

**Technical Specifications and other conditions for the procurement of**  
**Ultrathermic cutting equipment (Full set)**

Scope of Supply – Following items should be supplied in one set of Ultra thermic cutting equipment-

S.N.	Item	QTY
1.	Cutting torch with accessories	01 No.
2.	Hose and cable extension kit 30' long	02 Set
3.	Striker plate with 5' long power cable	01 Set
4.	Cutting rod extender 18"	01 No.
5.	Oxygen regulator	01 No.
6.	Battery clamps with quick connect	01 set
7.	Collets 3/16", 1/4", 3/8" & 1/2"	01 Set
8.	Cutting rod 1/4" x 18"	100 Nos.
9.	Cutting rod 3/8" x 18"	100 Nos.
10.	Cutting rod 3/8" x 36"	100 Nos.
11.	Under water cutting rod 3/8" x 18"	50 Nos.
12.	Safety items for operator – Goggles, head shield, gloves	02 Set
13.	Tool kit	01 No.
14.	Operating manual	02 Nos.
15.	Storage & carrying case	01 No.

**Technical Specifications –**

S.N.	Item	Specification
1.	Cutting torch	<p><b>Ultra thermic cutting torch should have following features-</b></p> <ul style="list-style-type: none"> <li>• Universal Ultra thermic under water cutting torch assembly with 5m long power cable &amp; hose with quick connectors.</li> <li>• Torch handle should be molded, reinforced and of thermo set heat resistant ABS plastic</li> <li>• Torch should have 2 oxygen control valves to control oxygen flow.</li> <li>• Primary valve should be lever operated and secondary valve should be of plug style with 90-degree motion from off to on to regulate the oxygen flow.</li> <li>• Torch should have detachable 18" long cutting rod extender.</li> <li>• Torch should be capable under water cutting efficiently.</li> <li>• Torch should be capable to accommodate cutting rods of 3/16", 1/4", 3/8" &amp; 1/2" dia. Cutting rods.</li> </ul>
2.	Hose and cable extension kit	<ul style="list-style-type: none"> <li>• Oxygen hose should be double walled &amp; kink resistant having internal diameter not less than 3/8". It should be filled with appropriate quick connectors. The length of extension oxygen hose should be not less than 30 feet.</li> <li>• Extension power cable should also be not less than 30 feet long of size 10 AWG with electrical quick connect.</li> </ul>

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3.	Striker plate	<ul style="list-style-type: none"> <li>Copper striker plate should have minimum 5 feet long power cable of size 6 AWG with electrical quick connect of cam lock E1010 series male plug.</li> </ul>
4.	Cutting rod extender	<ul style="list-style-type: none"> <li>18" long cutting rod extender &amp; having 3/8" outside diameter to facilitate the operator to do cutting application at difficult to reach areas.</li> </ul>
5.	Oxygen regulator	<ul style="list-style-type: none"> <li>Heavy duty oxygen regulator with output range of 0-200 PSI.</li> <li>Oxygen regulator should have inlet connection with O-ring seal and hand tighten and should be fitted with quick connect coupling on the output to match with hose coupler.</li> </ul>
6.	Battery clamps	<ul style="list-style-type: none"> <li>Battery clamps should be of copper plated steel.</li> <li>These should be fitted with appropriate quick connect and should be one of red &amp; other of black colour.</li> </ul>
7.	Collets	<ul style="list-style-type: none"> <li>Collect of sizes 3/16", 1/4", 3/8" &amp; 1/2" should be supplied in addition to one collect of size 3/8" fitted with torch.</li> </ul>
8.	Cutting rod	<ul style="list-style-type: none"> <li>Cutting rod should be alloy steel cored tubular and tubes should be of copper coated steel.</li> <li>Cutting rods should have minimum burn time in excess of one minute when oxygen regulator is set to 70 PSI (Dynamic pressure)</li> </ul>
9.	Safety items for operator	<ul style="list-style-type: none"> <li>Safety goggles, head screen/shield and welding gloves should be supplied with equipment.</li> </ul>
10.	Tool kit	<ul style="list-style-type: none"> <li>All the tools required for quick working and maintenance of equipment should be supplied in a appropriate box with the equipment.</li> </ul>
11.	Operating Manual	<ul style="list-style-type: none"> <li>Detailed operating, maintenance and service manual of the equipment along with technical literature and spare parts catalogue should be supplied with the equipment.</li> </ul>
12.	Storage & carrying case	<ul style="list-style-type: none"> <li>Durable plastic storage and carrying case should be supplied with the equipment. It should have wheels and extendable handle for easy towing/carrying.</li> </ul>
13.	Warranty	<ul style="list-style-type: none"> <li>Minimum 24 months warranty from the date of commissioning.</li> </ul>

#### Other conditions-

- I. Name of offered brand/make with catalogue containing complete technical specifications should be attached with offer, otherwise offer will not be considered.
- II. Material should be supplied as per specifications.
- III. Authorization or OEM certificate should be attached with offer otherwise offer will not be considered.
- IV. The supplier must have supplied a minimum of 10 Nos. of Ultrathermic Underwater Cutting equipment to Railways or any central government departments/PSUs and these should be working satisfactorily for two years. In the absence of the above information, the tender is liable to be rejected.

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