

QUALITATIVE REQUIREMENTS & TRIAL DIRECTIVES OF IEDD KIT

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1.	<p><u>General</u></p> <p>IEDD kit should provide a comprehensive set of explosive charges to full fill wide range of IED disposal tasks. The kit should include the following</p> <p>(a) Bottle shaped Omni-directional water disruptor.</p> <p>(b) User-filled modular 30mm shaped charge system.</p> <p>(c) Uni-directional user filled shaped charges.</p>	To be physically checked by BOO
2.	<p><u>Bottle shaped Omni-directional water disruptor</u></p> <p>(a) Disruptor should be a cylindrical container/ bottle which when placed next to target objects or in the cabin of vehicles, should cause general disruption of the suspected object.</p>	To be checked by BOO by conducting live blast
	<p>(b) Disruptor charges should be modular in nature which can be attached to each other to magnify the effect of disruption.</p>	To be physically checked by BOO
	<p>(c) Should not contain any explosives until they are loaded by the operator.</p>	To be physically checked by BOO
	<p>(d) The affect and capability of each kind of charge should be clearly defined in the operators manual.</p>	To be physically checked by BOO
	<p>(f) Disruptor should have scalloped walls which prevent the charges from rolling once deployed, and make it easier for two or more charges to be taped together to make large arrays when needed.</p>	To be physically checked by BOO
	<p>(g) Disruptor should be made from light weight material like high density polyethylene and ABS-polymer or better.</p>	OEM certificate to be provided mentioning the material used fro manufacture.
	<p>(h) The containers should be provided in min three sizes:</p> <p>(i) 250 ml</p> <p>(ii) 500 ml</p> <p>(iii) 1000 ml</p>	To be physically checked by BOO
	3.	<p><u>User filled modular shaped charge system(30mm & 65mm)</u></p> <p>(a) The charge can be loaded with a variety of projectiles and most types of military or commercial Plastic Explosives (PE). The explosive load can be adjusted to produce the desired effect.</p>
<p>(b) Charges are supplied with three aluminium legs that push-fit into the Screw Attachment. These facilitate positioning and aiming of the charge.</p>		To be physically checked by BOO
<p>(c) Should be made up of light weight material like ABS plastic or better.</p>		Certificate to be provided by OEM
<p>(d) Should contain shaped projectile set which include</p> <p>(i) Solid projectiles (Aluminum, Magnesium, copper etc)</p> <p>(ii) Liquid projectiles (water)</p>		To be physically checked by BOO
<p>(d) The effect and capability of each kind of shaped projectiles should be clearly defined in the operator's manual.</p>		To be physically checked by BOO
<p><u>Accessories</u></p> <p>(e) Aluminium legs for positioning of shaped charge</p>		
<p>(f) 45 degree stand</p>		
<p>(g) Underwater standoff capsule set</p>		
<p>(h) Shape charge loading kit</p>		
<p>(g) Flash suppressing water jacket</p>		

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4.	<p><u>Unidirectional user filled shaped charges</u></p> <p><u>Circular charge</u></p> <p>(a) Should be able to cut a circular hole on the side, door or roof of a vehicle to facilitate inspection of the contents and placement of a disruption charge.</p> <p>(b) Should have arrangements for placement with the help of ROV.</p> <p>(c) Hydra tape or breacher tape should be supplied with the charge for placement of charge on the target</p> <p>(d) Should be manufactured from light weight ABS plastic or better</p>	<p>To be checked by BOO by conducting live blast.</p> <p>To be physically checked by BOO</p> <p>To be physically checked by BOO</p> <p>OEM to provide certificate</p>
5.	<p><u>Brief case shaped user filled shaped charge</u></p> <p>(a) Shape charge in the shape of a briefcase, should be manufactured from light weight LDPE and ABS plastic or better.</p> <p>(b) Shaped-charge effect to be achieved using sheet explosive or detonating cord as the propellant and water as the projectile.</p> <p>(c) Boot Banger minimum size : 460 x 340 x 110mm</p> <p>Maximum Weight empty : 2.5 kg</p> <p>Maximum Weight when fully loaded Full : 17kg</p> <p>(d) On firing shape charge should project a powerful blade of high-speed water which will rupture the bottom of the car pushing the device out of the vehicle and disrupting it simultaneously</p> <p>(e) Should have arrangements for placement with the help of ROV.</p>	<p>OEM to provide certificate</p> <p>To be physically checked by BOO</p> <p>To be physically checked by BOO</p> <p>To be physically checked by BOO</p> <p>To be physically checked by BOO</p> <p>To be physically checked by BOO</p>
6.	<p><u>Window breaker</u></p> <p>(a) Should offer the user a one shot system to get access to a car or a building through glass windows.</p> <p>(b) Should be light weight and made up of ABS plastic or better</p> <p>(c) Should have arrangements for placement with the help of ROV.</p>	<p>To be checked by BOO by conducting live blast.</p> <p>To be physically checked by BOO</p> <p>To be physically checked by BOO</p>
7.	<p><u>Mini user filled shaped charges</u></p> <p>(a) The charges should produce targeted disruption of the object by projecting a blade of water towards the target.</p> <p>(b) Shape charge should facilitate placement by rover stand and ROV.</p> <p>(c) <u>Dimensions:</u></p> <p>(i) Minimum box shape user filled charge : 300 x 85 x 60mm</p> <p>(ii) Maximum empty shape charge : 0 .18 KG</p> <p>(iii) Maximum fully loaded shape charge : 1 kg</p> <p>(d) Should be light weight and made up of ABS plastic or better.</p>	<p>To be checked by BOO by means of live blast.</p> <p>To be physically checked by BOO</p> <p>To be physically checked by BOO</p> <p>To be physically checked by BOO</p>