

OIL & GAS DEVELOPMENT COMPANY LIMITED
PROCUREMENT DEPARTMENT, ISLAMABAD
FOREIGN SECTION A

(To be completed, filled in, signed and stamped by the principal)

ANNEXURE 'A'

Material 300 KVA GENERATOR SETS
Tender Enquiry No PROC-FA/CB/C&ESS-3123/2017
Due Date
Evaluation Criteria MAIN ITEM

SCHEDULE OF REQUIREMENT

Sr No	Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price C & F BY SEA	Total Price C & F BY SEA	Deviated From Tender Spec. If Any
1	300KVA,Electric Gen: Set, 415/240Volt, 03 Phase,04 wire,50Hz, with min: 320-360 HP, 4stroke,6cylinder industrial diesel engine,EFL,auto shutt off,with Canopy, (details attached)	Sets	2					

Note:

- i. **Bid bond**:-Pursuant to tender clause # 2.2, 11.4, 13 & 35.3.2, bid(s) must be accompanied by an upfront bid bond in the form of pay order/ demand draft or bank guarantee issued by scheduled bank of Pakistan or a branch of foreign bank operating in Pakistan, for an amount of US\$ 2,500/- (US\$ Two thousand five hundred only) or equivalent Pak Rupees, with technical bid and valid for 150 days from the date of opening of the bids. The bank guarantee must be issued in accordance with the format as per Annexure-C of the tender documents.
- ii. **Shipment from ACU member Countries**: In case of shipment from ACU member countries, the LC beneficiary should be of that particular country from where the consignment is being shipped.
- iii. **Terms and conditions**:-Bidders are advice to carefully read all the terms and conditions of the Tender Document available at OGDCL web site in the master tender document.
- iv. **Summary rejection criteria** : - The summary rejection criteria at clause 35 of the tender document may also be examined carefully. Any bid not meeting the criteria spelled in the clause # 35 shall be summarily rejected without any right of appeal. The detailed tender document is available on OGDCL website as" Master set of tender document-Foreign".

Technical specifications of machine, terms and conditions
300 KVA Generator set.

300 KVA generator set with diesel engine, and canopy complete package.

1. **ENGINE**

- i. Industrial water-cooled diesel engine 4-stroke, 6 cylinders, Turbo charged. Emission standard Tier-ii.
- ii. Cartridge type oil and fuel filter, dry type air cleaner.
- iii. Minimum engine horse power 320- 360 HP(240- 260) KW suitable for full load efficiency.
- iv. Electrical system 24 volt DC. Consisting of control panel, protection devices and battery charging circuits.
- v. Electronic fuel injection system. **Fuel economy should be the main factor in technical evaluation.** Machine with low fuel consumption will be preferred in this regard manufacturer's certification will be required.
- vi. Recommended engine makes are **CAT USA, Perkins, VOLVO & Cummins England or equivalent.**

2. **GENERATOR**

- i. Generator latest model with all standard accessories.
- ii. Voltage 415 / 240 V, 3 phase, 4 wire.
- iii. Frequency 50 Hz
- iv. Out put rating 300(Prime Power) KVA min.
- v. Power factor 0.8
- vi. Self excited brush less alternator.
- vii. Insulation system is class 'H'.
- viii. Provided with automatic voltage regulator.
- ix. Provided with 3-pole molded case main circuit breaker along with other suitable different ratings for load distribution.
- x. Ambient temperature 50°C, better preferable 55 °C .
- xi. Standard degree of protection 'IP23'
- xii. Recommended alternator makes are **Newage Stamford UK, Leroy Somer France, Marelli Italy, Caterpillar USA, Siemens Germany or equivalent**

3. **GENERAL REQUIREMENT**

- i. Complete Generating set should be skid mounted on heavy duty fabricated steel base frame with lifting eyes for crane.

