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Hydraulic Cold Cutting Equipment for ARME/ ARMV/SPARMV

Technical Specification for Hydraulic Cold Cutting Equipment with Pump for cutting Stainless Steel (SS)	
One set of Equipment consist of :- 1. Hydraulic Cutter with Blades. 2. Hydraulic Pump with power unit.3.Accessories 4. Spares Quantity: 03 for JBP Div., 04 for BPL Div., 02 for Kota Div., Total=9	
Purpose	Cutting stainless steel sheet of coach body, window bars, window frame channels, body panel sheet, roof sections, berth supports & pillars between windows and various body sections (Carbon steel sheet/stainless steel sheet/sun mica/plywood).
1.0	Capability Equipment should be capable of working on coach body. The cutter blade should be deep shallow parrot type and should be capable of cutting various body sections of stainless steel/mild steel/carbon steel sheets and ferrite stainless steel sections up to 5 mm thickness and round bar upto 40 mm dia having a tensile strength of up to 55 kg/mm ² . Equipment should also capable of working on coach body (partially or wholly submerged in water except the pump and power unit).
2.0	Design Features 1) The cutter should be double acting, Hydraulically operated by portable power pack unit consisting of light weight petrol engine and hydraulic pump and shall be supplied along with 0.5m long hose complete with a single quick coupling mounted at the end of the twin hose. 2) The Equipment should be light weight construction(Less than 20 Kgs.) and ergonomically designed for ease of handling and operation by single man. a) Blade opening - Not less 200 mm b) Reach - Not less 200 mm c) Capable of cutting stainless steel section/sheet- upto 5 mm thickness d) The cutter blade should be of shock resistant non corroding alloy steel, hardened and ground and shall be exchangeable and regrind able. 3)The working pressure at maximum capacity shall be 700 bars _{-3%}
3.0	Hydraulic Pump with Power unit 1) The pump shall be light weight portable type driven by 4 stroke petrol engine, The power of the engine should be sufficient to drive hydraulic pump capable of developing Hydraulic Pressure more than 700 bar and pulsation free flow to operate minimum one hydraulic cutting device in full load at a time. 2) The engine should be portable and designed to withstand frequent start, stops as demanded and capable to perform efficiently. Fuel tank capacity should be such that pump should work for minimum one hour on load. 3) An independent hose reel with two sets of return and pressure hoses of 20 m length each with a single quick coupling at the ends should be provided for ease of handling or a single hose system consisting of high pressure inner hose inside a low pressure outer hose of 2x10m length.

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		<p>4) The hydraulic oil shall be of non corrosive type. Oil of equivalent grade suitable for the equipment should be freely available in India from leading Oil companies.</p> <p>5) The following features, gauges/indicator and should be provided in power pack/pump unit.</p> <p>i) Engine :-</p> <ul style="list-style-type: none"> a) Single switch operation. b) Easy access for filling of fuel. c) Fuel level indicator/gauge. It should be possible to check the levels from outside. d) Protection cap for spark plug. e) Alarm for low oil level. <p>ii) Hydraulic Pump :-</p> <ul style="list-style-type: none"> a) Easy access for filling of Hydraulic oil. b) Pressure relief valve. c) Hydraulic oil level indicator/gauge. <p>6) Drain plug should be provided at the lowest position of the fuel/ Hydraulic oil tank. It should be possible to drain the oil/fuel from the tank without disconnecting any pipe or other fittings.</p>
4.0	Concomitant Accessories	<p>1. Pair of hydraulic hoses, aramid fiber reinforced for light weight, 20 m length, complete with single couplers at the both ends with metal dust caps for quick connection/disconnection. Couplings should be self locking, double action and should not get opened accidentally during operation. Both the male and female couplers shall have flat faces to avoid dust entering into system. Total weight of the 20m hose with quick couplers should not exceed 10 kgs for easy handling at heights -01 set</p> <p>Or</p> <p>In case of single hose system 2x10 m hoses with binding strap and couplers at both ends as above - 01 set</p> <p>2. One set of extra hoses of 10 m length for extending the operating hose length to 30 m complete with single couplings at the both ends as described at para 1 above</p> <p>Or</p> <p>In case of single hose system One set of 10 m hoses with binding strap as described at para 1 above.</p> <p>3. cutter blade (spare) – 01 set</p> <p>4. Quick change coupling with metal dust cap as explained at para 1 above – 02 sets.</p> <p>5. Short connection tool side hoses (only in case of two hose system with single coupler at end) – 01 set</p> <p>6. Storage case for accessories and tool – 1 no. each.</p> <p>7. First filling of hydraulic oil for pump and equipment, lubricating and fuel oil for engine (quantity and brand should be specifically mentioned) to be carried out by supplier/firm.</p>

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5.	Spares	Two lists of recommended perishable and non perishable spares required for normal maintenance to cover complete range of mechanical and hydraulic equipments (including controls should be furnished separately). The quantities should relate in case of non - perishable spares to two years normal maintenance and in case of perishable spares to the duration of its shelf life or two years whichever is less. These spares will be included in the scope of supply along with equipment.
6.0	Other Accessories	Any other accessory/ equipment which in the opinion of the tenderer/supplier can contribute to better performance of the equipment /rescue operation shall also be clearly indicated & rates should be quoted separately.
7.0	Installation & commissioning	<p>a) Contractor /firm should commission the equipment within 30 days from the date of intimation by the consignee regarding receipt of equipment.</p> <p>b) Contractor /firm or his agent would be required to inspect the consignment at the consignee end before unpacking is done and carry out a joint check with consignee about receipt of components/equipment.</p> <p>c) The equipment performance should be demonstrated by the Contractor or his agent after receipt at the consignee's works.</p>
8.0	Training	<p>i) In order to ensure highest utilization and keeping the equipment in proper state, adequate number of staff will have to be trained in operation and maintenance of this equipment. It should include practical demonstration of all the equipment and their proper utilization</p> <p>ii) Firm should impart training to the field staff in operation of the tools at the consignee place.viz;at JBP,BPL,Kota</p>
9.0	Warranty	The equipment should be guaranteed for satisfactory and trouble free operation for a period of 24 months from the date of commissioning.
10.0	Special Conditions to be incorporated in Eligibility criteria	<p>i) Offers from OEM and their authorized dealers with valid authorization will only be accepted.</p> <p>ii) Firms with past performance of having supplied similar tools to Indian Railways shall ^{should} only quote. Documentary evidence in this regard shall ^{should} be submitted along with the offer. Otherwise offer will not be considered.</p>

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Eligible Suppliers:

By *[Signature]*

Annexure-II

To be submitted by the firm along with offer-

Tender specification as per Annexure-I	Specification quoted by the firm	Deviation if any with clarification

Signature of firm's