

## Technical Specification for CSSR Boot/Hard Toe Steel Shank Boot

S/No	Specifications		Proposed trial directives
1	<b>General</b>	High Ankle Hard Toe Safety Boot made with Rubber sole complying IS 15298 Part 2: 2024 or CE 0321 or EN ISO 20345	To be physically checked by the BOO and verified with relevant Certificates
2	<b>Boot</b>	<ul style="list-style-type: none"> <li>i) Boot should provide safety and comfort to the rescuers during hostile working environment of CSSR operation.</li> <li>ii) It should preferably have laces for quick and easy wearing.</li> <li>iii) The size of the boot shall be provided at the time of supply order.</li> </ul>	To be physically checked by the board of officers.
3	<b>Upper Construction</b>	<ul style="list-style-type: none"> <li>i. Upper should be made of full grain /black corrected grain leather.</li> <li>ii. It should have padding for comfort wearing.</li> <li>iii. Height of the upper should be in accordance with IS 15298 part 2, 5.2.1 /EN ISO 20344:2004, 6.2</li> <li>iv. Upper construction material should have the following characteristics:                             <ul style="list-style-type: none"> <li>a) Flame retardant upper with heat insulation (EN ISO 15025)</li> <li>b) Water resistance (EN ISO 20344:2004, 5.15.1 &amp; 5.15.2)</li> </ul> </li> </ul>	<p>(i) to (ii) - To be physically checked by the board of officers.</p> <p>(iii), iv.(a) &amp; iv.(b) - To be physically checked by the BOO and verified through relevant Certificates and lab test report</p>
4	<b>Sole/Heel</b>	<p>Sole should be made of PU/ Rubber</p> <p>Sole and Heel should consist of: -</p> <ul style="list-style-type: none"> <li>i. Flame/heat retardant property (EN ISO 20344:2004, 5.12 &amp; 5.13)</li> <li>ii. Fuel/oil resistant property (Chemical) IS 17011</li> <li>iii. Slip resistant.</li> <li>iv. Abrasion resistant for extra durability.</li> <li>v. Footwear shall comply with / High Voltage test as per ASTM F 2413/ ISO 20344:2004</li> </ul>	To be physically checked by the BOO and verified through relevant Certificates and lab test report
5	<b>Toe Cap</b>	<p>Toe cap should consist of:</p> <ul style="list-style-type: none"> <li>i. Non – Metallic toe cap designed to protect toes from impacts up to 200 J and compression at 15 KN (EN ISO 20344:2004, 5.4 &amp; 5.5)</li> <li>ii. Toe-cap should provide reliable protection in cold &amp; hot environment.</li> </ul>	To be physically checked by the BOO and verified through relevant Certificates and lab test report
6	<b>Sole Toe Cap Standardization</b>	Sole and Upper should comply with IS 15298 (part 1) 2024/ ISO 22568-2 & penetration resistance of insert ISO 22568-4.	To be physically checked by the BOO and verified through

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14		Size shall be in the range of 5 to 12 (UK/IND)	To be physically checked physically by BOOs.
15	Inspection of the finished product as per IS-2051	All finished pairs shall be examined usually for surface defects, finish and dimension. Firm to submit test certificate in support of the supplied shoes meeting the test requirement as per all relevant certifications mentioned above	

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