- ii. The engine and alternator should be close coupled of an SAE flange, eliminating any possibility of misalignment after prolonged use.
- iii. The engine and alternator assembly be isolated from steel base frame, with anti-vibration mounts.
- iv. Fan, fan drive, radiator and battery charging alternator should be fully guarded for personal protection.
- v. Base frame design should incorporate an integral fuel tank mountable / un-mountable with nut/ bolts for easy cleaning, with a capacity for approx. 08 hours running. The tank be provided with all necessary accessories.
- vi. Heavy-duty industrial type exhaust silencer.
- vii. Tropical radiator and cooling fan be designed to cool the engine in ambient temperature up to 50°C, better preferable 55 °C.
- viii. Complete set should be provided with weather proof and sound attenuated enclosures must be fabricated /manufactured by assembler. The enclosure should be compact designed with the access to the equipment, provided by generously sized lockable doors. Alternator and engine control panel should viewable through lockable access doors. All metal canopy parts are to be painted by electrostatic polyester powder paint. Thermally insulated engine exhaust system. Emergency stop push button installed on canopy.
- ix. Control panels should be equipped with
 - a. Volt meter
 - b. Ampere meter
 - c. Frequency meter
 - d. Techo meter
 - e. Hour run meter
 - f. Coolant temp. gauge
 - g. Oil pressure gauge
 - h. Battery condition volt & amp meter
 - i. Key switch off/run/preheat/start
 - j. Volt meter phase selector switch
 - k. Ampere meter phase selector switch
 - l. Emergency stop button
 - m. Lamp test button
- x. 3 Pole molded case circuit breaker mounted on distribution panel of generating set in a vibration isolated sheet steel box with adequate access for incoming and outgoing cables.
- xi. Sheet metal battery box with 12 volt battery mounted on the skid.
- xii. Circuit breakers should be factory tested for over current short circuit, under voltage thermal and magnetic tripping.
- xiii. Engine safety devices are required to be provided for over speed, low oil pressure and high water temperature, with indicators. Latest automation of auto shut off system.

4. **TERMS AND CONDITION**

- i. Provide detailed technical specifications, brochures of the manufacturer in original in English along with the bid otherwise bid shall be rejected at the time of tender opening.
- ii. Engine, Alternator and Sound Proof Enclosure (Canopy) must be of same OEM and assembled/coupled at OEM facility.
- iii. All specifications of the machine and country of origin (Where manufactured and assembled) should be mentioned in data summery sheet; otherwise the bid shall be rejected.
- iv. Availability of spares after sales service in Pakistan has to be ensured, firm will attach address of their own / authorized workshop, telephone/fax no. with the offer without which, the bid shall be rejected.
- v. Confirm population of machines in Pakistan. Population list must be provided along with the bid.
- vi. **Evaluation will be done on main equipment basis.**
- vii. The bidder must provide specifications of each item in schedule of requirement of quoted model.
- viii. All the bidders are advised to comply strictly with the tender specifications and no deviation shall be allowed.
- ix. **Comparison of technical specifications must be provided, supported by technical brochure / literature.**
- x. Authorization letter from the manufacturer for participation in this tender must be provided. The bidder should be the authorized dealer of the manufacturer.
- xi. The engine and generator being supplied must be supported by warranty of original manufacturer.

5. **QUALITY STANDARDS**

- i. The equipment should meet the following standards
ISO 3046, BS 5000, IEC 34, BS 4999, VDE 0530 & BS 5514

6. **DOCUMENTATION**

- i. A full set of operation, maintenance/ shop manual and parts catalogue (both for engine and generator spare) be provided with each unit (original).
- ii. Generator factory test report / certificate be provided.

7. **WARRANTY**

All equipment should have 12 month warranty from the date of Commissioning.

8. **TOOLS**

One set of all necessary tools and testing equipment be provided with each unit.

9. **SPARES**

Price list of spares be provided for first 1000 hours running with the technical bid, for selection by the purchaser.

10. **INSPECTION**

Pre-delivery inspection will be carried at our KBS base store Karachi in the presence of representative of supplier. Free operation and maintenance training will be arranged by the supplier for operators.

11. **COMMISSIONING**

The set to be commissioned at OGDCL field premises by the supplier free of cost.