

लुम्बिनी प्रदेश सरकार प्रदेश पूर्वाधार प्राधिकरण राप्ती उपत्युका

क्याटलग सर्पिगिबिधि बाट जेनेरेटर खरिद सम्बन्धी सिलबन्दी प्रस्ताव आव्हानको सुचना

(प्रथम पटक प्रकाशित मितिः २०८२/०२/०३)

यस प्रदेश पूर्वाधार विकास प्राधिकरणको आ.व. २०६१/०६२ को स्वीकृत कार्यक्रम अनुसार जेनेरेटर खिरद गर्नुपर्ने भएकाले सार्वजिनक खिरद ऐन, २०६३ को दफा द को उपदफा १ खण्ड (क) को द तथा सार्वजिनक खिरद नियमावली, २०६४ को नियम ३१ (ख) बमोजिम उत्पादक तथा अधिकृत बिकेताद्वारा निर्धारित दरमा (क्याटलग सिपंग) विधिबाट खिरद गर्नुपर्ने भएकाले इच्छुक इजाजत प्राप्त उत्पादन कम्पिन वा त्यसको आधिकारिक बिकेताहरुले, आ-आफ्नो फर्म दर्ताको प्रमाणपत्र, एजेन्सी दर्ता प्रमाण पत्र, Letter of Authorization, आ.व. २०६०/०६९ सम्मको आयकर चुक्ता र स्व्घोसणा समावेस गिर उत्पादकको आधिकारिक स्पेसिफिकेसन गुणस्तर, मूल्य र सुविधा सिहतको विवरण (क्याटलग) संलग्न राखी यो सुचना प्रकाशित भएको ७(सातौ) दिन बेलुका ५ बजे भित्र यस कार्यालयमा प्रस्ताव पेश गर्नुहुन उत्पादक वा आधिकारिक विकेताहरूको जानकारीको लागि यो सुचना प्रकाशित गरिएको छ ।

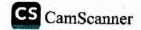
ऋ.सं	सामानको विवरण	स्पेसिफिकेशन	कैफियत
۹.	Supply installation testing and commissioning of 62.5 KVA/3 phase/415v,50Hz Fully Automatic Silent Diesel Generator Set Including all Accessories as per Detailed Specification	As per Detailed Specification	प्रस्ताव खोल्ने मिति २०८२/०२/०९ गते बेलुका ०५:१५ बजे प्रदेश पूर्वाधार विकास प्राधिकरणमा

र्इ.छविराज पोखेल

प्रमुख कार्यकारी अधिकृत

(प्रमुख कार्यकारी अधिकृत)

