

eSourcing reference: ITB/2024/53060

No	UNOPS Minimum technical requirements	Qty	Is your product compliant with UNOPS Minimum Requirement(Yes/No)	Technical specification of goods offered by bidder	Make and Model (Model or Brand, Model No. Country of Origin)	Remark (note for deviation and description of additional document attached with bidder offer)
1	SUPPLY, TESTING AND DELIVER HYDRAULIC BUTT FUSION WELDING MACHINE WITH ALL ACCESSORIES	26				
	Overviews of the Machines					
	On-Site Manual Hydraulic Butt Fusion Welding Machines are self-align and designed to butt weld HDPE pipes and fittings, such as elbows, tees, wyes, and flange necks, by adjusting the clamp's drag bar without needing extra equipment.		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Machine Components: Basic frame, heating plate, Planning tool/Milling cutter, hydraulic unit, a complete set of reduction insert clamps and Flange neck, Pipe roller, Support for heating & milling tools, Wrench, Pipe rollers		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Manual Hydraulic Butt Fusion Welding Machine with an Outer Diameter of 90 to 315mm		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Heating Plate: Detachable, PTFE coated aluminum with digital temperature control		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Trimmer/Planer: Electrical, for pipe end preparation and Equipped with a safety switch		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Hydraulic Unit: Integrated or separate, with hoses and pressure gauges and control valves		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Frame Material: Aluminum alloy or steel		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Accurate Pressure Metre: Equipped with a highly accurate, shockproof pressure metre for reliable operation		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Bead gauge, Pipe end cover and has a Shield		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Welding Capacity: Outer Diameter 90mm to 315mm		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Heating Plate Temperature Range: 250°C to 300°C (482°F to 572°F) with deviation in Temperature Control Accuracy: ±5°C		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Power Supply: 220 - 240V, 50Hz		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Total Power Consumption: ≤6 kW		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Hydraulic Pressure Range: 0 to 160 bar (Adjustable)		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Safety Features: Overheat Protection, Pressure Relief Valve, Emergency Stop Button, Temperature Control and safety interlocks		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	List OF SPARE PARTS					
	4pcs of Blades		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	4pcs of Outer clamp, Screws & clamps bolt		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Warranty: One year comprehensive warranty should be provided from the manufacturer		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	CERTIFICATION					
	Certification: Manufacturer ISO 9001 and CE (Conformity of Europeans via notified body or declaration of conformity) certificate		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Certification of ISO 12176 OR equivalent for HDPE Fusion Welding OR Joining Thermoplastic Equipment		<input type="checkbox"/> Yes <input type="checkbox"/> No			
1.2	SUPPLY, TESTING AND DELIVER "6 kW Outdoor and Weatherproof Diesel Generator"	26				
	Rated Power: at least 6 kW		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Maximum Power Output: 7 kW		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Engine Type: 4-stroke, air-cooled diesel engine		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Starting System: Electric starting system		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Charging System: Inbuilt 12V AC to DC battery charger		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Fuel Tank Capacity: ≥ 13 liters		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Handles: Foldable or retractable handles for easy transport		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Housing Material: Weatherproof, rust-resistant steel or aluminum enclosure		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Control Panel: Digital or Analog control panel with voltmeter, frequency metre, hour metre and various protection features like overcurrent and Overvoltage protection,		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	ALTERNATOR					
	Rated Output Voltage: AC 220 VAC, +/-10V; &380VAC +/-10V, Rated Frequency 50 Hz		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Outlets: More than one AC outlets of single phase or 3-phase		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Alternator: AVR (Automatic Voltage Regulation)		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Power Factor: ≥ 0.8		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Control Panel: Digital or Analog control panel with voltmeter, frequency metre, hour metre and various protection features like overcurrent and Overvoltage protection,		<input type="checkbox"/> Yes <input type="checkbox"/> No			

