

**BHEL- BHOPAL****SPECIFICATION FOR INDUSTRIAL SAFETY HELMET****SCOPE**

This standard covers the requirements of industrial safety Helmet.

**COMPLIANCE WITH STANDARDS**

It shall comply with IS 2925-1984 or EN- 397 or ANSI Z 89.1.2009.

Authenticated photos copies of the latest test certificates (from OEMs, National Accredited Test Laboratories) to be submitted along with the offer.

- Vendor/bidder to furnish authorization letter from Principal /OEM against the enquiry quoted.
- Vendor / bidder to submit along with the offer, authenticated copy of latest certificate of product conformity to relevant IS/EN/ANSI standards.
- The Vendor /bidder shall confirm their acceptance to the BHEL specifications by Signing and Stamping on it.

**TECHNICAL REQUIREMENT**

1. The helmet shall be made from HDPE; the shell shall have HDPE Embossed or HDPE Symbolically shown.
2. The Weight of the helmet shall not exceed 400 grams.
3. The helmet should be provided with 3 or 4 rectangle /square ventilation holes built into the Mould, on either sides (total aggregate area of holes, on either sides = 180 sqr mm (min) distance between edges of adjacent holes = 15 mm)
4. The helmet shall have rain drain channel.
5. The helmet shall be provided with Harness including Headband, Cradle and Nape Strap, chin strap, ventilation holes and peak.
6. **HARNESS:**
  - a) The material of harness shall be sweat resistant and non- irritant.
  - b) The headband shall be not less than 30 mm in width and securely fixed to the shell and Crown straps. The head band shall be readily adjustable.
  - c) The headband shall be fitted with anti-concussion tapes (made of textile) of not less than 19 mm width, secured at least a 6 anchoring points, forming the cradle.
  - d) The straps shall ensure a clearance of at least 30 mm between top of wearers head and inside top of helmet crown at smallest size adjustment and a wearing height of not less than 80 mm at max. size adjustment of the headband.
  - e) Tightening of the head band shall be possible through high quality, non-slip ratchet arrangement at the back of head and does not entangle with wearers hair. Pin lock is not acceptable.

**7. CHIN STRAP, NAPE STRAP:**

- a) The Helmet shall be provided with chinstrap & nape strap made of sweat resistant and non-irritating material.
- b) The chinstrap shall be of at least 19 mm wide with an adjustment device to maintain tension.

- c) The nape strap shall be either integral or as an attachment to the headband and adjustable.

<b>SIZE</b>	<b>RANGE OF HEADBAND ADJUSTMENT</b>
a) SMALL	500 – 540 MM
b) MEDIUM	540 – 590 MM
c) LARGE	590 - 640 MM

#### **SAMPLE**

Sample shall be supplied along with offer for approval. (Test certificate of sample to be submitted for approval)

#### **TEST CERTIFICATE**

- 1) The supplier shall submit the test certificate along with the bulk supply as per specifications.
- 2) The test certificate shall also indicate Batch No & Date.

#### **PACKING**

The helmet shall be supplied, packed individually for protection from dust & damage.

#### **MARKING**

The helmet shall be embossed with: a)

Relevant IS / EN / ANSI marks

b) Batch No, Month and year of manufacturing.

c) BHEL emblem/ Logo shall be embossed at the front side of the helmet in size 40mm x 30mm.

#### **INSPECTION**

Inspection will be carried out at our works with reference to the acceptable sample and test reports. BHEL will inspect at vendor works where ever required.

#### **GUARANTEE CERTIFICATE**

Guarantee Certificate to be given for any manufacturing defects along with its consignment for free replacement within six months from the date of receipt at stores.

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