



पनवेल महानगरपालिका

ता. पनवेल जि. रायगड



कार्यालय- आयुक्त मुख्यालय, २ रा मजला, देवाळे तलावाच्या
समोर, गोखले हॉलच्या शेजारी, पनवेल- ४१०२०६
दुरध्वनी क्र- ०२२-२७४५८०४०/४१/४२
Email Id: panvelcorporation@gmail.com

जा.क्र. पमपा /विद्युत/३८२३/प्र.क्र.०२/३० /२०२५

दिनांक-०७/०९/२०२५

जाहिर निविदा दरपत्रक सुचना

मा. आयुक्त, पनवेल महानगरपालिका खालील नमूद कामाचे अंदाजपत्रक बनविण्याकरीता खालील बाबींचे दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	कालावधी
१.	पनवेल महानगरपालिकेस विविध क्षमतेच्या जनरेटर संचाचा पुरवठा करून कार्यान्वित करणे.	दिनांक-०८/०९/२०२५ ते दिनांक-३५/०९/२०२५ (७ दिवस)

Specifications

Sr. No	ITEM	ITEM Descriptions	QUANTITY	UNIT
1.	Generator	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 10 kVA output continuous rating suitable for above DG sets complying to (CPCB-IV) + Norms DIESEL ENGINE The standard Design consists of Direct injection, turbo-charged, four stroke liquid cooled technology confirming to BS:5514 and IS 10000 suitable for prime duty generating set application as follows: The engine shall be complete with the following standard accessories: ➤ Dry type air cleaner ➤ Distribution-4 strokes ➤ No. of cylinder- Multi Cylinder ➤ Type of construction- In-line ➤ Exhaust silencer ➤ Expansion bellows ➤ Lube oil cooler ➤ Lube oil filter ➤ Fuel filter ➤ Radiator, radiator fan and mounting ➤ Fuel pump with governor ➤ Fly wheel with starter ring ➤ Battery charging alternator ➤ 12 Volt electric starter motor ➤ Set of documents comprising spare parts book and operation & maintenance manual ➤ Earth fault protection for a generator typically includes specifications like: operating current setting (pickup current), time characteristic	1	Nos.

(instantaneous, definite time, or inverse definite minimum time), neutral earthing impedance, injection frequency (for high impedance systems), sensitivity level, and fault location detection capability

ALTERNATOR

Alternator suitable rated at 0.8PF, 415V, 3 Phase, 4-wire, 50 Cycles/Sec., 1500 RPM, Frequency- 50 Hz self-excited and self-regulated, Power Alternator Type- Single Bearing, Brushless, Insulation Class H, Voltage regulation +/- 1% of rated voltage, from no load to full load, with temperature rise limit- Class "H" The alternator generally conforms to BS: 2613/IS: 4722.

ENGINE FEATURES

Four valve technology & Central injection system

- Engine is compliant to future emission norms.
- Lower lube oil sump capacity as compared to others, thus lower maintenance cost.
- Light weight & strong crankshaft material, gives better strength and increases the power train peak cylinder capability by 20 %.
- Engine can operate on 100 % bio-diesel giving 100 % power & lower emission
- Heavy duty Turbo charger fully matched for varying load conditions.
- Rugged design to meet toughest operating conditions.
- Compact & aesthetically designed CPCB IV+ approved canopy.
- Excellent transient response for sudden loading.
- State-of-art engine & genset monitoring system.
- Safety control for low coolant level in radiator, as standard feature.

SPECIFICATION OF CANOPY

Construction of Acoustic Enclosure

Acoustic enclosure shall be powder coated and fabricated out of 1.4 / 1.5 mm thickness MS sheet. The silent canopy shall be of nut bolt type construction. Powder coating is done after surface treatment process of sheet metal. Canopy panel and doors shall have inside lining of Fire-Retardant Foam as acoustic material. Hinged doors shall be provided to canopy, one door shall have glass window for control panel.

Surface Treatment-Painting

The enclosure surface is pretreated with 11 tank process and thereafter they are coated with high quality powder and are baked in uniform temperature in conveyor oven

Base Frame

The Base frame is rugged in construction and designed for mounting engine and alternator close coupled, with cross members mounted on AVM. They are fabricated with MS HR sheet steel of suitable thickness. The Base frame is pretreated and coated with primer-based powder / Epoxy paint.

Fuel Tank

Fuel tank is fabricated out of 2/ 3mm MS HR sheet integrated with base frame (Detachable) and is fitted with inlet and outlet connections.

