

**OFFICE OF THE CHIEF DISTRICT MEDICAL & PUBLIC HEALTH
OFFICER, SUNDARGARH**

ଜିଲ୍ଲା ମୁଖ୍ୟ ଚିକିତ୍ସା ଓ ଜନସ୍ୱାସ୍ଥ୍ୟ ଅଧିକାରୀ କା କାର୍ଯ୍ୟାଳୟ, ସୁନ୍ଦରଗଡ଼

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CORRIGENDUM

(ବିଜ୍ଞାପନ ସଂଶୋଧନ)

With reference to the Advertisement Letter No 3111/ DPMU, Dated _02 / 06 /2018 of the CDM&PHO, Sundargarh, the section III (schedule of requirement) & section IV (Technical Specification) of tender no. 3115 for supply of DG Set has been modified. The details of the modified document can be downloaded from the Sundargarh district website i.e, www.sundargarh.nic.in. All other sections/parameters remain unchanged.

Sd/-Dr. Udayabhanu Das
Chief District Medical & Public Health Officer,
-cum-DMD-Sundargarh

CORRIGENDUM

(ବିଜ୍ଞାପନ ସଂଶୋଧନ)

Advertisement Letter No 3111/ DPMU, Dated _02 / 06 /2018 of the CDM&PHO,
Sundargarh

Tender No. 3115/DPMU, dtd 2.6.2018

- Please refer serial no. 2&3 under Section III, where 40 KVA & 125 KVA DG set has been added to the requirement list. Accordingly the specification of the 40 KVA & 125 KVA DG set has been included in the section –IV (Technical Specification).
- All other sections/parameters remain unchanged.

SECTION-III

SCHEDULE OF REQUIREMENTS

SL NO.	Name of the Item	Specification	Place of Supply	Delivery Time
1	DGSET (250 KVA)			
2	DGSET (40 KVA)	As per theTender Specification in annexure:IV	District Head Quarter Hospital, Sundargarh	Supply Within 60 days from issue of Purchase Order
3	DGSET (125 KVA)			

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SECTION -IV

TECHNICAL SPECIFICATIONS OF DG SET. TECHNICAL SPECIFICATION FOR DIESEL GENERATOR SET

TECHNICAL SPECIFICATIONS – SILENT DG SET(250 KVA)

250 KVA, AMF Control Panel, 3 Phase, 415 V

A. DIESEL ENGINE:

Electronic (CRDI) Engine Model 250KVA mPower 63105G, 6 cylinder, inline, 4 stroke cycle, WATER COOLING, developing 310 BHP at 1500 RPM under NTP conditions. The engine shall be provided with electrical starting arrangement & shall give the electrical output of 250KVA/200KW at 0.8 power factor, 415Volts at the alternator terminal.

The turbocharged Diesel engine shall conform to IS:13018/1990(reaffirmed 2005)AND IS: 10,000 series (withlatest Amendments.). Specific fuel consumption (SFC) shall be as per IS specification.

The Engine is fitted with the following standard accessories

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

B. ALTERNATOR:

250KVA/200KW alternator, 3 phase, 415V, 0.8 PF, type, screen protected, revolving field, self-excited, self-regulated through an AVR. The alternator shall be of brushless type only with VG-2 Grade of voltage regulation. The alternator has the following features:

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

The Control Panel is manufactured with 16/18 gauge CRCA sheet and is powder coated for a weather-proof and long lasting finish..

The control panel shall be totally enclosed, dust and vermin proof, floor mounted type with degree of protection IP-53 as per IS/IEC:60947(part-1)/2007

The AMF control panel shall consists of following instruments of which any of the items can be supplied in a combined relay/meter also.

- (a) Microprocessor based AMF relay.
- (b) AC voltmeter(s) of class 1.5 accuracy ,0-500 volts with selector switch. Separate voltmeter shall be provided for Mains and Alternator.
- (c) AC Ammeter(s) of class 1.5 accuracy and of suitable range, with selector

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switch.

