



नेपाल सरकार
ऊर्जा, जलस्रोत तथा सिंचाइ मन्त्रालय
जलस्रोत तथा सिंचाइ विभाग
भूमिगत जल सिंचाइ आयोजना



प. सं.: २०८३/८४

च. सं.: ६९

मिति: २०८३।०६।१९

विषय: आ.व. २०८३/८४ को लागी दररेट पेश गर्ने सम्बन्धि सूचना ।

यस भूमिगत जल सिंचाइ आयोजना, झापाका लागि तपसिलमा उल्लेखित सामानहरू यस आ.व. २०८३/०८४ मा खरिद गर्नुपर्ने भएकोले पन्ध्र दिनभित्र सूचीकृत भई दररेट सहित कार्यालयमा निवेदन दर्ता गर्नुहुन अनुरोध छ। साथै यस कार्यालयबाट स्वीकृत गरिएको स्पेशिफिकेशन यहि सूचनाको साथमा रहेको छ।

सूचीकृत गर्नका लागि चाहिने आवश्यक कागजातहरू

१. यस कार्यालयलाई सम्बोधन गरी सूचीकृत हुनका लागि लेखिएको निवेदन।
२. कम्पनी/फर्म दर्ता प्रमाणपत्र।
३. अद्यावधिक कर चुक्ता प्रमाणपत्र।
४. प्यान/भ्याट दर्ता प्रमाणपत्र।
५. अन्य आवश्यक कागजात।

तपसिल

१. ६०० CFM/ २५० psi कम्प्रेसर मेशिन
२. ६२.५ के.भि.ए जेनेरेटर
३. ४५ एच.पि. ट्रक्टर

माथि
६/१९

आयोजना प्रमुख
आयोजना प्रमुख

Technical Specification of Diesel Generator Set with VFD Board and Portable Trailer Body

Quantity- 1 unit

S. No.	Criteria	Required Specification	Offered Specification
1.	General	The Portable 3-phase Diesel Generator set, mounted on a common base framed trolley with suitable coupling for towing. The base frame shall be mounted with anti-vibration mounts/friction pads. The complete unit shall be suitable for continuous outdoor operation under the climatic conditions of Nepal.	Make: Model: Country of Origin:
2.	Engine	The diesel engine shall be 4 stroke, single action with multi cylinders. Rated power at full load condition shall not be less than 55kW. The engine shall be turbo charged with radiator for cooling and electrical starting arrangement with battery to start the engine. The engine shall also have accessories and gauges like indicators, filters and protection devices for the following faults or abnormalities, not limited to: a. Cooling water temperature high b. Lubrication oil pressure low c. RPM meter d. Battery charging ammeter	Make: Model:
3	Alternator	The generator shall be capable of delivering 62.5kVA output at 0.8 power factor with the terminal voltage differing from the rated value of not more than $\pm 4\%$ and the frequency not more than $\pm 4\%$. The generator stator and rotor windings shall have class H insulation meeting the temperature limitations.	
4	Generator Panel	The generator panel shall be of CRCA sheet steel of not less than 14 & 16 SWG thick , floor mounting, free standing, dust and water proof, sheet metal enclosed cubicle type. The panels shall be complete with fuse switch / circuit breaker, protective relays, instruments, switches, fuses, indicating lamps, annunciation windows etc. as specified. Indicator for following but not limited to shall be given for : • Lub oil low pressure • Engine over speed • High water temperature • Fuel level low	

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		• Engine starting failure • Battery charge low	
5.	VFD (Variable Frequency Drive) Board	A Variable Frequency Drive board shall be supplied for driving variable speed motor load of maximum 30 HP. VFD input: 3 phase, 415V $\pm$ 10%, 50Hz. Output: 3 phase, 0-415V variable, 0-50Hz variable, vector/V-Hz control mode selectable. The VFD panel enclosure shall be minimum IP42, floor/wall mounted as suitable, with cooling fan and forced ventilation for the drive.	
6.	Acoustic Enclosure	Acoustic hood for housing the DG set to be mounted on a platform. The maximum noise level shall not be more than 75 decibels at 75% load. The enclosure shall be of totally weather, vermin and dust proof to enable the generator to operate at an ambient temperature of 40°C.	
7.	Earthing System	The complete DG set has to be earthed with adequately thick copper flat with duplicate earth connection separately for alternator and control panel.	
8.	Instructions	All signs and instructions in the equipment shall be in English.	
9.	Manuals	One Copy of the Operator's and Owner's instructions and maintenance manual in English shall be supplied with the equipment.	
10.	Tools	A set of tools as required for general maintenance shall be supplied.	
11.	Proven Performance	The equipment offered shall be under standard production by the manufacturer for at least Two years .	
12.	Warranty	Manufacturer shall provide a minimum of One year after acceptance .	
13.	Delivery and installation	The Diesel Generator set with portable trailer body, 1 unit with all necessary accessories shall be delivered in premises of: Ground Water Irrigation Project, Jhapa	

Note:

- The major items are indicated by bold and highlighted letters/alphabets/figures in the technical specifications. Non-compliance of these major items will result in non-responsiveness of the bid offer.
- The bidder must submit documentary evidences/ manufacturer declaration showing that all the requirements are satisfied.

