Weight of the boot per pair of the size 8 shall be approximately 950 gms. +/- 50 gms. Tender shall indicate weights size wise in the offer.

2.5 **Colour** - Black

3.0 Materials

3.1 **Upper** - Printed barton grain leather black in colour and thickness of 1.8-2.0 mm minimum.

3.2 **Lining** - Soft PU laminated cambrelle, shall have breathe ability and quick absorbent properties for added comfort.

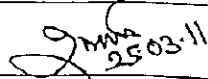

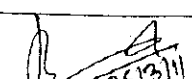
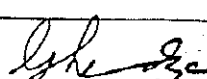
3.3 **Tongue** - Full bellow of soft cushioned synthetic, without wrinkles and cuts or defects to prevent entry of flying hot metal particles inside the footwear.

3.4 **Collar** - Soft synthetic sponged collar, for extra comfort and to prevent entry of hot metal particles inside the footwear.

3.5 **Eyelets** - Power coated "D" type steel ring eyelets, riveted.

3.6 **Laces** - Nylon 100 cm round with breaking strength 50-60 Kgs.

3.7 **Thread** - Synthetic Nylon Threads for best stitching strength. Threads shall be acid alkali and fire proof.

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- 3.8 **Outsole** - Direct Injection Process, PU single Density, Sole thickness at forepart 12.0 mm \pm 5 mm.
- 3.9 **Heel Material & Thickness** - PU same as sole with thickness 30 mm \pm 5 mm.
- 3.10 **Toecap** - Steel Powder coated should withstand impact load of 200 Joules.
- 3.11 **Insole** - Laminated textile for Heat Insulation.
- 3.12 **In-sock** - shall be of full length leather to provided comfort by quickly absorbing sweat, and give comfort during long hours of wearing.
- 3.13 **Height of Shoe** - Bottom of head to top of ankle for size 8, 160 mm \pm 5 mm.

4.0 **Marking**

The marking shall be specified in IS:15298 (Part-2)-2002.

5.0 **Finishing**

Liquid spray and elegant looking.

6.0 **Supply**

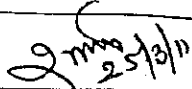

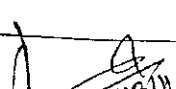
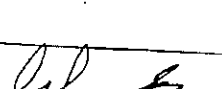
Boots to size 5-11 to UK standards are to be supplied. Vendors shall have to exchange boots with a particular size as required, to the extent of about of 5 % of the total quantity ordered.

7.0 **Packing**

Boot shall be placed in Polythene covers and packed in cardboard box of suitable size and thickness, to avoid damage during transit. One shoe box & further 12 such boxes in a corrugated carton.

8.0 **Test certificate**

The supply shall be accompanied with Test Certificate, indicating conformance of supplied lot with all the parameters specified in the specification IS:15298 (Part-2)-2002 and to IS:2584-1963 for Electrical Resistance. Testing of sole increase in volume SPE 12% max and impact test ISO 8782 Part-I & II or EN standard.

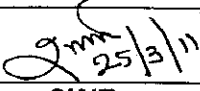

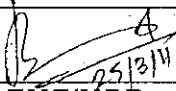
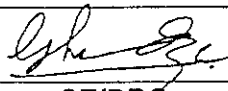
			
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9.0 Guarantee

Boot shall be guaranteed for a period of 6 months in use, or 12 months from the date of supply. However the decision of WCR shall be final in this regard. WCR reserves the right to accept or reject in case of any anomaly noted in the samples of entire lot even after acceptance and receipt of material at the premises of the user.

10.0 ISO Certification

Firm should be ISO: 9001 certified and necessary certificate to be submitted with the tender.

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