

**Admin. Office : A/p : Porle, Tal. Panhala,
Dist. Kolhapur- 416229. Ph : 8380082272
Email : samarth_engineers@ymail.com**



Ref: 656/KDAP/SE/2022

Date: 28/01/2022

To, Kokan Development Agro Product Company Limited,
432, Navadi, Tal – Sangameshwer,
Dist – Ratnagiri - 415611

Kind Attention – Mr. Digvijay Patil
MOB: 9960044744

Subject: Offer for Supply of 160 KVA with Manual Panel 3PH Mahindra Powerol Silent DG Set.

Dear Sir,

We thank you very much for the interest shown in our product.

Mahindra & Mahindra Limited offers you a complete range of Products & Services for **Power Generation from 5KVA to 500KVA DG Sets**. We also glad to inform you that Mahindra & Mahindra Ltd. has won the JQM & DEMINGAWARD which is the world renowned Japanese award for Quality. We are the only Indian Industrial Engine manufacturer in world to win this prize.

All Mahindra Engines meet the stringent CPCB norms for Noise and Exhaust Emission. More than 2, 00,000 Gensets powered with Mahindra Engines are already being used.

These engines are manufactured as per IS-10000, BS-5514 at state of art the Plants in Kandivali- Mumbai which are ISO 9001- 14000 certified & follow the best manufacturing practices like Total Quality Management (TQM). This ensures a world class quality product for our valued customers.

Thanked & Regarding
For. Samarth Engineers

Mr. Ajay Nikam

MOB: 8380082272, 9765396566



The company has blue chip customer base like (To name a few) –Raymond's, Fullerton India, Max New York Life Insurance, Aviva Life Insurance, Relegate, CitiFinancial, Share khan, Ranbaxy

Laboratories, Bajaj Hindustan, Tech Mahindra, PACL, Mahindra Finance, Reliance Vision Express, Sahara

Group, Max Health, ITC, Thomas Cook, IDBI Bank, ICICI Bank, J&K Bank, Corporation Bank, State Bank of India,

Syndicate Bank, Oriental Bank of Commerce, Punjab National bank, Hindustan Petroleum, Bharat Petroleum, Indian Oil Corporation, Indus Towers, Bharti Ingrate, Vodafone, GTL, Idea Cellular, Quipped telecom, Tower vision, WTTIL, Huawei, Acme, Datacom, Aircel, Reliance Telecom, BSNL etc.

It will be our pleasure to serve you. Thanking you and assuring you of our prompt attention at all times.

Salient Features of MAHINDRA POWEROL Silent DG Set

- Compact, Sleek, Manual/ Automatic.
- Sound Proof, Weather Proof enclosure.
- Low vibration, low fuel consumption.
- **Class A1 Governing in its range, which gives better accuracy in decreasing the speed drop in transient and lowering the recovery time of the speed.**
- **Low cost of service & spares**
- **Low operation cost**
- Confirms to statutory Govt. noise level norms.
- The Enclosure is of modular construction with the provision to assemble and dismantle easily.
- The sheet metal components are **9 transpire-treated and is Polyester based powder coated (inside as well as outside) for long life.**
- **All Nuts-bolts, hardware is of Stainless Steel for longer life.**
- Battery is provided in a tray inside the enclosure.
- Doors are gasketed with high quality EPDM gaskets to avoid leakage of sound.
- **A special Residential silencer is provided to control exhaust noise with aluminium cladding.**
- Specially designed sound attenuators are provided to control sound at air entry & exit points inside the enclosure.
- To make the system vibration free, engine and alternator are mounted on specially designed antivibration pads mounted on base frame.
- The enclosure is designed and layout of the equipment is such that there is easy access to all serviceable parts.
- Adequate ventilation is provided to meet air requirement for combustion & heat removal.
- The silent DG set comes with following safety features:
 - ◆ High water temperature.
 - ◆ Low lube oil pressure.
 - ◆ Emergency stop push button outside the enclosure.