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	Handles: Foldable or retractable handles for easy transport		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Safety Features: Overload Protection, Low Oil Shutoff, Circuit Breaker, Ground Fault Circuit Interrupter (GFCI)		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	CERTIFICATION					
	CE (Conformity of Europeans via notified body or declaration of conformity) certificate		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Manufacturer ISO 9001: - For Quality management		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Warranty: One year comprehensive warranty should be provided from the manufacturer		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Should have a local agent/dealer to support in testing and after sales services required. If not, it has to commit/agree to arrange a local agent/dealer within three weeks after award.		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Manuals: One set of operation manual and service manual (English language) should be supplied with the HDPE Welding machine and generator.		<input type="checkbox"/> Yes <input type="checkbox"/> No			
2	ELECTRO MECHANICAL TOOLKIT					
2.1	Tool Storage: Mechanics tool box with 3 cabinets, each tool in its own carrying case.	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.2	Long arm hex key Metric Sizes (Allen head wrenches): (2-24mm) Made of Chrome Vanadium stainless steel Sizes: 2mm, 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.3	Standard Open-End Spanners (6-32mm): • Made of Chrome Vanadium stainless steel. • Sizes: 6x7mm, 8x9mm, 10x11mm, 12x13mm, 14x15mm, 16x17mm, 18x19mm, 20x22mm, 21x23mm, 24x27mm, 30x32mm	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.4	Bi-Hexagon Ring Spanners (6-32mm): • Made of Chrome Vanadium stainless steel. • Includes 10 double ring spanners: 6x7mm, 8x9mm, 10x11mm, 12x13mm, 14x15mm, 16x17mm, 18x19mm, 20x22mm, 21x23mm, 24x27mm, 25x28mm, 30x32mm.	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.5	Combined Ring and Open-End Spanners: (26 pieces) • Made of Chrome Vanadium stainless steel. • Metric Sizes: 6 - 7mm , 8 - 9mm, 10 - 11mm, 12 - 13mm, 14 - 15mm, 16 - 17mm, 18 - 19mm, 20 - 21mm, 22 - 23 mm- 24 - 25mm, 26 - 27mm, 28 -29mm, 30 - 32 mm	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.6	Socket wrenches, hexagon, square drive with accessories 10-32mm • Material: Type: Chrome-vanadium steel • Reversible Ratchet: Size: 1/2" • Spark Plug Socket: Size: 1/2" • Socket Extension: Size: 1/2" • Sliding T-bar: Size: 1/2" • Universal Joint: Size: 1/2" • Socket Size:10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, 24mm, 27mm, 30mm, 32mm. • Carrying Case	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.7	Spark plug spanner.	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.8	Universal Metal Hacksaw with 5 Different Hacksaw Blades,	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.9	Adjustable wrenches: Chrome plating: • 10-inch adjustable wrench. • 12-inch adjustable wrench.	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.10	Set of Universal Pliers and Standard Pliers The set includes: Long Nose Pliers, Diagonal Cutting Pliers, Groove Joint Pliers, Slip Joint Pliers, and Linesman Pliers with carrying cases or pouches	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.11	Screwdriver Set (PH+SL) 6-Piece The set includes Slotted Screwdrivers: • Sizes: 3 mm, 5.5 mm, 6.5 mm Phillips Screwdrivers: • Sizes: PH 0, PH 1, PH 2	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.12	Machinist hammer: 500g.	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.13	Machinist hammer: 1000g	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.14	5pc File Set: • 1pc Flat File, 1pc Angular File, 1pc Round File, 1pc Square File, 1pc Half-Round File	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Chisel Set		<input type="checkbox"/> Yes <input type="checkbox"/> No			

