

Technical Specification

Generator set (50 kVA)

1Unit

S. N	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Single/Three Phase Electric generating alternator with rated power factor 0.8 PF (lagging), 415V Three phase frequency of 50 Hz, Suitable for an altitude up-to 3000 meter and in ambient temperature between -10to 50 deg. Centigrade. The dry wet of generator should not be more than 1250 Kgs.	Make: Model: Country of Origin:
2	Engine	Four Cylinder, Four stroke Liquid/air cooled diesel Engine, Minimum Power: output not less than 60BHP. Rate speed: 1500rpm	Make: Model:
3	Alternator	Brushless alternation with automatic voltage regulation type, Class H insulation, Type: Brushless Voltage regulation : ±1.5% Efficiency at 75% load: Min. 90% Out-put: Not less than 50 k VA Prime Standard: ISO9001 BS 5000 and equivalent. Emission level: ISO9001 BS 5000 and equivalent	
3	Starting System	Electric starter/ Automatic Transfer switch.	
4	Structure	Engine and alternator shall be coupled and mounted on sturdy, fabricated, welded construction base frame featuring ultra silent type. All exposed parts of the engine and alternator accessories shall be fully guarded. Guards shall be all around the coupling, generator air intakes, and any rotating parts.	
5	Fuel Tank	Fuel tank capacity of at least 100 Liters.	
6	Noise level	Should be less than 75dBA @ 1Mtr	

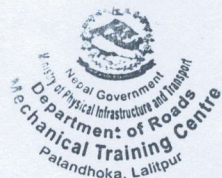
7	Earthing	Each earthing with 2×2 copper plates with copper strips(4 Nos.for DG set&AMF panel)	
8	Instructions	All signs and instructions in the generator shall be in English.	
9	Manuals	One copy of the Operator's /Maintenance manual in English shall be supplied with generator.	
10	Tools	A set of tools as required for general maintenance shall be supplied.	
11	Color	Standard color.	
12	Proven performance	The generator offered shall be a current model under standard production by the manufacturer for at least one year.	
13	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance oras per manufacturer's standard whichever is greater.	
14	Initial Service	The supplier shall provide all the necessary filters and spare parts required for the first two services, after the generator has been commissioned and accepted.	
15	Delivery,Intallation and Commissioning	The DG(1units)shall be delivered, installation and comissioned to: GokarneshworMunicipality,Office of the Municipal Executive,Jorpati,Kathmandu,Nepal	

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.
- All the required action of local fright, unloading crane service, civil works(if required),earthing, cabling , exhaust piping ,diesel and labor charge associated, inspection and commissioning charge should be on account of the supplier.

Bidders Signature.....

Date.....



[Handwritten Signature]

Mechanical Engineer

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