Noise suppressor (Silencer)

Residential type Silencer is provided to suppress exhaust noise from the engine to meet CPCB IV+ norms.

Emergency Push Stop Button:

The canopy has the provision of emergency push button, external to the canopy.

Performance Parameters

- DG with canopy is manufactured as per (ISO 3744 OR 8528 PT 10) to meet CPCB IV+ norms of average 75 DBA under green field conditions @ 1 meter distance from all four sides.
- The average stabilized hot air temperature rise within the canopy is maintained within 10° C over and above ambient temperature.

2.	<p>Supplying, erecting, testing and commissioning of diesel generating set with alternator of 40 kVA output continuous rating suitable for above DG sets complying to (CPCB-IV) + Norms</p> <p>DIESEL ENGINE</p> <p>The standard Design consists of Direct injection, turbo-charged, four stroke liquid cooled technology confirming to BS:5514 and IS 10000 suitable for prime duty generating set application as follows:</p> <p>The engine shall be complete with the following standard accessories:</p> <ul style="list-style-type: none"> ➤ Dry type air cleaner ➤ Distribution-4 strokes ➤ No. of cylinder- Multi Cylinder ➤ Type of construction- In-line ➤ Exhaust silencer ➤ Expansion bellows ➤ Lube oil cooler ➤ Lube oil filter ➤ Fuel filter ➤ Radiator, radiator fan and mounting ➤ Fuel pump with governor ➤ Fly wheel with starter ring ➤ Battery charging alternator ➤ 12 Volt electric starter motor ➤ Set of documents comprising spare parts book and operation & maintenance manual ➤ Earth fault protection for a generator typically includes specifications like: operating current setting (pickup current), time characteristic (instantaneous, definite time, or inverse definite minimum time), neutral earthing impedance, injection frequency (for high impedance systems), sensitivity level, and fault location detection capability <p>ALTERNATOR</p> <p>Alternator suitable rated at 0.8PF, 415V, 3 Phase,4-wire, 50 Cycles/Sec., 1500 RPM, Frequency- 50 Hz self-excited and self-regulated, Power Alternator Type- Single Bearing, Brushless, Insulation Class H, Voltage regulation +/- 1% of rated voltage, from no load to full load, with temperature rise limit- Class "H" The alternator generally conforms to BS: 2613/IS: 4722.</p> <p>ENGINE FEATURES</p> <p>Four valve technology & Central injection system</p> <ul style="list-style-type: none"> ➤ Engine is compliant to future emission norms. ➤ Lower lube oil sump capacity as compared to others, thus lower maintenance cost. ➤ Light weight & strong crankshaft material, gives better strength and increases the power train peak cylinder capability by 20 %. ➤ Engine can operate on 100 % bio-diesel giving 100 % power & lower emission ➤ Heavy duty Turbo charger fully matched for varying load conditions. ➤ Rugged design to meet toughest operating conditions. ➤ Compact & aesthetically designed CPCB IV+ approved canopy. ➤ Excellent transient response for sudden loading. ➤ State-of-art engine & genset monitoring system. ➤ Safety control for low coolant level in radiator, as standard feature. <p>SPECIFICATION OF CANOPY</p> <p>Construction of Acoustic Enclosure</p> <p>Acoustic enclosure shall be powder coated and fabricated out of 1.4 / 1.5 mm thickness MS sheet. The silent canopy shall be of nut bolt type construction. Powder coating is done after surface treatment process of</p>	2	Nos.
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		<p>sheet metal. Canopy panel and doors shall have inside lining of Fire-Retardant Foam as acoustic material. Hinged doors shall be provided to canopy, one door shall have glass window for control panel.</p> <p>Surface Treatment-Painting The enclosure surface is pretreated with 11 tank process and thereafter they are coated with high quality powder and are baked in uniform temperature in conveyor oven</p> <p>Base Frame The Base frame is rugged in construction and designed for mounting engine and alternator close coupled, with cross members mounted on AVM. They are fabricated with MS HR sheet steel of suitable thickness. The Base frame is pretreated and coated with primer-based powder / Epoxy paint.</p> <p>Fuel Tank Fuel tank is fabricated out of 2/ 3mm MS HR sheet integrated with base frame (Detachable) and is fitted with inlet and outlet connections.</p> <p>Noise suppressor (Silencer) Residential type Silencer is provided to suppress exhaust noise from the engine to meet CPCB IV+ norms.</p> <p>Emergency Push Stop Button: The canopy has the provision of emergency push button, external to the canopy.</p> <p>Performance Parameters</p> <ul style="list-style-type: none"> ➤ DG with canopy is manufactured as per (ISO 3744 OR 8528 PT 10) to meet CPCB IV+ norms of average 75 DBA under green field conditions @ 1 meter distance from all four sides. ➤ The average stabilized hot air temperature rise with in the canopy is maintained within 10° C over and above ambient temperature. 		
3.		<p>Supplying, erecting, testing and commissioning of diesel generating set with alternator of 100 kVA output continuous rating suitable for above DG sets complying to (CPCB-IV) + Norms</p> <p>DIESEL ENGINE The standard Design consists of Direct injection, turbo-charged, four stroke liquid cooled technology conforming to BS:5514 and IS 10000 suitable for prime duty generating set application as follows: The engine shall be complete with the following standard accessories:</p> <ul style="list-style-type: none"> ➤ Dry type air cleaner ➤ Distribution-4 strokes ➤ No. of cylinder- Multi Cylinder ➤ Type of construction- In-line ➤ Exhaust silencer ➤ Expansion bellows ➤ Lube oil cooler ➤ Lube oil filter ➤ Fuel filter ➤ Radiator, radiator fan and mounting ➤ Fuel pump with governor ➤ Fly wheel with starter ring ➤ Battery charging alternator ➤ 12 Volt electric starter motor ➤ Set of documents comprising spare parts book and operation & maintenance manual ➤ Earth fault protection for a generator typically includes specifications like: operating current setting (pickup current), time characteristic (instantaneous, definite time, or inverse definite minimum time), neutral earthing impedance, injection frequency (for high impedance systems), sensitivity level, and fault location detection capability 	1	Nos.

