



Annexure A

NOTICE INVITING TENDER

Ref : NIT No.28633 (2560474E) dt 23.07.2016

Technical Requirement for Vendors Supplying.

SL	Material code	Description	UNIT	Qty	Lot	Lot Qty	Delivery date
001	IM5701200004		PAIR	10.000	01	10.000	30/09/2016
		LEATHER SAFETY SHOE PU SOLE 4" BROWN					
		As per our technical specifications					
		enclosed					
002	IM5701200005		PAIR	75.000	01	75.000	30/09/2016
		LEATHER SAFETY SHOE PU SOLE 5"BROWN					
		----DO----					
003	IM5701200006		PAIR	205.000	01	205.000	30/09/2016
		LEATHER SAFETY SHOE PU SOLE 6"BROWN					
		-----DO-----					
004	IM5701200007		PAIR	475.000	01	475.000	30/09/2016
		LEATHER SAFETY SHOE PU SOLE 7"BROWN					
		----- DO-----					
005	IM5701200008		PAIR	695.000	01	695.000	30/09/2016
		LEATHER SAFETY SHOE PU SOLE 8"BROWN					
		-----DO-----					
006	IM5701200009		PAIR	520.000	01	520.000	30/09/2016
		LEATHER SAFETY SHOE PU SOLE 9"BROWN					
		-----DO-----					
007	IM5701200010		PAIR	193.000	01	193.000	30/09/2016
		LEATHER SAFETY SHOE PU SOLE 10"BROWN -					
		---- DO-----					
008	IM5701200011		PAIR	45.000	01	45.000	30/09/2016



LEATHER SAFETY SHOE PU SOLE 11"BROWN					
-----DO-----					
009	IM5701200012	PAIR	5.000	01	5.000 30/09/2016
LEATHER SAFETY SHOE PU SOLE 12"BROWN --					
---DO-----					
010	IM5701200014	PAIR	2.000	01	2.000 30/09/2016
LEATHER SAFETY SHOE PU SOLE 14"BROWN					
----- DO -----					

Tender may be submitted through <https://bheleps.buyjunction.in>

Note: All corrigenda, addenda, amendments, time extensions, clarifications etc., to the tender will be hosted on BHEL website (www. bhel.com) only. Bidder should regularly visit website www.bhel.com to keep themselves updated.

In the absence of sufficient response like at least three MSE (Micro and Small) vendors, offers from others may be considered.

Manager / Purchase

BHEL:: BAP: RANIPET

TECHNICAL SPECIFICATION/CHECK-LIST FOR LEATHER SAFETY SHOE WITH DOUBLE DENSITY POLY-URETHANE SOLE

S/NO	DESIGN PARAMETER	TECHNICAL REQUIREMENT	VENDOR TO CONFIRM/SPECIFY/TEST CERTIFICATE REQMT	OFFERED	DEVIATION, if any
1	APPEARANCE & DESIGN				
1.1	Design	Low Ankle Safety Shoe designed for maximum safety and comfort.	Vendor to confirm		
1.2	Weight	Weight of a pair of Size 8 shoe shall be 1000 grams (-50 grams/+25 grams)	Vendor to confirm		
2	PROCESS				
2.1	Manufacturing Process	Manufactured by Direct Injection Molding process without using nails.	Vendor to confirm		
3	UPPER LEATHER OF THE SHOE				
3.1	Material	Good quality grain leather (Cow/buffalo)	Vendor to confirm		
3.2	Colour	Brown	Vendor to confirm		
3.3	Thickness	1.5 mm to 1.8 mm	Vendor to confirm		
3.4	Tensile Strength(minimum)	21 MPA or 210 kgf/cm ² (as per IS-5677:1986 Clause 3.5)	To confirm by Test Certificate		
3.5	Elongation at break	45 to 75% (as per IS-5677:1986 Clause 3.5)	To confirm by Test Certificate		
3.6	Stitch Tear Strength (min)	80 kg/cm thickness (IS-5677:1986 Clause 3.5)	To confirm by Test Certificate		
3.7	Distension and Strength of grain	Extension at Crack, min 7 mm and at bursting, min 10 mm (as per IS-5677:1986 Clause 3.5)	To confirm by Test Certificate		
3.8	Flexural Endurance (bally)	1,00,000 flexes without cracking of the grain (IS-5677:1986 Clause 3.5)	To confirm by Test Certificate		
3.13	Heat Resistance	To pass the test as in Appendix-A of IS-5677:1986 Clause 3.5	To confirm by Test Certificate		
3.14	Colour fastness to rubbing	Good (as per IS-5677:1986 Clause 3.5)	To confirm by Test Certificate		
3.15	Colour fastness to rubbing	Good (as per IS-5677:1986 Clause 3.5)	To confirm by Test Certificate		
3.16	Tongue Tear Resistance (min)	40 Kg /cm thickness (as per IS-5677:1986 Clause 3.5)	To confirm by Test Certificate		
3.9	Solvent extractable substances (% by mass)	3.0 to 7.0 (as per IS-5677:1986 Clause 3.6)	To confirm by Test Certificate		
3.10	Water soluble matter (% by mass),max	3.5 (as per IS-5677:1986 Clause 3.6)	To confirm by Test Certificate		
3.11	Chromium content as Cr ₂ O ₃ (%by mass), min	4.0 (as per IS-5677:1986 Clause 3.6)	To confirm by Test Certificate		
3.17	pH of water solubles	Not below 3.3 (as per IS-5677:1986 Clause 3.6)	To confirm by Test Certificate		
3.18	Upper shell lining	Inside of the upper shell shall be provided with good cushioning and cambrelle lining or textile lining as a wear absorbing arrangement.	Vendor to confirm and specify the lining material		
4	INSOLE				
4.1	Material	Good Quality non-woven based material	Vendor to confirm and specify the lining material		
4.2	Thickness	minimum 3 mm (+/-0.2 mm)	To confirm by Test Certificate		
4.3	Lining	Cambrelle lining (or) good quality textile lining as a sweat absorbing arrangement	Vendor to confirm and specify the lining material		
5	BOTTOM SOLE				
5.1	Material	Flexible Poly-urethane	Vendor to confirm		
5.2	Relative Density	Double Density	To confirm by Test Certificate		
5.3	colour	Brown	Vendor to confirm		