- Specially designed Standard Control Panel is mounted inside enclosure itself.
- **In-built draw in type fuel tank of suitable capacity.**
- With UV resistant powder coating, can withstand extreme environments
- The walls of the enclosure are insulated with the retardant foam so as to comply with the noise level of 75 dB(A) at distance of 1 metre. in open free field environment as per ISO 8528 part 10 specified by ministry of Environment & Forest.
- Fluid drains for lube oil and fuel
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TECHNICAL SPECIFICATIONS – SILENT DG SET

A DIESEL ENGINE:

M&M make engine Model mPower61995G, 6 cylinder, 2 inline, 4 stroke cycle, WATER, developing 199 BHP at 1500.00 RPM under NTP conditions of BS:5514. The engine shall be provided with electrical starting arrangement & shall give the electrical output of 160 KVA/ 128 KW at 0.8 power factor, 415Volts at the alternator terminal

The Engine is fitted with the following standard accessories

01. A1 class Governor
02. Battery Charging Alternator
03. Engine safety Sensors (LLOP & HWT)
04. Air Cleaner
05. Lube Oil Filter
06. Fuel Filler

B. ALTERNATOR:

CG approved make 160 KVA, 3 phase, 415V, 0.8 PF type, screen protected, revolving field, self-excited, self-regulated through an AVR.

The alternator has the following features:

- "H" class insulation
- $\pm 1.0\%$ voltage regulation (max.) in static conditions
- **IP: 23** protections with insulation class H
- Permissible overload of 10% for one hour in 12 hours of operation.

C. CONTROL PANEL:

The Control Panel is manufactured with 16/18-gauge CRCA sheet and is powder coated for a weatherproof and long-lasting finish. The Control Panel consists of Microprocessor based DES 9 electronic controller, MCCB of suitable rating, Key Switch, Push Button (starter), LED: Battery Charging alternator fail indication, Current Transformer, Instrument fuses.

The DES 9 microprocessor electronic controller displays the following parameters:

- Voltage, Frequency, Current, Rpm, Cumulative Run Hours, Oil Pressure, Coolant Temperature & Charging Current (DC Amp Meter).

The DES 9 microprocessor electronic controller provides the following safety to the engine:

- Under & Over Voltage, Under & over Frequency, Under & Over Speed, Overload, Low Lube Oil Pressure, High Coolant Temperature & Emergency Off.

D. ESSENTIAL ACCESSORIES:

- **Fuel tank:** Sub Base Fuel tank (DRAW IN TYPE) of MS sheet of adequate capacity.
- **Base Rail:** Base Rail of adequate size is provided.
- **Batteries:** For electrical control circuit 1 no., 12 Volts, Mahindra **approved** make battery for electrical starting of DG set.

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SAMARTH
ENGINEERS

PRICE SCHEDULE:

S.N.	Description	Qty.	Price (Rs)	Amount (Rs)
A.	Supply of 160 KVA with Silent DG set. With Manual comprising of M&M make Engine Model mPower61995G, 199BHP@NTP, 1500.00 RPM, coupled to 160 KVA Mahindra approved make 3 phase 415V, 50 Hz alternator mounted on a common Base frame along with other accessories i.e., Fuel tank, MCP, Battery with leads and acoustic enclosure. etc.	1 No	10,16,950/-	10,16,950/-
B.	GST @18%	-		1,83,051/-
	TOTAL	-		12,00,000/-
	TRANSPORT CHARGES		Extra At Actual	Extra At Actual

TERMS & CONDITIONS:

Taxes: Prices are **Inclusive** of **GST @18%**.

TERMS OF PAYMENT: 30% payment as an advance along with order & balance 70% payment against Performa invoice prior to dispatch from our OEM factory.

FREIGHT: Prices are **Exclusive** of freight charges (Ex – Works.) at actuals.

TRANSIT INSURANCE: **Extra** at actuals

APPROVALS: Approvals from concern authorities shall be to customers account.

DELIVERY: Supply within **1-2 Weeks** from the date of receipt of your order along with advance, subject to force majeure conditions and unforeseen delay, which is beyond our / our manufacturers' control.