

QUALITATIVE REQUIREMENTS & TRIAL DIRECTIVES OF CLAW ATTACHMENT KIT FOR ROV

<u>S.NO</u>	<u>QR</u>	<u>TD</u>
1.	<p><u>General</u> Claw attachment kit of ROV should be a set of tools compatible with the gripper/claw of the ROV. These tools should augment the capabilities of ROV in terms gripping, cutting, rotating pulling etc.</p>	To be physically checked by BOO
2.	<p><u>Design</u></p> <p>(a) All attachments should be compatible with the ROV claw/gripper they are meant for.</p>	To be physically checked by BOO
	<p>(b) The components should be made of light weight material like aluminium or lighter alloys.</p>	To be physically checked by BOO
	<p>(c) All attachments should have minimum or zero vibration during operation</p>	To be physically checked by BOO
3.	<p><u>Operation</u></p> <p>(a) The claw attachment kit should facilitate the following functions through the claw of ROV-</p> <ul style="list-style-type: none"> (i) Cutting (ii) Scissoring (iii) Window breaching (iv) Vehicle/room door opening (v) Gripping objects of all shapes (vi) Puncturing wheels (vii) Hook placement (viii) Clamp placement (ix) Extend reach of the claw (x) Unlocking of doors 	To be physically checked by BOO
	<p>(b) All cutters and scissors should have removal blades.</p>	To be physically checked by BOO
	<p>(c) All cutters should have both ceramic and surgical blades and 50 spare blades of each type should form a part of the kit.</p>	To be physically checked by BOO
	<p>(d) The vehicle door opener must be able to open doors of all light and heavy vehicles introduced in the market in last 15 years calculated from the date of procurement.</p>	To be physically checked by BOO
	<p>(e) The tyre puncturing spikes should be able to puncture tyres of medium trucks/buses.</p>	To be physically checked by BOO
	<p>(f) The kit should have hooks of both open type and self closing type. The hooks should also have O rings at the base for attaching ropes and straps.</p>	To be physically checked by BOO
	<p>(g) The set of extension tubes should contain minimum four tubes of min 1 feet length.</p>	To be physically checked by BOO

	(h) The kit should contain a rotary joint assembly which can act as a pivot joint between two components of the kit.	To be physically checked by BOO
	(j) All claw grippers should have rubber and spike grip options.	To be physically checked by BOO
	(k) The kit should contain 02 x 2 metre straps and 02 x 1 metre straps which can be attached to the hooks	To be physically checked by BOO
3.	<u>Durability</u>	
	(a) Material used should not corrode due to atmospheric moisture	Certificate to be provided by OEM
	(b) Storage conditions should be- (i) Temperature- -10 to 55 degrees centigrade (ii) Humidity- 80%	Certificate to be provided by OEM