

03. SCOPE OF SUPPLY AND TECHNICAL SPECIFICATIONS

DUPLICATE

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3.1 SCOPE OF SUPPLY

3.1.1. The supplier is responsible for the Supply and Commissioning of 02 Nos. Diesel Engine Driven Welding Generators designed for pipe welding and mounted each to Four-Wheeled Steerable Yard Trailers, complete with accessories in compliance with this bidding document. All equipment supplied shall be brand new models and of currently in production and shall not be obsolete.

The scope of supply shall generally include, but shall not be limited to the following.

3.1.2. 02 Nos. Diesel Engine Driven DC Welding Generators as per the specifications below.

3.1.3. Following accessories shall be accompanied with Diesel Engine Driven Welding Generators.

Item	Description	Qty.
1	Wireless remote control (Wi-Fi pendulum control) with protective covers (02 Nos.) with following options, Start/Stop the Engine, Change Weld Modes, Adjust Welding Output, Adjust Weld Settings, Check Fuel Level	02
2	Cable Connectors	08
3	Cable Rack each shall be attached to Diesel Engine Driven Welding Generators Trailers	02
4	Spark Arrestor Kit Mounts to muffler exhaust tube to eliminates spark emissions (shall fixed one to each Diesel Engine Driven Welding Generator)	02
5	400A Electrode Holder with Cable (50m for each). Welding holder shall be from same manufacture of welding generator.	04
6	500A Work Clamp with Cable (10m for each)	02
7	Full-KVA Adaptor and Plug Kit (1-Phase) 120 V	04
8	Full-KVA Power Plug and Plug Kit (1-Phase) 240 V	04
9	Weld Size Gauge Butt & Fillet Weld Welding Gauge mm Stainless Steel	04
10	Portable Welding Rod Oven for heating of low hydrogen electrodes to 120 °C or more and has capacity for 10 LBs of consumables 50Hz, 240V with Power indication bulb.	02
11	Industrial Flint Striker with Flint Striker Replacements Flints (05 Pack)	02

3.1.4. Operation, workshop, maintenance & service and spare parts manuals (in triplicate) in English language for all equipment and accessories shall be supplied. Circuit diagrams with complete technical specifications for all instrumentation and controllers shall be supplied. This shall include a set of reproducible and two (02) sets of hard copies and additional soft copies.

Signature of the Bidder: Date:.....

(Common Company Seal)

3.2 TECHNICAL SPECIFICATIONS

The bidder shall indicate whether the required specifications are met by them by marking (Yes) if it meets/comply the requirements and (No) if it is not, in front of each requirement/specification in the right-hand corner of each item. Variations and/or deviations from specification, if any, shall be illustrated clearly in detail. Complete technical specification details shall also provide together with following.

Nos.	Specification	Description	Compliance Yes/No
1	Design	Diesel Engine Driven Welding Generator shall be designed for pipe welding and shall have Dedicated Pipe Welding Mode	
2	Rating	Heavy duty/DC Welder	
3	Rated output	400 A / 26V / 60% 400A / 24V / 100%	
4	Welding Output range	Stick/Pipe (SMAW): 30 – 400 A, Arc Gouging : 60 – 400 Amps, TIG 20–400 A	
5	Casing	Compact Case with Stainless Steel Enclosure, engine access with lockable door	
6	Engine	Diesel Engine – 3/4 cylinder (1500 RPM or more), Water/coolant -Cooled Diesel Engine, 12V Electric Start, Dry Type Air Cleaner, Fuel Filter with Water Separator, Mechanical Governor	
7	Engine gauges	Fuel, oil pressure and engine temperature gauges	
8	Driving Method	Direct couple to the engine	
9	Fuel tank	70 litres or higher for long run time over 16 hours of welding at 150A/100% duty cycle output	
10	Processes	Stick, TIG, MIG, Flux-Cored, Gouging	
11	Sound Level	74 dB or lower at 7 m distance when fully loaded	
12	Controls and indicators	1. Weld Mode Selector Switch 2. Run/Stop Switch 3. Hour Meter 4. Start Pushbutton 5. Engine Idler Switch 6. Fuel Level, Engine Temperature and Oil Pressure Gauges 7. Engine Protection Light 8. Engine Battery Charging Light with User Interface Protective Cover	
13	Power output	115/240-volt AC 50Hz power outlet for 1-Phase AC auxiliary power for equipment such as lights, grinders and other common construction tools.	
14	Four-Wheeled Steerable Yard Trailer with Dual Hitch	For off-road, plant and yard use. Includes an automatically engaging drawbar lock when the drawbar is raised to the vertical position. Wheels. Wheel bearings are packed with high viscosity, high pressure, and low washout grease.	

		Welded rectangular steel frame construction is phosphate etched and powder-coat painted for superior rust and corrosion resistance. Shall be fixed to each Diesel Engine Driven Welding Generators.	
15	Application	These machines shall be suitable for Heavy Industrial Cross-country pipeline Process pipe welding (ASME qualified pipe welding) and outdoor use including weather proof canopy.	
16	Change DC polarity	Polarity Reversing Switch. Changes DC polarity without the use of tools.	

Other Requirements

- I. Equipment must be manufactured in and originate from either Japan, Europe, North America, or Australia. Countries specify for country of origin and country of Manufacture has been done for the sole purpose of defining and establishing standards of quality and performance and with the intention of restricting low-quality products.
- II. Shall have an authorized accredited agent in Sri Lanka and local agent shall have established, fully approved work shop to carry out the necessary maintenance work.
- III. The coupled engine should be one commonly used in Sri Lanka with a reputed local agent.
- IV. Once the order is established the supplier should forward workshop manuals, spare parts catalogues, and operation manuals in English language for both engine & generator along with the shipment. Electrical wiring diagram for machine also to be submitted.
- V. The performance test of the offered machine model will be done in Sri Lanka at the supplier's/ accredited agent's work shop/facility or at any organizations to whom they have supplied identical machines, witnessed by official from Ceylon Petroleum Storage Terminals Limited.
- VI. The performance of all machines will be tested by Ceylon Petroleum Storage Terminals Limited at its premises after the delivery.
- VII. Warranty
Supplier should give a manufacturer's warranty for all the equipment supplied for a minimum 12 months from the date of commissioning.
- VIII. Services
Initial service of the both welding generators after the manufacture recommended running hours shall be included.

- IX.** Bidders are required to forward the following details along with the bid for evaluation purposes.
- i.** Internationally published original Technical Literature conforms to above items.
 - ii.** Product catalogue in English language to be supplied along with the bid for evaluation.
 - iii.** Any technical literature available in the form of soft copies (in English language)
 - iv.** Complete spare part list including all optional switches, drawing and diagram of engine and generator.
 - v.** List of recommended spare parts and the cost for a period of two (02) years of operation. This will not be considered directly for the evaluation.
 - vi.** Manufacturer's recommended lifespan of the equipment.
 - vii.** Certificate from the manufacturer confirming the items offered are brand new and of currently manufacture.
 - viii.** Variation and/or deviations from specifications if any should be indicated.

Signature of the Bidder: **Date:**.....

(Common Company Seal)