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स्थायी लेखा नं ६०५८०१८३३

पेलिकन कन्स्ट्रक्शन कम्पनी प्रा.लि. Pelicon Construction Company Pvt. Ltd.

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भक्तपुर-१०

मिति

Date: 18th June 2026

To

The Chairperson

Siddhi Memorial Foundation

Bhaktapur Nepal

Subject: Recommendation of 270 kVA Diesel Generator

Dear Sir,

With reference to the above-mentioned subject, I would like to inform you that a detailed assessment of the hospital's electrical load requirements and current power demand has been carried out. Based on the analysis, it has been determined that a **270 kVA Diesel Generator (DG) set** is adequate to provide **full backup power supply** for the hospital's essential and operational loads during utility power outages.

The proposed generator capacity has been selected considering the existing connected load, anticipated demand, operational reliability, and future flexibility to ensure uninterrupted power supply for critical hospital services and equipment. The generator is capable of meeting the current backup power requirements while maintaining stable and efficient operation under emergency conditions.

For your review and further necessary action, the **technical specifications of the proposed 270 kVA Diesel Generator** are enclosed herewith as an attachment to this letter.

Kindly review the enclosed specifications and provide your approval and necessary instructions for proceeding with the procurement and installation process.

Best Regards

Er. Nahakul Gwyamaru

NEC No: 2525 Electrical 'A'

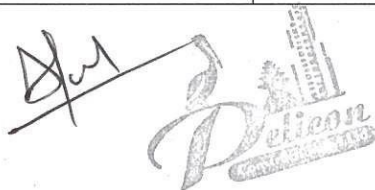



Technical Specification for 270 kVA DG

S.N.	Technical Specification	Required Value
1	Generator Capacity	270 KVA (Continuous power capable of synchronizing with another DG)
2	Output Voltage	400V, 3 Phase
3	Frequency	50 Hz at 1500 RPM
4	Speed Governor	Electronic Governor Class G3 as per ISO: 8528-5
5	Power factor	0.8 (lag)
6	Mounting type	Open skid with anti-vibration pad and Sound proof Canopy
7	Engine	
7.1	Fuel	Diesel
7.2	No of cylinder	6 cylinders
7.3	Fuel tank Capacity	Shall be sufficient enough for 8 hours of continuous operation at 75% load
7.4	Fuel pre-heating	Shall be provided to prevent paraffin separation in winter
7.5	Cooling type	Liquid/Water cooled
7.6	Engine Exhaust	Shall be provided
7.7	Engine Safety Shutdown Controls and Alarm	Both audio and visual alarms shall be provided.

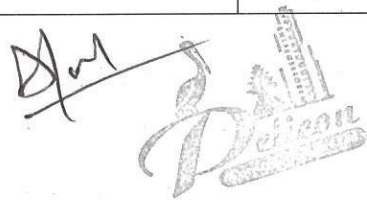

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7.8	Sound level	Less than 66 dBA@ 7 m with canopy at 75% load.
8	Generator	
8.1	Engine Speed Governing System shall be electronic.	Generator frequency shall be maintained within 2 Hz of normal frequency between no-load and full load condition.
8.2	Over speed Shutdown Device	Shall be provided.
8.3	Voltage Regulator	Generator safety shutdown controls and Alarm control shall immediately shut off delivery of fuel to engine cylinders during under and over voltage (400 +/- 10% V)
8.4	Over and under frequency Cut-off	Beyond 50 +/- 2 Hz.
8.5	Alternator	Leroy-somer, Stamford or equivalent
9	Control Cubicle	
9.1	Digital Ammeters	Digital ammeter shall be provided with selector switch to monitor load current
9.2	Digital Voltmeter	Digital voltmeter with selector switch shall be provided to monitor both city supply and generator output voltage.
9.3	D. C. Voltmeter	In-built feature of genset controller
9.4	Frequency Meter	In-built feature of genset controller
9.5	Cumulative Running hour meter	In-built feature of genset controller



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9.6	Indication lamps	Shall be provided to indicate presence of voltages of city supply and generator supply and different fault conditions.
9.7	Auto Mains failure	Generator shall start automatically when city supply fails and shutdown when city supply is restored.
9.8	The generator shall automatically start in either of the conditions	a. When one or more phases of mains supply fails or phase unbalance is greater than 10%.
		b. When line voltage and frequency of mains supply is beyond specified range (adjustable).
		c. When phases are out of sequence.
		d. When the city supply is beyond the range specified the city supply contactor shall trip immediately, genset get started automatically, genset supply contactor closed.
9.9	Start and stop delay	Generator start and stop delay shall be adjustable from 5 secs. to 5 minutes.
9.10	Operation switches	There shall be switches for system test, reset, manual operation, auto operation and emergency stop.
9.11	Alarms	Both audio and visual alarms shall be provided whenever there is any fault in the engine, generator and control cubicle.
9.12	Starter battery	Shall be provided
9.13	Battery Charger	Shall be provided
	Others	



10	Warranty	24 months from date of commissioning with maintenance at the installed place all the cost shall be bear by the supplier with spare parts.
11	Spare Parts	Required spare parts list with offered price valid for 5 years after completion of 2 years warranty period.
12	ISO 9001 of Manufacture	Mandatory
13	ISO 14001 of Manufacture	Mandatory
14	ISO 50001 of Manufacture	Mandatory
15	ISO 45001 of Manufacture	Mandatory
14	Latest CPCB emission certificate as per GSR.448 (E)	Mandatory
15	Authorization Letter from Manufacture	Mandatory
16	OEM certificate of alternator	Mandatory
17	Should be manufactured with in one year	Mandatory

