

**Project Name :- Bakalya Rural Municipality Office**  
**Hatisude ,Makawanpur**  
**Specifications and estimated cost for 125 KVA - 6 Cylinder Diesel Generator**

Date:- 2082-12-16

| Generator Supply ,Installation , Testing and commissioning of Generator as per the instruction and Specification of expert. |  |
|---|--|
| Genset (Stand by-Prime )  | 125-6 Cyl  |
| <b>Engine</b>   |  |
| Cooling System:   | Water cooled   |
| Speed:  | 1500 RPM   |
| Governing:  | Mechanical/Electronic  |
| Displacement [CC]   | 7200   |
| Bore & Stroke [mm]  | 105x137  |
| <b>Power Output</b>   |  |
| Power Rating ( KW)  | ~100 KW(aprox)   |
| Power Output*(HP)   | 156  |
| <b>Fuel System</b>  |  |
| Fuel  | High speed diesel  |
| Fuel consumption  | ~21-28 L/hr(75-100% load)  |
| Fuel tank capacity in ltrs  | 250  |
| <b>Alternator</b>   |  |
| Type:   | Brushless, single bearing  |
| Voltage:  | 415v, 3-phase  |
| Current [A] (1 phase/ 3 phase)  | 173.7  |
| Frequency:  | 50 Hz  |
| power factor:   | 0.8 lag  |
| Voltage regulation:   | ±1%  |
| <b>Other Features</b>   |  |
| Starting  | 12 V DC Electrical   |
| Control Panel   | AMF/Manual   |
| noise level:  | ~75 dBA @ 1m (with canopy)   |
| Aspiration  | TCA  |
| Radiator collant capacity   | 15-25 ltrs   |
| Lube Oil  | SAE 15W40 C14+   |
| Total lube oil sum  | 15-22 ltr  |
| Governing Class   | G2   |
| Alternator protection   | IP 23  |
| Insulation class  | H  |
| Control Panel   | manual control panel with microprocessor based controller (Standard)/AMF(Optional) |
| Dimension   | 3500x1230x1425   |
| weight  | 1855   |
| Warranty(Required)  | 1 years  |
| <i>DG Cost in NPR</i>   | 2000000.00   |
| <i>Earthing &amp; Electrification</i>   | 200000.00  |
| <i>TOTAL COST(NPR)</i>  | 2200000.00   |
| <i>VAT 13%</i>  | 286000   |
| <i>Estimated Cost in NRS (Twenty Four Lakh Eighty Six Thousands Only )</i>  | 2486000.00   |

Prepared by

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NEC REG NO: 045 "BIE" 22 Dec.2010

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Signature :-

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2082/12/16



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