[Signature]
11/7/16

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Safety Engr

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11/07/2016

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Approved By
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Sl.No	DESIGN PARAMETER	TECHNICAL REQUIREMENT	VENDOR TO CONFIRM/SPECIFY/TEST CERTIFICATE REQMT	OFFERED	DEVIATION, if any.
5.4	Thickness	IS15298(Part2)2011, Clause 5.8.1	To confirm by Test Certificate		
5.5	Tear Strength	IS15298(Part2)2011, Clause 5.8.2	To confirm by Test Certificate		
5.6	Abrasion Resistance	IS15298(Part2)2011, Clause 5.8.3	To confirm by Test Certificate		
5.7	Flexing Resistance	IS15298(Part2)2011, Clause 5.8.4	To confirm by Test Certificate		
5.8	Hydrolysis Test	IS15298(Part2)2011, Clause 5.8.5	To confirm by Test Certificate		
5.9	Inter layer bond strength	IS15298(Part2)2011, Clause 5.8.6	To confirm by Test Certificate		
5.10	Resistance to fuel oil	IS15298(Part2)2011, Clause 5.8.7	To confirm by Test Certificate		
5.11	Shore hardness	55 to 65 A	To confirm by Test Certificate		
5.12	Anti-static (Electrical properties)	IS-15298(Part2)2011, Clause 6.2.2	To confirm by Test Certificate		
5.13	Slip Resistance	IS-15298 Part-1:2015(ISO 20344:2011), Clause 5.11	To confirm by Test Certificate		
6	TOE CAP				
6.1	Material	Steel	Vendor to confirm		
6.2	Shape and Dimension	Type 2 as per IS-5852:2004 Clause 5.1	To confirm by Test Certificate		
6.3	Performance Test	shall retain a minimum clearance of 22 mm (as per Clause 5.2 of IS-5852:2004)	To confirm by Test Certificate		
6.4	Finish	IS-5852:2004 Clause 5.3	To confirm by Test Certificate		
6.5	Rust Prevention	Rust prevention required	To confirm by Test Certificate		
7	THREAD				
7.1	Material	Kevlar of resistance to burn	Vendor to confirm		
7.2	Properties	2 twist, oil, acid, chemical proof, non-flammable	Vendor to confirm		
8	LACES				
8.1	Material	Cotton or Nylon	Vendor to specify		
8.2	Length	630 mm	Vendor to confirm		
8.3	Diameter	6 mm	Vendor to confirm		
9	EYELETS				
9.1	Material	Brass or Aluminium	Vendor to specify		
9.2	Inner diameter	to suit the lace diameter	Vendor to confirm		
9.3	Outer diameter	10 mm to 12 mm	Vendor to confirm		
9.4	Number of eyelets	3 nos on each side	Vendor to confirm		
10	DIMENSION	As per the drawing given.	Vendor to confirm		
11	SAMPLE	A pair of Size 8 shoe (Non-returnable) along with the offer.	Vendor to confirm		
12	TEST CERTIFICATE	Test certificate has to be obtained from CLRI or FDDI or any accredited laboratory of CLRI/FDDI. Test certificate has to be submitted along with sample and also during supply and it shall contain our Tender reference / PO No.	Vendor to confirm		
13	MARKING	Each shoe shall have the following identification marks (1) Size (2) Vendor's identity (3) Month & Year of Manufacturing (4) ISI marks (5) "Anti-Static" and Anti-Slip"	Vendor to confirm		