ALTERNATOR

Alternator suitable rated at 0.8PF, 415V, 3 Phase,4-wire, 50 Cycles/Sec., 1500 RPM, Frequency- 50 Hz self-excited and self-regulated, Power Alternator Type- Single Bearing, Brushless, Insulation Class H, Voltage regulation +/- 1% of rated voltage, from no load to full load, with temperature rise limit- Class "H" The alternator generally conforms to BS: 2613/IS: 4722.

ENGINE FEATURES

Four valve technology & Central injection system

- Engine is compliant to future emission norms.
- Lower lube oil sump capacity as compared to others, thus lower maintenance cost.
- Light weight & strong crankshaft material, gives better strength and increases the power train peak cylinder capability by 20 %.
- Engine can operate on 100 % bio-diesel giving 100 % power & lower emission
- Heavy duty Turbo charger fully matched for varying load conditions.
- Rugged design to meet toughest operating conditions.
- Compact & aesthetically designed CPCB IV+ approved canopy.
- Excellent transient response for sudden loading.
- State-of-art engine & genset monitoring system.
- Safety control for low coolant level in radiator, as standard feature.

SPECIFICATION OF CANOPY**Construction of Acoustic Enclosure**

Acoustic enclosure shall be powder coated and fabricated out of 1.4 / 1.5 mm thickness MS sheet. The silent canopy shall be of nut bolt type construction. Powder coating is done after surface treatment process of sheet metal. Canopy panel and doors shall have inside lining of Fire-Retardant Foam as acoustic material. Hinged doors shall be provided to canopy, one door shall have glass window for control panel.

Surface Treatment-Painting

The enclosure surface is pretreated with 11 tank process and thereafter they are coated with high quality powder and are baked in uniform temperature in conveyor oven

Base Frame

The Base frame is rugged in construction and designed for mounting engine and alternator close coupled, with cross members mounted on AVM. They are fabricated with MS HR sheet steel of suitable thickness. The Base frame is pretreated and coated with primer-based powder / Epoxy paint.

Fuel Tank

Fuel tank is fabricated out of 2/ 3mm MS HR sheet integrated with base frame (Detachable) and is fitted with inlet and outlet connections.

Noise suppressor (Silencer)

Residential type Silencer is provided to suppress exhaust noise from the engine to meet CPCB IV+ norms.

Emergency Push Stop Button:

The canopy has the provision of emergency push button, external to the canopy.

Performance Parameters

- DG with canopy is manufactured as per (ISO 3744 OR 8528 PT 10) to meet CPCB IV+ norms of average 75 DBA under green field conditions @ 1 meter distance from all four sides.
- The average stabilized hot air temperature rise with in the canopy is maintained within 10° C over and above ambient temperature.

