

Technical specifications and Trial Directives of Remote controlled lifebuoy

S.N	Parameters	Technical Specifications	Trial Directives
1.	Buoy Type	Remote Controlled Life Buoy used in FWR operations to rescue victims	BOO to check and verify the parameter through OEM certificate.
2.	Material	Mainly HDPE/Glass Fibre reinforced polyester/Reinforced Carbon Composite/or combination	BOO to check and verify the parameter through OEM certificate.
3.	Weight	Not more than 20 kg excluding battery	BOO to physically check and verify the parameter.
4.	Color & Visibility	High-visibility color (eg- Orange)	BOO to physically check and verify the parameter.
	Remote Control Features		
5.	Control Systems	Wireless remote control system (eg-radio frequency, Wi-Fi), remote control should have feature to set home position and return Lifebuoy to a designated home position.	BOO to physically check and verify the parameter.
6.	Range	Minimum 500 Mtr range for remote control	BOO to check and verify the parameter through OEM certificate.
7.	Speed	Adjustable speed with min 15 km/h (No Load)	BOO to check and verify the parameter through OEM certificate.
8.	Directional Control	Lifebuoy should be maneuverable, should operate in forward, left and right directions.	BOO to physically check and verify the parameter.
	Safety features		
9.	Floating	Minimum 150 kg/ Should have sufficient floatation to tow the person.	BOO to physically check and verify the parameter through OEM certificate.
10.	Lighting	Should have Led flash light	BOO to physically check and verify the parameter.
	Power and Battery		
11.	Power Source	Rechargeable battery (eg. Lithium-ion)	BOO to check and verify the parameter through OEM certificate.
12.	Battery Life	Minimum 30 min without load in still water	BOO to physically check and verify the parameter.
13.	Communication	There should be wireless communication between lifebuoy and Remote covering full range.	BOO to physically check and verify the parameter.

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Environmental and Durability		
14. Operating temperature	-5°C to 50°C	BOO to check and verify the parameter through OEM certificate.
15. Water Resistance	IP67 or higher of all electrical components	BOO to check and verify the parameter through lab test report from Govt./NABL accredited lab/International Lab.
Other Specifications		
16. Holding Area	Should have provision of holding Life buoy in water by the victim.	BOO to physically check and verify the parameter.
17. Propulsion	Impeller based enclosed pump system	BOO to check and verify the parameter through OEM certificate.
18. Certifications	IS/ISO/EN/CE Certified	BOO to check and verify the parameter through relevant certificate.
19. Warranty	2 years	BOO to check and verify the parameter through relevant certificate.
20. Comprehensive Maintenance	4 years	BOO to check and verify the parameter through relevant certificate.

VL
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