



**Annexure A**

**NOTICE INVITING TENDER**

**Ref : NIT No.28474 (2560441E) dt 13.07.2016**

**Technical Requirement for Vendors Supplying.**

<b>SL</b>	<b>Material code</b>	<b>Description</b>	<b>UNIT</b>	<b>Qty</b>	<b>Lot</b>	<b>Lot Qty</b>	<b>Delivery date</b>
001	IM5701207400		PR	5.000	01	5.000	09/09/2016
		SLIP IN SAFETY BOOT-NITRILE SOLE - 5"					
		As per our Technical specifications enclosed					
002	IM5701207500		PR	40.000	01	40.000	09/09/2016
		SLIP IN SAFETY BOOT-NITRILE SOLE - 6"					
		----- DO -----					
003	IM5701207600		PR	90.000	01	90.000	09/09/2016
		SLIP IN SAFETY BOOT-NITRILE SOLE - 7"					
		----- DO -----					
004	IM5701207700		PR	125.000	01	125.000	09/09/2016
		SLIP IN SAFETY BOOT-NITRILE SOLE - 8"					
		----- DO -----					
005	IM5701207800		PR	90.000	01	90.000	09/09/2016
		SLIP IN SAFETY BOOT-NITRILE SOLE - 9"					
		-----DO -----					
006	IM5701207900		PR	35.000	01	35.000	09/09/2016
		SLIP IN SAFETY BOOT-NITRILE SOLE - 10"					
		----- DO -----					
<b>007</b>	<b>IM5701208000</b>		<b>PR</b>	<b>13.000</b>	<b>01</b>	<b>13.000</b>	<b>09/09/2016</b>
		<b>SLIP IN SAFETY BOOT-NITRILE SOLE - 11"</b>					
		<b>-----DO -----</b>					
<b>008</b>	<b>IM5701208100</b>		<b>PR</b>	<b>2.000</b>	<b>01</b>	<b>2.000</b>	<b>09/09/2016</b>
		<b>SLIP IN SAFETY BOOT-NITRILE SOLE - 12"</b>					
		<b>----DO ----</b>					

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](http://www.bhel.com) to keep themselves updated.

Manager / Purchase

BHEL:: BAP: RANIPET			
SAFETY ENGINEERING DEPARTMENT			
TECHNICAL SPECIFICATION/CHECK-LIST FOR SLIP IN TYPE LEATHER SAFETY BOOTS			
Sl.No	DESIGN PARAMETER	TECHNICAL REQUIREMENT	VENDOR TO CONFIRM/SPECIFY
1	APPEARANCE & DESIGN		OFFERED
1.1	Design	High Ankle Safety Shoe designed with heat resistant nitrile rubber bottom sole	Vendor to confirm
1.2	Weight	The weight of a pair of a Size 8 shoe shall be 1500 grams (+/-50 grams).	Vendor to confirm
2	PROCESS		
2.1	Manufacturing Process	The bottom sole and upper shell should be joined with direct vulcanised process. Shoe shall be machine stitched wherever required and no nails shall be used.	Vendor to confirm
3	UPPER LEATHER OF THE SHOE		
3.1	Material	Good quality printed grain leather (Cow/buffalo)	Vendor to confirm
3.2	Colour	Black	Vendor to confirm
3.3	Thickness	1.2 mm to 1.3 mm	Vendor to confirm
3.4	Tensile Strength(minimum)	21 MPA or 210 kgf/cm <sup>2</sup> (as per IS-5677:1986 Clause 3.5)	Vendor to confirm
3.5	Elongation at break	45 to 75% (as per IS-5677:1986 Clause 3.5)	Vendor to confirm
3.6	Stitch Tear Strength (min)	80 kg/cm thickness (IS-5677:1986 Clause 3.5)	Vendor to confirm
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)	Vendor to confirm
3.8	Flexural Endurance (bally)	1,00,000 flexes without cracking of the grain (IS-5677:1986 Clause 3.5)	Vendor to confirm
3.9	Heat Resistance	To pass the test as in Appendix-A of IS-5677:1986 Clause 3.5	Vendor to confirm
3.10	Colour fastness to rubbing Crocking test -Dry test	Good (as per IS-5677:1986 Clause 3.5)	Vendor to confirm
3.11	Colour fastness to rubbing Crocking test-Wet test	Good (as per IS-5677:1986 Clause 3.5)	Vendor to confirm
3.12	Solvent extractable substances (% by mass)	3.0 to 7.0 (as per IS-5677:1986 Clause 3.6)	Vendor to confirm
3.13	Water soluble matter (% by mass),max	3.5 (as per IS-5677:1986 Clause 3.6)	Vendor to confirm
3.14	Chromium content as Cr <sub>2</sub> O <sub>3</sub> (%by mass), min	4.0 (as per IS-5677:1986 Clause 3.6)	Vendor to confirm
3.15	pH of water solubles	Not below 3.3 (as per IS-5677:1986 Clause 3.6)	Vendor to confirm
3.16	Upper shell lining	Inside of the upper shell shall be provided with good cambrelle lining or textile lining as a sweat 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)	Vendor to confirm
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	Nitrile rubber	Vendor to confirm
5.2	Colour	Black	Vendor to confirm
5.3	Shore hardness	50 to 55 A	Vendor to confirm
5.4	Anti-static (Electrical properties)	IS-15298(Part2)2011 Clause 6.2.2	Vendor to confirm
6	TOE CAP		
6.1	Material	Steel	Vendor to confirm
			DEVIATION, if any.