4.	<p>Supplying, erecting, testing and commissioning of diesel generating set with alternator of 180 kVA output continuous rating suitable for above DG sets complying to (CPCB-IV) + Norms</p> <p>DIESEL ENGINE The standard Design consists of Direct injection, turbo-charged, four stroke liquid cooled technology confirming to BS:5514 and IS 10000 suitable for prime duty generating set application as follows: The engine shall be complete with the following standard accessories:</p> <ul style="list-style-type: none"> ➤ Dry type air cleaner ➤ Distribution-4 strokes ➤ No. of cylinder- Multi Cylinder ➤ Type of construction- In-line ➤ Exhaust silencer ➤ Expansion bellows ➤ Lube oil cooler ➤ Lube oil filter ➤ Fuel filter ➤ Radiator, radiator fan and mounting ➤ Fuel pump with governor ➤ Fly wheel with starter ring ➤ Battery charging alternator ➤ 12 Volt electric starter motor ➤ Set of documents comprising spare parts book and operation & maintenance manual ➤ Earth fault protection for a generator typically includes specifications like: operating current setting (pickup current), time characteristic (instantaneous, definite time, or inverse definite minimum time), neutral earthing impedance, injection frequency (for high impedance systems), sensitivity level, and fault location detection capability <p>ALTERNATOR Alternator suitable rated at 0.8PF, 415V, 3 Phase,4-wire, 50 Cycles/Sec., 1500 RPM, Frequency- 50 Hz self-excited and self-regulated, Power Alternator Type- Single Bearing, Brushless, Insulation Class H, Voltage regulation +/- 1% of rated voltage, from no load to full load, with temperature rise limit- Class "H" The alternator generally conforms to BS: 2613/IS: 4722.</p> <p>ENGINE FEATURES Four valve technology & Central injection system</p> <ul style="list-style-type: none"> ➤ Engine is compliant to future emission norms. ➤ Lower lube oil sump capacity as compared to others, thus lower maintenance cost. ➤ Light weight & strong crankshaft material, gives better strength and increases the power train peak cylinder capability by 20 %. ➤ Engine can operate on 100 % bio-diesel giving 100 % power & lower emission ➤ Heavy duty Turbo charger fully matched for varying load conditions. ➤ Rugged design to meet toughest operating conditions. ➤ Compact & aesthetically designed CPCB IV+ approved canopy. ➤ Excellent transient response for sudden loading. ➤ State-of-art engine & genset monitoring system. ➤ Safety control for low coolant level in radiator, as standard feature. <p>SPECIFICATION OF CANOPY Construction of Acoustic Enclosure Acoustic enclosure shall be powder coated and fabricated out of 1.4 / 1.5 mm thickness MS sheet. The silent canopy shall be of nut bolt type construction. Powder coating is done after surface treatment process of sheet metal. Canopy panel and doors shall have inside lining of Fire-</p>	1	Nos.
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		<p>Retardant Foam as acoustic material. Hinged doors shall be provided to canopy, one door shall have glass window for control panel.</p> <p>Surface Treatment-Painting The enclosure surface is pretreated with 11 tank process and thereafter they are coated with high quality powder and are baked in uniform temperature in conveyor oven</p> <p>Base Frame The Base frame is rugged in construction and designed for mounting engine and alternator close coupled, with cross members mounted on AVM. They are fabricated with MS HR sheet steel of suitable thickness. The Base frame is pretreated and coated with primer-based powder / Epoxy paint.</p> <p>Fuel Tank Fuel tank is fabricated out of 2/ 3mm MS HR sheet integrated with base frame (Detachable) and is fitted with inlet and outlet connections.</p> <p>Noise suppressor (Silencer) Residential type Silencer is provided to suppress exhaust noise from the engine to meet CPCB-IV+ norms.</p> <p>Emergency Push Stop Button: The canopy has the provision of emergency push button, external to the canopy.</p> <p>Performance Parameters</p> <ul style="list-style-type: none"> ➤ DG with canopy is manufactured as per (ISO 3744 OR 8528 PT 10) to meet CPCB IV+ norms of average 75 DBA under green field conditions @ 1 meter distance from all four sides. ➤ The average stabilized hot air temperature rise with in the canopy is maintained within 10° C over and above ambient temperature. 		
5.		<p>Supplying, erecting, testing and commissioning of diesel generating set with alternator of 750 kVA output continuous rating suitable for above DG sets complying to (CPCB-IV) + Norms</p> <p>DIESEL ENGINE</p> <p>The standard Design consists of Direct injection, turbo-charged, four stroke liquid cooled technology conforming to BS:5514 and IS 10000 suitable for prime duty generating set application as follows:</p> <p>The engine shall be complete with the following standard accessories:</p> <ul style="list-style-type: none"> ➤ Dry type air-cleaner ➤ Distribution-4 strokes ➤ No. of cylinder- Multi Cylinder ➤ Type of construction- In-line ➤ Exhaust silencer ➤ Expansion bellows ➤ Lube oil cooler ➤ Lube oil filter ➤ Fuel filter ➤ Radiator, radiator fan and mounting ➤ Fuel pump with governor ➤ Fly wheel with starter ring ➤ Battery charging alternator ➤ 12 Volt electric starter motor ➤ Set of documents comprising spare parts book and operation & maintenance manual ➤ Earth fault protection for a generator typically includes specifications like: operating current setting (pickup current), time characteristic (instantaneous, definite time, or inverse definite minimum time), neutral earthing impedance, injection frequency (for high impedance systems), sensitivity level, and fault location detection capability 	1	Nos.