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2.15	The Set includes • Set includes 1/4", 3/4", and 1" chisels, and case • Cold Chisel 3/8", 1/2", 5/8"	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.16	Battery Service Kit • Battery Hydrometer • Battery Filler Bottle • Battery Charger and Tester • Battery Terminal Cleaner wire brush	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
			<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.17	Set of Feeler Gauges with minimum 10 blades	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.18	Wire brushes,	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.19	Vernier Caliper with Carrying Case	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.20	Steel tape rule, 5 m	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.21	Straight edges and string lines for aligning on street lines	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.22	Heavy Duty Bearing Puller/Extractor with 3 Leg Jaws; diameter 65mm and 120mm	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
	• Pulling design internal, external and reversible • Pulling diameter: ≥65 mm and ≥120 mm		<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.23	Combination Wrench (6- 32mm) Combination Ratchet Wrench Set (<i>the ring has tooth Gear Design for clockwise / anti-clockwise rotation</i>) with Carry Case/pouch Material: corrosion resistant Chrome Vanadium finish Metric Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
			<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.24	Hexagonal deep Socket set with 1/2" Drive Sockets, Hexagonal deep Socket set with 1/2" Drive Sockets, • Material: Chrome-vanadium steel • Reversible Ratchet size ½" • T-bar, Universal swivel Joint • Socket head type: hexagonal • Size: 10 – 30mm 10mm,11mm,12mm,13mm,14mm,15mm,16mm,17mm,18mm,19mm,21mm,24mm,30mm	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
			<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.25	Insulated Open Spanners Open End Wrench, 1000V Insulated 8mm, 10mm, 13mm, 14mm, 17mm, 19mm, 22mm, 24 with caring case/ tool roll bag has	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
			<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.26	Soldering Iron Kit with accessories a. Electric Soldering Iron • Power: 100 watts max, 230 VAC • Temperature Range: Variable temperature soldering tips o Tip Types: Conical, Bevel, and Chisel b. Solder Wire • Type: Lead-tin flux cored soldering wire • Diameter: Comes in various diameters ranging from 0.5 mm o Three different diameters of solder wires c. Solder Sucker • Vacuum Power: Typically operates at a vacuum power of 30 kPa to 60 kPa • Nozzle Size: Comes with different nozzle sizes to suit various soldering applications • Material: Made of high-quality, heat-resistant plastic or metal for durability and repeated use d. Soldering Station • Type: Thermally controlled soldering station with hot air gun and soldering iron • Power Rating: 1500 watts • Temperature Range: Hot Air Gun: 100-500°C • Temperature Control: Digital temperature control with the option to set and store temperature presets for different applications • Included Accessories: o A range of nozzles for the hot air gun o Interchangeable soldering tips Included Component: Soldering Iron Stand, De-soldering Pump, Tweezers, Cleaning Sponge, Soldering Iron Cleaning Ball, Carry Case:	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
			<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.27	Electrician scissors	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.28	Tweezing	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.29	Magnetic tools (Magnetic Pick Up Tool Set)	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.30	INSPECTION TOOLS FOR THE ELECTROMECHANICAL TOOLKIT IN A WATER SUPPLY PROJECT TYPICALLY INCLUDE:					
	Digital Multimeter		<input type="checkbox"/> Yes <input type="checkbox"/> No			

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2.30	<ul style="list-style-type: none"> Measures voltage, current, resistance, continuity, and diode test Measuring Range: 600V, 10A Power Supply: 9V Alkaline battery. Kit includes digital multimeter, pairs of probes, carrying case 	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.31	Digital Insulation Resistance Tester <ul style="list-style-type: none"> Digital Insulation Resistance Tester, Resistance Megohmmeter, Voltage Tester AC/DC, Kit Includes: Digital Insulation Tester, 2 x Test leads, 2 x Crocodile clips, Shoulder strap, batteries, User Manual[English]. 	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
2.32	Digital Tachometer <ul style="list-style-type: none"> Measuring the rotational speed of machinery such as pumps, turbines, motors, and engines Power Supply: 9V battery/ rechargeable battery pack Kit includes: Reflective Tape (for non-contact measurement), Carrying Case, User Manual (languages English) 	27	<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Shall meet CE (Conformity of Europeans via notified body or declaration of conformity) and Manufacturer ISO 9001 quality standard for all tools		<input type="checkbox"/> Yes <input type="checkbox"/> No			
3	HEAVY DUTY RATCHET PIPE CUTTER, THREADER KIT WITH CARRYING CASE	40				
	Portable Manual Hand-Held 1/2" to 3" Ratchet Pipe Threader Set Kit with Pipe threader set (threader die heads), Pipe vise, Pipe cutter and Tripod stand		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Portable Manual Hand-Held Ratchet Pipe Threader Set Kit		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Accessories: Includes necessary tools such as threader die heads, pipe vise, pipe cutter, and tripod stand for comprehensive pipe threading tasks.		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Pipe Threader and Pipe Cutter Set		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Type: Manual ratchet-operated with interchangeable die heads for threading pipes.		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Adjustable length for different size up to 3 inches.		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Tap dies Range: 1/2" to 3"		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Manual driven pipe threading wrench set kits: tripod stand, pipe vise, pipe threader set (threader die heads), pipe cutter		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Shall comply with ASME B31		<input type="checkbox"/> Yes <input type="checkbox"/> No			
4	Heavy Duty Pipe Wrench <ul style="list-style-type: none"> Material: Constructed from Ductile Aluminum with iron cast alloys I-beam handle and C60 high carbon steel jaw. Heat-treated and high-frequency quenched teeth Precisely machined for a light and secure grip on workpieces. Jaw Opening: Manually adjustable size from 1.25 to 5 inches (31.75 to 127 mm). Length: ≥36 inches (914.4 mm). Jaw Surface: Fine teeth and dense chrome coating for corrosion protection and wear resistance. 	40	<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Delivery time		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Bidder shall deliver the goods within 60 days after contract signature on FCA 2020 incoterms.		<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Bidder shall deliver the goods DAP within 120 days after Contract signature.		<input type="checkbox"/> Yes <input type="checkbox"/> No			