# बेलबारी नगरपालिका
# BELBARI MUNICIPALITY
# नगर कार्यपालिकाको कार्यालय
# OFFICE OF THE MUNICIPAL EXECUTIVE

बेलबारी, मोरङ
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प.स. : (Letter No): २०८३।८४ (2083/84)
च.नं. :(Dispatch No:)

मिति:२०८३/०८/०२

**बजार दररेट उपलब्ध गराईदिने सम्बन्धी सूचना**

बेलबारी नगरपालिकाका लागि आर्थिक बर्ष २०८३/०८४ मा आबश्यक पर्ने संलग्न स्पेसिफिकेसन बमोजिमका निम्न मालसामानहरू खरिद गर्नुपर्ने भएको हुदाँ के कति दररेटमा सामान उपलब्ध गराऊन सकिन्छ ? इच्छुक व्यबसायीहरुले आफ्नो लेटरहेड हस्तक्षर र छाप सहित मू.अ.कर बाहेक प्रति इकाइ दररेट यो सूचना प्रकाशन भएको मितिले ७ (सात) दिन भित्रमा उपलब्ध गराईदिनुहुन अनुरोध छ |

**देहाय**

| क्र.स. | सामग्रीहरुको नाम | स्पेसिफिकेसन | परिमाण | इकाइ | प्रति इकाइ मूल्य (रु) | | मू.अ.कर लाग्ने /नलाग्ने |
|---|---|---|---|---|---|---|---|
| | | | | | अंकमा | अक्षरमा | |
| १. | 100 KVA /80 KW Deisel engine driven, 3 phase generator set | यसै सुचनामा संलग्न रहेका थान २ | १ | थान | | | |

राम शंकर राठ
अधिकृत स्तर (सातौं)

Date:2083/06/12

# Technical Specification of 100 KVA Generator

| S.NO | ITEMS | DEPARTMENTAL REQUIREMENT | OFFERRED SPECIFICATION |
|---|---|---|---|
| 1 | 100 KVA Generator | • **Capacity:** 100 kVA / 80 kW<br>• **Type:** Diesel engine driven, 3-phase generator set<br>• **Rated Voltage:** 400/415 V<br>• **Phase:** 3 Phase, 4 Wire<br>• **Frequency:** 50 Hz<br>• **Power Factor:** 0.8 lagging<br>• **Engine:** 4-stroke, water-cooled diesel engine<br>• **Engine Speed:** 1500 RPM<br>• **Starting System:** 12/24 V DC electric starting system<br>• **Alternator:** Brushless, synchronous alternator with AVR<br>• **Excitation:** Brushless excitation with automatic voltage regulation<br>• **Insulation Class:** Class H<br>• **Protection:** IP23 or equivalent<br>• **Voltage Regulation:** Automatic, typically within ±1%<br>• **Cooling:** Radiator cooled with engine-driven cooling fan<br>• **Fuel Tank:** minimum 120 liters<br>• **Governor:** Electronic/mechanical governor suitable for stable frequency control<br>• **Control Panel:** Digital AMF/Gen-set controller with monitoring and protection<br>• **Monitoring:** Voltage, current, frequency, running hours, oil pressure, coolant temperature and battery voltage<br>• **Protection:** Overload, short circuit, over/under voltage, over/under frequency, low oil pressure and high coolant temperature<br>• **Battery:** Heavy-duty 12/24 V starting battery with battery charger<br>• **Silencer:** Industrial-grade exhaust silencer with flexible exhaust connection<br>• **Mounting:** Heavy-duty base frame with anti-vibration mounting pads<br>• **Canopy:** Weatherproof, acoustic/sound-attenuated canopy suitable for outdoor installation<br>• **Noise Level:** Preferably ≤75 dB(A) at 7 m, subject to manufacturer standard<br>• **Standards:** ISO 8528 / applicable IEC standards<br>• **Accessories:** Exhaust system, battery set, battery charger, control panel, fuel lines and standard DG accessories<br>• **Testing:** Factory testing and commissioning test at site to be provided by bidder.<br>• **Warranty:** Minimum 1 year or 1,000 operating hours, whichever occurs first. | |

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|---|---|---|---|
| | | **Power Cable**<br>• **Cable Length:** 25 meters<br>• **Cable Type:** 1.1 kV XLPE insulated, PVC/FRLS sheathed armored power cable<br>• **Conductor:** Aluminum/Copper, stranded<br>• **Configuration:** 3 Phase + Neutral<br>• **Recommended Size: 4C × 120 mm² Aluminum XLPE armored cable**<br>• **Earth Cable:** Separate appropriately sized copper/aluminum earth conductor<br>• **Cable Glands:** Double-compression heavy-duty glands<br>• **Cable Lugs:** Heavy-duty compression-type cable lugs<br>• **Cable Routing:** Properly supported on cable tray, ladder or suitable conduit<br>• **Termination:** Complete termination at generator and changeover panel, including glands, lugs and ferrules<br>• **Voltage Drop:** To be maintained within permissible limits<br><br>**Changeover / AMF Panel**<br>• **Panel Type:** Floor-mounted, fabricated MS electrical panel<br>• **System:** 400/415 V, 3 Phase, 4 Wire, 50 Hz<br>• **Changeover Rating: 250 A, 4-Pole Automatic/Manual Changeover**<br>• **Source-1:** Main utility/transformer supply<br>• **Source-2:** 100 kVA generator supply<br>• **Incomer Protection:** Suitable MCCB/ACB for both utility and generator sources<br>• **Busbar:** High-conductivity copper busbar, minimum 250 A rating<br>• **Testing:** Insulation resistance, continuity, phase sequence, changeover and functional testing | |
| All the Machine should be delivery to **NAXUALBARI, OHP KHANEPANI BELBARI MUNICIPALITY WARD-01, MORANG, NEPAL.** | | | |

Note: **The major item is indicated by bold letters/alphabets/figures in the technical specifications. Non-compliance of these major items will result in non-responsiveness of the bid offered.**

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