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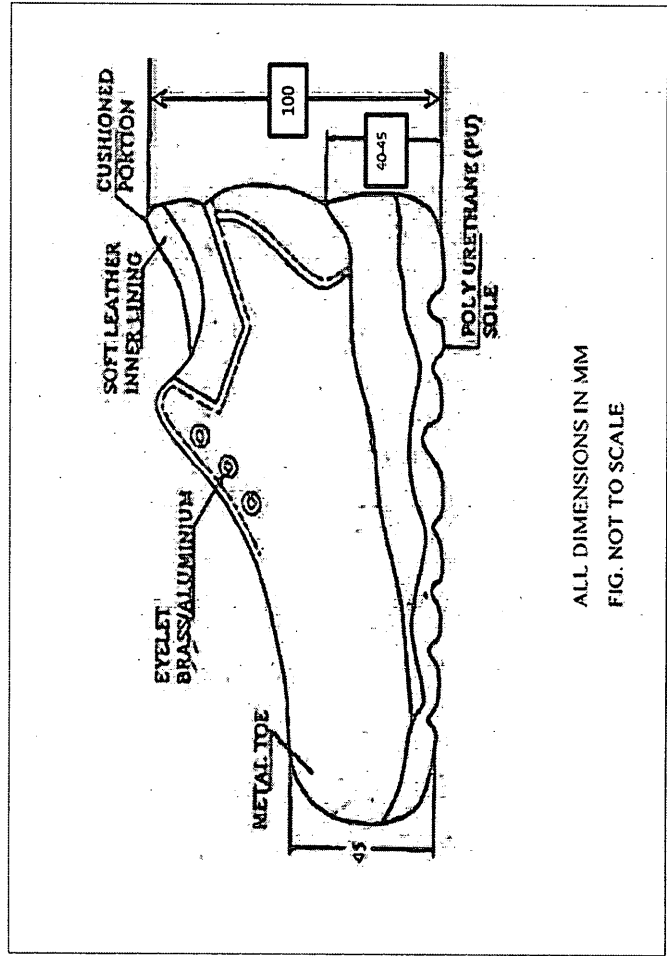
Part 11/07/2016

Sr. Manager
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14	INSPECTION	Inspection will be carried out at your works with reference to the accepted sample and test report.	Vendor to confirm		
15	PACKING	Good quality cardboard box, with one pair extra lace and a environment friendly carry bag. Separate indication/cover for identifying polycarbonate toe cap shoes.	Vendor to confirm		
16	GUARANTEE CERTIFICATE	Guarantee certificate has to be given for any manufacturing defects along with the consignment from the date of receipt at our Stores for free replacement within six months.	Vendor to confirm		



ALL DIMENSIONS IN MM
FIG. NOT TO SCALE

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BHEL Enquiry no, Date & due Date		P. U. Sole Double Density Leather Safety Shoes (Indent No D84360008, dt.24-05-16) For the year 2016. Date: 02/06/16	
Item Description		Documentary proof	
SL.No	Pre qualification criteria		Enclosed Yes/No
01	Supplier shall be a manufacturer or an authorized dealer of a valid MSME Vendor in Micro or Small	Proof of MSE status like certificate from Govt of India is required with location of works.	
02	Supplier must have supplied minimum 950 pairs of PU bottom Leather safety shoes in Three times or 1200 pairs of shoes in two times or 1900 pairs of shoes in single supply in last two years.	Proof like contract copy or Purchase order (atleast unpriced) is required. Proof of supply completion and receipt of payment for that contract are required	
03	Supplier must submit proof as a manufacturer or authorized dealer indicating the Tax/VAT/TIN & PAN number along with technical bid.	Copy of VAT/TIN/PAN shall be enclosed.	
04	Supplier must enclose some of their customers' address, contact details(Name ;phone no, email ID) for which they have supplied the safety shoes.	Copy of details shall be enclosed	
05	Supplier must submit sample of safety shoe one pair in size 8" according to our technical specification on non-returnable basis. (With out sample , offer will not accepted)	-----	
06	Manufacturer's monthly installed production capacity is to exceed our tender quantity	Proof from District Industries centre or Auditor is required	


 Sr. Manager Safety Engineering