

## Annexure -A

### Full Body Harness Safety belt with standard accessories:

Type &Size	: Class A, Medium
Buckles& D-ring	: SS
Hook	: Snap type with 16mm opening made of SS 14 mm thickness
M.O.C [Belt, Straps, webbing]	: Nylon or synthetic load bearing material which shall not break under a minimum tensile load of 19.6 KN(2000 kg).
Straps	: Shoulder, chest Waist& Thigh (width not less than 40mm & thickness width not less than 3mm)

Note:

### DESIGN AND CONSTRUCTION

- Webbing and thread elements shall be made from synthetic fibres, having characteristics consistent with those of polyamide and polyester.
- Sewing threads shall be physically compatible with and of a comparable quality to that of the webbing, but shall be of a different colour from that of the webbing in order to facilitate visual inspection.
- The full body harness shall fit the wearer. Means of adjustment may also be provided. The straps shall not migrate from their positions and shall not loosen by themselves. The harness should also be provided with **soft padding at the thigh, shoulder & waist for comfort during work.**
- The harness shall contain the body and shall distribute suitably the dynamic fall arrest forces and post-fall shall not create any supplementary risk and shall offer an acceptable degree of comfort. Length of lanyard shall not be more than 3 metre.
- It shall be possible to carry out a visual inspection of all the components of the harness. If it is dismantled, it shall be impossible to reassemble it incorrectly.
- Threads for sewing the load bearing components shall have similar physical and chemical properties to that of the materials being sewn. Number of stitches shall be not less than 3 per cm and the type of thread shall be synthetic fibre such as nylon, polyester etc.
- All rivets and washers if used for joining the various sections shall be made from copper.
- All metal components shall be solid or forged. In order to protect all metal fittings against corrosion and/or other chemical reaction, it is necessary that all the fittings shall be coated by chromium plating (minimum 8 micron), powder coating (minimum 45 micron).
- The design of the hooks shall be self-closing type and care shall be taken to ensure that if pressure is exerted accidentally on the tongue or latch, they shall not disengage. The Full body harness shall be made as **per IS 3521-1999 (reaffirmed 2002)**
- The Material should be ISI approved and should be supplied with BIS approval certificate (For Indian manufacturer) and Complies EN standard code for Full Body Harness for abroad manufacturer .

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