



**Black Leather Shoes/Sandal (Normal)**

**Ref: BHEL/HR/WLF/01 Rev:02**

2

Page 1 of 2

**1.0 Scope**

This standard covers the requirement of Leather shoes (Normal) with PU DIP sole for protection of feet.

**2.0 Technical Requirement**

1. The shoes/Sandal upper and bottom sole shall be joined together by direct injection process (DIP). Shoes manufactured by any other process will not be acceptable.
2. upper leather shall be of good quality softy leather in black colour.
3. The shoes/Sandal shall be provided with lasting inner sole.
4. The eyes lets shall be of brass/ Aluminum and shall be 4/5 pairs.
5. The shoes/sandel is to be machine stiched and no nails shall be used.
6. Minimum to maximum range of the total weight shall be of approximately 600-900 Grams per pair.
7. Laces shall be round in shape and slip knot Resistant.
8. Shoes size shall be men's 'Standard English size' With medium fitting as per IS-1638-1969 with latest amendments if any.
9. Ladies sandal size shall be Women's 'Standard English size' with medium fitting as per 1969 with latest amendments if any.

**3.0 Sample**

Along with offer, sample and conformance certificate as per specification no. BHEL/HR/WLF/OI, (Clause no. 4.1) shall be submitted. Maximum three samples can be submitted along with offer by each bidder.

Each samples shall have a permanent non-removable hanging type tag of maximum size 2''X2'' with the following details.

1. Tender Enquiry No.
2. Article/Model no.
3. Name of tenderer.
4. Singnature along with name.

**4.0 Test Certificate**

4.1 supplier shall submit sample with conformance certificate along with the offer as per the following Technical paraments (Clause no.-4.1)

Test certificate shall be submitted along with bulk supply after carrying out test as per the following technical parameter on each lot of supply against BHEL order.

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Technical Parameters

Type of test	Required Value
<b>1. Shoes upper (Leather)</b>	
(a) Tear strength Test Based on IS 15298 (Part-2) 2002	Minimum-120 Newton
(b) Bailey Flexing Test Based on SA IRA TM 55	No Damage/Crack till 1,00,000 Cycles
<b>2. Sole PU (DIP)</b>	
(a) Bennewart Flexing Test As per IS 15298 (Part-2) 2002	Cut Growth not more than 4 mm before 30,000 Cycles.
(b) Aberration Resistance Test	Maximum 250 mm <sup>3</sup> l
(c) Peel strength test between upper and Sole. Based on SATRA TM 411	Minimum 4 Newton/mm

4.2 Test certificate submitted along with supply shall indicate the following.

- (a) BHEL Purchase Order NO.
- (b) Batch no. & date
- (c) Type of test, its required and observed values as per Technical parameter (Clause 4.1)

**5.0 Packing**

Each pair of shoes shall be packed in a card board box and one' polythene carrying bag is required for each pair of shoes.

**6.0 Marking**

The shoes shall be marked with the following information

- (a) Size of the shoes on sole and shoes socks.
- (b) MRP on shoe socks.
- (c) Suppliers identity
- (d) Article no/Model no.
- (e) Month/Year of the manufacturing/Size on cardboard box.

**7.0 BHEL Inspection**

Final inspection will also be carried out at our works with reference to the approved sample and test report submitted along with supply and as per purchase order. BHEL Jhansi may inspect at manufacturer's work at its discretion with reference to the approved sample, technical parameters and as per purchase order. The supplier shall give inspection call before dispatch of shoes.

**8.0 Guarantee Certificate**

Six months free replacement guarantee certificate shall be given for manufacturing defects along with its consignment from the date of receipt at BHEL.

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*[Handwritten Signature]*