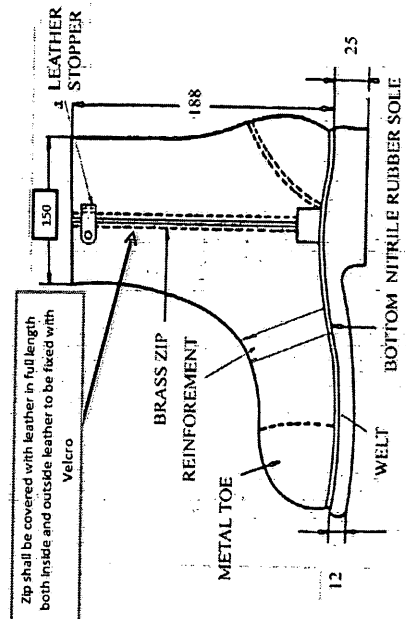
Prepared By  
**G. SESHADRI** 09/16/16  
 Additional Engineer - I  
 Safety Engineering  
 QMS/CAP/COMPACT-092406

Reviewed By  
**P. S. Srinivasan**  
 09/16/16  
 Sr. Engineer  
 Safety Engineering  
 QMS/CAP/COMPACT-092406

Approved By  
**V.A. SOMANATHAN**  
 Sr. Manager  
 Safety Engineering  
 QMS/CAP/COMPACT-092406

**TECHNICAL SPECIFICATION/CHECK-LIST FOR SLIP IN TYPE LEATHER SAFETY BOOTS**

S/NO	DESIGN PARAMETER	TECHNICAL REQUIREMENT	VENDOR TO CONFIRM/SPECIFY	OFFERED	DEVIATION, if any.
6.2	Shape and Dimension	Type 2 as per IS-5852:2004 Clause 5.1	Vendor to confirm		
6.3	Impact test	14 kgf m conforming IS 5852:2004	Vendor to confirm		
7	ZIP arrangement				
7.1	Zip Arrangement	Zip arrangement shall be provided for closing and opening on the toe side of boots. The zip shall be covered with leather in full length both sides and outside leather to be fixed with velcro.	Vendor to confirm		
7.2	Material of the Zip	Brass / Nickel			
8	DIMENSION	As per the drawing enclosed.	Vendor to confirm		
9	SAMPLE	A pair of Size 8 shoe (Non-returnable) shall be submitted along with the offer.	Vendor to confirm		
10	TEST CERTIFICATE	Vendor shall confirm the parameters during the tendering stage. Test certificate has to be submitted during bulk supply and it shall contain our PO No. Test certificate has to be obtained from CLRI or FDDI or any accredited laboratory of CLRI/FDDI. Vendor to ensure that the Points 3.3 to 3.15, 4.2, 5.3, 5.4, 6.2, 6.3 shall be covered in the Test Certificate for conformance.	Vendor to confirm		
11	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		
12	INSPECTION	Inspection will be carried out at our works with reference to the accepted sample and test report.	Vendor to confirm		
13	PACKING	Good quality cardboard box, with one pair extra lace and a environment friendly carry bag.	Vendor to confirm		
14	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

Prepared By

**G. SESHADRI** 16/1/16  
Additional Engineer - I  
Safety Engineering  
ENR/RAPIR/Inmet - 632406

Reviewed By

**P. S. S. ENGINEER**  
Safety Engineering  
ENR/RAPIR/Inmet - 632406

Approved By

**S. SOMANATHAN**  
Sr. Manager  
Safety Engineering  
ENR/RAPIR/Inmet - 632406

Bharat Heavy Electricals Limited , Ranipet 632406 Phone no.(04172) 28 3018 or 28 4338 email: <a href="mailto:rtpipuruty@bhelrpt.co.in">rtpipuruty@bhelrpt.co.in</a> BHEL Enquiry no. dt Due date			
SL No	Item Description	Slip in Type Safety Boot Indent No:84360010 dated 07/06/16	Enclosed Yes/No
	<b>Pre qualification criteria</b>	<b>Documentary proof</b>	
01	Supplier shall be a manufacturer or an authorized dealer of a valid MSE Vendor( Micro / Small)	Proof of MSE status like certificate from Govt of India is required with location of works.	
02	Supplier must have supplied minimum 160pairs of Slip in type safety boot in three times or 200 in two times or 320 pairs in single supply in last two years	Proof like contract copy or Purchase order is required. Proof of supply completion and receipt of payment for that contract are required	
03	Supplier must submit sample of slip in type safety boot according to our technical specification on non-returnable basis. ( <b>With out sample , offer will not accepted</b> )	-----	
04	Supplier must enclose some of their customers' address contact details (Name, phone no, email ID) for which they have supplied the Slip in type safety boot.	Copy of details shall be enclosed	
05	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.	
06	Manufacturer's monthly installed production capacity is to exceed our tender quantity	Proof from District Industries centre or Auditor is required	

*P. S. K.* 11/07/2016

Sr. Engineer / Safety engineering