

PQC for Safety Helmets

Technical Requirements:

General

1. The helmet shall comply with IS 2925 – 1984 (Reaffirmed 2005).
2. The bidder/vendor shall submit copy of latest test certificate from National Accredited Test Laboratories.
3. If the bidder/vendor is not a Principal/OEM vendor, they shall submit copy of authorization from the OEMs/Principals.
4. The bidder/vendor shall submit authentic copy of latest certificate of product conformity to relevant IS/EN/ANSI standards.
5. The helmet shall be made from strong, rigid and high density poly ethylene material.
6. The helmet shall be provided with harness including head band, cradle and chin strap, peak and sweat strap.
7. The helmet shall be provided with 3 or 4 rectangular/square ventilation holes (built into the mould) on either sides. Total aggregate area of holes on either sides = 180 square mm(min.). Distance between edges of adjacent holes-15mm.
8. The helmet shall be provided with a Good Quality, Durable & Non-slip Ratchet to headband for easy adjustment and fitting to head.
9. The helmet shall be comply with Heat resistance, Flammability resistance, Electrical resistance, impact resistance and water absorption tests as per IS 2925.
10. The total weight (mass) of the helmet shall be 350grams (10 grams plus or minus).

Harness:

1. Material for harness shall be sweat resistant and non – irritant.
2. The head band shall be not less than 30mm in width and securely fix to the shell and crown straps with adjustable arrangement.
3. The head band shall be fitted with anti-concussion tapes of not less than 19mm width secured atleast at 6 anchoring points forming the cradle.
4. Straps shall ensure clearance of atleast 30mm between the top of the helmet shell and inside top of the helmet crown at the smallest size adjustment of the head band and wearing height of not less than 80mm at the maximum size adjustment of the head band.

Chin Strap:

1. The helmet shall be provided with easily removable and washable chin strap.
2. The chin strap shall be atleast 19mm wide with an adjustment device to maintain tension.

Other Terms & Conditions:

1. The helmet shall be embossed with ISI and DGMS Marks, Batch no. month and year of manufacturing and BHEL Emblem (40mm x 30mm) at the front side of the helmet.
2. The helmet shall be packed individually and supplied to protect against dust and damage.