(d) Mode selector switch for setting the panel on any one position such as off or auto or manual or test.

(e) Engine ON-OFF switch (push button type).

(f) HRC fuses of suitable ratings.

(g) Rectangular aluminium bus bars(1 No. for each phase, neutral and earthing terminal) of adequate rating duly colour coded with heat shrinkable PVC sleeves.

(h) Two nos. power contactor (one for Mains and one for generator) up to 360 KVA & EDO breaker for DG sets above 360 KVA, ACB will be complete with O/L, U/V release, short circuit protection.

(i) Under voltage relay for mains.

(j) Three attempt engine start /engine cranking relay.

(k) On delay timer for load change over.

(l) On delay timer for engine shut off.

(m) Pilot lamps three nos. in case of three phase DG sets.

(n) Battery charger complete with voltage regulator float or booster selector switch, ON-OFF switch, Voltmeter and Ammeter for charging the battery from Mains. This will be in addition to the battery charging alternator fitted on the engine.

(o) Instruments and control fuses 06(Six) nos. power fuses of suitable rating.

(p) Five nos. indicating lamps to indicate Mains Low Voltage, Load on Mains, DG Set running, Load on set and Battery charger ON.

(q) Audio Visual alarm for Low Lubricating Oil Pressure, High water temperature, Start Failure and DG O/L.

(r) Over current relay protection.

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 2 no., 12 Volts, 150AH battery for electrical starting of DG set.

SMPS Battery Charger

Supplier shall also provide following documents during supply of DG set at the time of Registration and inspection.

(1) Valid Calibration certificates of all the testing meters from any Govt. /NABL accredited Lab.

(2) Complete & satisfactory Type test certificate (TTC) for turbocharged engines, alternators complete with enclosure to be used by them for EACH rating of DGsets clearly identifying make, model and ratings of the DG sets tested to be submitted to the concerned DQA at the time of Registration and pre despatch inspection. The TTC of three phase alternators shall cover unbalanced load test as per cl.24 of IS: 13364(part-2)/1992(reaff 2008) as applicable.

Warranty: 2 year onsite Comprehensive Warranty

TECHNICAL SPECIFICATIONS – SILENT DG SET (40 KVA)

TECHNICAL SPECIFICATIONS – SILENT DG SET (40 KVA)

Rated Capacity: 40 KVA, AMF Control Panel, NO of Phases: 3 Phases, 415 V

DIESEL ENGINE:40 KVA

Engine Model 4575TCIGM-C2, 4 cylinder, inline, 4 stroke cycle, WATER, developing 57.00 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 40KVA/32.000KW 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

ALTERNATOR:

40KVA/32.000KW alternator, 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

± 1.0% voltage regulation (max.) in static conditions

IP: 23 protection with insulation class H

Permissible overload of 10% for one hour in 12 hours of operation.

CONTROL PANEL:

The Control Panel is manufactured with 16/18 gauge CRCA sheet and is powder coated for a weather-proof 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

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, 88AH make battery for electrical starting of DG set.

Warranty: 2 year onsite comprehensive warranty

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TECHNICAL SPECIFICATIONS – SILENT DG SET **(125 KVA)**

TECHNICAL SPECIFICATIONS – SILENT DG SET (125 KVA)

Rated Capacity: 125 KVA, AMF Control Panel, NO of Phases: 3 Phases, 415 V

DIESEL ENGINE:

Engine Model, mPower 61565 G 6 cylinder, inline, 4 stroke cycle, WATER COOLED, developing 156.00 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 125KVA/100.000KW 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

ALTERNATOR:

125KVA/100.000KW alternator, 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

± 1.0% voltage regulation (max.) in static conditions

IP: 23 protection with insulation class H

Permissible overload of 10% for one hour in 12 hours of operation.

CONTROL PANEL:

The Control Panel is manufactured with 16/18 gauge CRCA sheet and is powder coated for a weather-proof 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.

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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, 88AH make battery for electrical starting of DG set.

Warranty: 2 year onsite comprehensive warranty

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