Prepared by
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Technical Specification of Portable High-Pressure Air Compressor

1 unit

S. No.	Criteria	Required Specification	Offered Specification
1.	General	Portable, trailer amounted, diesel-engine-driven high-pressure air compressor suitable for deep tubewell Suitable for well casing up to 10 inch (250 mm), borehole up to 17.5 inch (445 mm), well depth up to 150 m, air-lift discharge up to 25 lps for maximum depth.	Make: Model: Country of Origin:
2.	Free Air Delivery (FAD)	Not less than 600 CFM at rated working pressure	
3.	Rated Working Pressure	Not less than 250 psi continuous	
4.	Duty Cycle	Continuous duty, minimum 10 hours/day, without derating	
5.	Prime Mover (Engine)	Diesel, water-cooled, with at least 250 hp power; electric self-start with manual back-up; fuel tank sized for minimum 8 hours full-load running.	
6.	Engine Protection	Automatic shutdown/alarm on low lube-oil pressure, high coolant temperature and high air discharge temperature.	
7.	Air Receiver & Safety Valve	Minimum 100 litres , built to a recognized pressure-vessel code, fitted with pressure gauge, drain valve and certified safety relief valve set at not more than 110% of maximum working pressure.	
8.	Mobility / Chassis	Heavy-duty steel chassis on pneumatic-tyred wheels , towable behind a tractor, with tow hitch, safety chain, parking brake, wheel chocks and road-legal lighting.	
9.	Enclosure & Noise	Weatherproof, lockable acoustic canopy; noise level not more than 75 dB(A)	
10.	Controls & Safety	Control panel with discharge pressure, oil pressure, coolant temperature, hour-meter and fuel gauge; accessible emergency-stop; chassis earthing terminal.	
11.	Emission & Applicable Standards	Diesel engine compliant with an applicable emission norm	
12.	Standard Accessories	Eductor pipe adaptor set, tool kit, first fill of oil/coolant/grease.	
13.	Warranty	Minimum 1 year after acceptance	

S. No.	Criteria	Required Specification	Offered Specification
14.	After-Sales Support	Confirmed availability of authorized service and genuine spares in-country for a minimum of 2 years from supply.	
15.	Delivery and installation	The Portable High-Pressure Air Compressor set with portable trailer body, 1 unit with all necessary accessories shall be delivered in premises of: Ground Water Irrigation Project, Jhapa	

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Technical Specifications Tractor with Hydraulic 2 Wheel Trolley

Quantity: 1 Unit

S. N.	CRITERIA	REQUIREMENT	OFFERED SPECIFICATION
1	General	Heavy duty tractor with hydraulic system , suitable for operation in rural, earthen and muddy road conditions with ambient temperature range of -50C to + 45oC.	Make: Model: Country of Origin:
2	Engine of the Tractor	Water cooled diesel engine , 4 stroke, developing rated maximum power output not less than 45 HP at rated RPM with an efficient fuel injection system to all loads and operating conditions. The engine shall be fully equipped with all necessary items/ accessories and controlling devices for safe, smooth, efficient, economical operation and optimizing vehicle performance producing lesser amount of pollutants.	Make: Model:
3	Gauges	Fitted with all the gauges, indicators, signals as necessary for efficient operation, functional monitoring, performance and maintenance that includes battery charge indicators and other instrumentation of all standard items of offered model	
4	Transmission and Clutch	Manual shift, forward minimum 8 Speed and backward minimum 2 Speed , as per the standard, through control at driver. Constant Mesh Single clutch system.	
5	Suspension	Suitable for toughest terrain, smooth ride, stable handling and comfortable driving conditions.	
6	Fuel Tank Capacity	Minimum 50 liters	
7.	Tyres	As per standard	
8	Steering	Power assisted/ Power Steering	
9	Brakes	Wet type brake System in the tractor and additional mechanical/electrical parking brake.	
10	Canopy	All metallic canopy with driver seat and extra 2-seats on the back (wheel top position) with insulation on roof.	
11	Chassis and Towing Arrangement	Heavy duty structure suitable for rough road conditions with strong towing arrangement	



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12	Hydraulic Lifting Capacity	At least 1500 kg	
13	Hydraulic Lift Trolley with Wheels	Locally fabricated or branded, heavy duty 2 Wheel hydraulic Trolley with the arrangement to be tow in the Tractor. The boom capacity of the hydraulic system should be at least 10 tons , load capacity of minimum 1500 kgf, dimension not less than 6*10 *(2+2**), folding at 2*, with standard channel, angles and square pipes. MS material on the Floor should be at least 3 mm thick and, on the wall at least 2 mm thick. 9.00/20 standard size tyre with Axle leaf spring suspension.	
14	Essential Accessories	1. Side/Back Lights 2. Head Light 3. Speedometer /Odometer 4. Suitable Jack with Handle To be equipped with all accessories of tractor vehicle offered in standard model.	
15	Instructions	All signs and instructions shall be in English.	
16	Manuals	The Operator's and Owner's Instructions and maintenance manual in English shall be supplied.	
17	Tools	A set of tools, with a tool bag, as required for general maintenance shall be supplied.	
18	Color and Sticker	Standard Color and Sticker as per the design and logo advised by the client	
19	Proven Performance	The tractor offered shall be a current model under standard production by the manufacturer for at least two years .	
20	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance .	
21	Delivery	The tractor with hydraulic trolley, 1 unit shall be delivered to: Ground Water Irrigation Project, Jhapa	

Note:

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- The bidder must submit documentary evidences/ manufacturer declaration showing that all the requirements are satisfied.

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