ALTERNATOR

Alternator suitable rated at 0.8PF, 415V, 3 Phase,4-wire, 50 Cycles/Sec., 1500 RPM, Frequency- 50 Hz self-excited and self-regulated, Power Alternator Type- Single Bearing, Brushless; Insulation Class H, Voltage regulation +/- 1% of rated voltage, from no load to full load, with temperature rise limit- Class "H" The alternator generally conforms to BS: 2613/IS: 4722.

ENGINE FEATURES

Four valve technology & Central injection system

- Engine is compliant to future emission norms.
- Lower lube oil sump capacity as compared to others, thus lower maintenance cost.
- Light weight & strong crankshaft material, gives better strength and increases the power train peak cylinder capability by 20 %.
- Engine can operate on 100 % bio-diesel giving 100 % power & lower emission
- Heavy duty Turbo charger fully matched for varying load conditions.
- Rugged design to meet toughest operating conditions.
- Compact & aesthetically designed CPCB IV+ approved canopy.
- Excellent transient response for sudden loading.
- State-of-art engine & genset monitoring system.
- Safety control for low coolant level in radiator, as standard feature.

SPECIFICATION OF CANOPY

Construction of Acoustic Enclosure

Acoustic enclosure shall be powder coated and fabricated out of 1.4 / 1.5 mm thickness MS sheet. The silent canopy shall be of nut bolt type construction. Powder coating is done after surface treatment process of sheet metal. Canopy panel and doors shall have inside lining of Fire-Retardant Foam as acoustic material. Hinged doors shall be provided to canopy, one door shall have glass window for control panel.

Surface Treatment-Painting

The enclosure surface is pretreated with 11 tank process and thereafter they are coated with high quality powder and are baked in uniform temperature in conveyor oven

Base Frame

The Base frame is rugged in construction and designed for mounting engine and alternator close coupled, with cross members mounted on AVM. They are fabricated with MS HR sheet steel of suitable thickness. The Base frame is pretreated and coated with primer-based powder / Epoxy paint.

Fuel Tank

Fuel tank is fabricated out of 2/ 3mm MS HR sheet integrated with base frame (Detachable) and is fitted with inlet and outlet connections.

Noise suppressor (Silencer)

Residential type Silencer is provided to suppress exhaust noise from the engine to meet CPCB IV+ norms.

Emergency Push Stop Button:

The canopy has the provision of emergency push button, external to the canopy.

Performance Parameters

- DG with canopy is manufactured as per (ISO 3744 OR 8528 PT 10) to meet CPCB IV+ norms of average 75 DBA under green field conditions @ 1 meter distance from all four sides.
- The average stabilized hot air temperature rise with in the canopy is maintained within 10° C over and above ambient temperature.

11.	SYNCHRONIZATION PANEL	Modification of existing 320KVA dg set for synchronization compatibility with 750kva dg set with modification in alternator and DG set controller	1	Nos.
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अटी व शर्ती :-

- सीलबंद दरपत्रके दिनांक-०८/०९/२०२५ ते दि.३१/०९/२०२५ रोजीपर्यंत दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या विद्युत विभागात किंवा pmcelectrical१२३@gmail.com या ई-मेलवर स्वीकारण्यात येतील.
- सदरचे दरपत्रक हे अंदाजपत्रक बनविण्यासाठी असून सदर कामांवर Manufacturer/Dealer/Contractor चा दावा (Claim) असणार नाही.
- Manufacturer/Dealer/Contractor ने दिलेले दरपत्रक स्विकारणाचे सर्व अधिकार पनवेल महानगरपालिकेकडे असतील याची नोंद घ्यावी.

Alaksh

शहर अभियंता
पनवेल महानगरपालिका

प्रत माहितीस्तव-

माहिती फलककरीता

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