Technical Specification of 62.5KVA Silent, Diesel Generator with ATS/AMF facility Project Site: Provincial Infrastructure Development Authority, Rapti- 8, Bijnuri Dang Supply, Installation, testing and commissining of 62.5 KVA /3phase/415v, 5011z fully Automatic Silent DG set including all accessories as per the detailed Specification : S.No. Criteriya Buyer's Requirement Bidder Offer The prime power rating silent Genetator shall comply with the specified International Standards, comprise of Manufacturer ... @Brand a Diesel Engine of specified capacity-directly coupled to an specified capacity of Alternator, mounted over a 1 [ypc/Model common base frame with Anti-vibro-mounts The DO Unit shall be a complete pre-integrated & pre-insembled nut, internationally reputed make from original company and locally assembled units are not acceptable → Oen Set - Engine The Diesel Generator Units shall consist of the following composition: → Alternator Diesel Engine Country of Origin 1 Genetal **⊠**Alternator DFuel tank DEshaust System EIAMF Control Panel **B**Battery ☑Outdoor weather Protective & Sound Attenuating Enclosure EAutomatic Transfer switch MAIl other Accessories for automation operation Engine: BS 5514, ISO 3046 EAlternator: 1S 4722, BS 5000, IEC60034 Conformance Effigine & Gen. Set: ISO8528 Standards ☑ISO 9001:2008 Quality Assurance EIISO 14001:2004 Environmental Management DG Set shall be supplying continuous electrical power (at variable load) in the event of a utility power Ratings & 3 failure. The rating shall be atleast 62,5KVA/3 Phase/415V AC, 50Hz.0.8pf, within ±1.0% Voltage Regulation Performance and random Frequency variation with any steady load from no load to full load shall not exceed ±0.5% The Diesel engine shall be of 4 cylinder, water cooled, cold start, direct fuel injection, compression ignition and preferebly turbo charged type-developing min. 82 BHP or more @ 1500 rpm & over load capacity of 110% for one hour in any specified 12 hrs of continuous operation. The Diesel Engine shall be fitted with a Engine Mechanical/Electric governer class A1 or later. The cooling system shall be fitted a vertical fan cooled sectional radiator, rated for the tropical site conditions shall be mounted at the end of the combined under base and driven from the diesel engine. The Alternator shall be self-excited and self regulated brushless 62.5KVA prime@125°C, 1500 RPM, 3 Phase, 415/230Volts/50Hz, 0.8 pf (leg) 4 wire system. The Stator winding shall be star connected & shall be brought out together with the neutral point to terminals. The insulation of the winding shall be class H and IP-23. The 5 Alternator Alternator shall be capable of maintaining its continuous maximum rated output within +5% of rated voltage & at rated power factor with 10% Engine overload at any PF between utility and rated PF for a maximum period of one hour in any 12 hrs.period. The ATS shall comply with IEC 60947 or equivalent, having 3 attempt type & capable of sensing single & three phase failure of main supply or any variation in main supply voltage. The main supply and generator Automatic supply contactors or solenoid/motor operated chang over switch shall be of fool proof design with mechanical Transfer Switch & electrical interlock. A 4 pole circuit breaker and auto transfer switch should be provided rated for full load of the current +10% overload A built-in fuel tank design shall be capable of preventing accidental spilling of fuel & hand pump feeding on Fuel Tank emergencies and minimum capacity of not less than 8-10 hours contineously run at the rated capacity The Controll unit shall be environmentally sealed; solid state and microprocessor based and shall have minimum following features: Master Engine controll switch for OFF/AUTO/MANUAL/TEST DEmergency Shutdown feature ☑Emergency Shutdown reature
☑Engine Monitoring (Lube oil pressure, Engine Temp., RPM, Run Hrs., Fuel Level etc. Generator Set KVA, KW, KVAr, KWH, Power Factor, Canopy Temperature ctc. POTENT REET ☑Alternator Monitoring (Phase voltage, currents, frequency & reverse power etc.) Battery Monitoring ØFuel Level Indicator Genetator Digital Alarm and Status message display Monitoring & 8 Modebus Communication, Remote Monitoring etc. Diagnostic The Gen.Set. Shall be automatically shut down under following condition: Features ELow fuel level @Low lube oil pressure Over Current ☑Over/Under Voltage BOver/Under Speed BEarth Fault Trip DLow/High Battery voltage ☑ High Engine Temperature



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The Oen Set Shall be supplied with a completely self-contained starting system consisting of an engine driven

☑Routine Maintenance Indicator

dynamo, a lead acid battery and battery charger etc.

Starting System

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10	Acoustic Enclosure	▶ The Generator set shall be provided with a sound attenuated housing/enclosure to reduce the wound level of the generator set while operating at full rated load to below 95dHA at 1 mtr. from the Gen set ▶ The enclosure shall include hinged doors for access to both sides of the Engine and Alternator & controll equipment. A panel viewing window and key locking door latches shall be provided. ▶ The enclosure shall be provided with an exhaust silencer, which is mounted outside of the enclosure, and allows the Generator set package to meet specified sound level requirements. Silencer & exhaust shall include a run cop and tain sheld.	
11	Installation &	The Bulder must arrange the equipment & spares to be installed as mentioned below and commissioned by qualified/certified personnel, if any prerequistes for installation to be communicated to the purchaser in advance and in detail. Delower cables, Multi-strain copper wires, MCCHs, cable shoes and other related accessories. Describing set, complete (Alternator and Body) or as per manufacturer guideline. Diastallation & commissioning all complete work at site.	
12	Others	 ○Warranty. Comprehensive warreing for 2 Years after acceptance. ○Service faculty. Suppliers must ensure planned preventive maintenance(PPM) and corrective/breakdown maintenance whenever required. ○User Training Supplier must provide user training by qualified/certified trainer including proper bondshing of equipment and maintenance. ○Literature: Installation Guidelines, Foundation Drawings etc. ○Delivery Terms & condition 	
13	Documentation	©User Operating Manual in English ØService (Technical/Maintenance) Manual in English	

Note: Bidder must mention/full filled all the offered items Specification & duly signed, otherwise their tender will not be accepted.

Electrical Engineer,

(Energy Division)

Ministry of Energy, Water Resources & Irrigation

जित्रात तथा विकास राजी उपत्यकारिक

पूर्वाधार विकास रिमी उपत्यका (रेडक् ई. **र्श्विराज पोखेल** प्रमुख कार्यकारी अधिकृत