



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/१९२६/प्र.क्र.-/१०५४/२०२६

दिनांक-२९/०९/२०२६

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 महानगरपालिका क्षेत्रातील भुखंड क्र.१७, सेक्टर-३६, खारघर व प्रभाग क्र.०९ मधील प्लॉट क्र. G-१ सेक्टर-०७ नवीन पनवेल (पूर्व) येथील डायलेसिस सेंटरमध्ये उद्वाहक (Lift) व जनरेटर संच बसविण्याबाबत.	दिनांक- ३०/०९/२०२६ ते दिनांक-०६/१०/२०२६ (७ दिवस)

Specifications

Sr. No	ITEM	Item Descriptions	QUNATITY	UNIT						
1.	Generator-400 KVA	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 400 kVA output continuous rating suitable for above DG sets complying to (CPCB-IV) + Norms DIESEL ENGINE <table><tr><th>KVA / kW</th><th>BHP @ 1500 RPM</th><th>NO. OF CYLINDERS</th></tr><tr><td>400 / 320</td><td>490</td><td>8</td></tr></table> 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	KVA / kW	BHP @ 1500 RPM	NO. OF CYLINDERS	400 / 320	490	8	1	Nos.
KVA / kW	BHP @ 1500 RPM	NO. OF CYLINDERS								
400 / 320	490	8								

- Battery charging alternator
- 24 Volt electric starter motor
- 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
- **ENGINE MONITORING SYSTEM -**
 - a state-of-the-art engine & genset monitoring and safety system, having following features:
 - Control panel consisting of built in On / Off / Start key.
 - Battery charging voltmeter
 - Electronic Hour meter
 - Indication & Monitoring of Oil Pressure & safety trip incase of Low Oil Pressure.
 - Indication & Monitoring of Coolant Temperature & safety trip incase of High Coolant Temperature.
 - In-built engine shut down system in case of Engine Overspeed.
 - Indication & Monitoring of Fuel Level and alarm.
 - Indication & Monitoring of Canopy Temperature and alarm / safety trip in case of High Canopy Temperature.
- Vibration Damper
- Set of documents comprising spare parts book and operation & maintenance manual

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

BATTERY

2 Nos. 12 Volts Factory Pre-charged Lead Acid Battery with leads

STANDARD CONTROL PANEL

Sheet steel made duly painted with stoving enamel paint consists of followings:

- 1 No. EMS
- 1 No. KWh meter
- 3 Nos. Current Transformer
- 2 Nos. Indicating Lamps
- 1 Set Control Fuses

FEATURES OF ENGINE MONITORING SYSTEM -

- State-of-the-art Microprocessor based fully configurable technology
- High performance graphical LCD and prominent display
- LED indications for genset status and alarms
- Event logging history (stores last 100 events) for ease of maintenance/service & preventive maintenance annunciation.
- Canopy temperature monitoring
- Individual touch buttons for Manual, Test & Auto modes.
- Battery condition monitoring

- Statistical cumulative counters like No. of starts, Engine run Hrs & kWh
- In-built AMF module

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.	AUTOMATIC MAINS FAILURE (AMF) PANEL for 400KVA	The Control Panel will be free standing, floor mounting, cubical type, front operated dust and vermin proof, fabricated out of 14/16 SWG MS CRCA Sheet duly POWER COATED after necessary pre-treatment process & consisting of following: Power Circuit <table><tr><td>Mains</td><td>DG Set</td></tr><tr><td>1 No. 4P contactor suitably rated</td><td>1 No. 4P contactor suitably rated</td></tr><tr><td>1 No. 3P MCCB suitably rated</td><td>1 No. 3P MCCB suitably rated</td></tr></table> Control & Metering Circuit 1 No.EMS Microprocessor based AMF logic controller. 1 No. kWh meter 1 No. Line Voltage Monitor L&T make. 1 Set of Control Fuses 1 No. Static Battery charger circuit with on / off switch. Battery charger "ON" indication Reverse Polarity indication 1 No. DC battery charging ammeter	Mains	DG Set	1 No. 4P contactor suitably rated	1 No. 4P contactor suitably rated	1 No. 3P MCCB suitably rated	1 No. 3P MCCB suitably rated	1	Nos.
Mains	DG Set									
1 No. 4P contactor suitably rated	1 No. 4P contactor suitably rated									
1 No. 3P MCCB suitably rated	1 No. 3P MCCB suitably rated									
3	Generator- 500 KVA	Supplying, erecting, testing and commissioning of diesel generating set with alternator of 500 kVA output continuous rating suitable for above DG sets complying to (CPCB-IV) + Norms DIESEL ENGINE <table><tr><td>KVA / kW</td><td>BHP @ 1500 RPM</td><td>NO. OF CYLINDERS</td></tr><tr><td>500 / 400</td><td>608</td><td>8</td></tr></table> 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 ➤ 24 Volt electric starter motor ➤ 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).	KVA / kW	BHP @ 1500 RPM	NO. OF CYLINDERS	500 / 400	608	8	1	Nos
KVA / kW	BHP @ 1500 RPM	NO. OF CYLINDERS								
500 / 400	608	8								

	neutral earthing impedance, injection frequency (for high impedance systems), sensitivity level, and fault location detection capability ➤ ENGINE MONITORING SYSTEM - - a state-of-the-art engine & genset monitoring and safety system, having following features: • Control panel consisting of built in On / Off / Start key. • Battery charging voltmeter • Electronic Hour meter • Indication & Monitoring of Oil Pressure & safety trip incase of Low Oil Pressure. • Indication & Monitoring of Coolant Temperature & safety trip incase of High Coolant Temperature. • In-built engine shut down system in case of Engine Overspeed. • Indication & Monitoring of Fuel Level and alarm. • Indication & Monitoring of Canopy Temperature and alarm / safety trip in case of High Canopy Temperature. ➤ Vibration Damper ➤ Set of documents comprising spare parts book and operation & maintenance manual 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 BATTERY 2 Nos. 12 Volts Factory Pre-charged Lead Acid Battery with leads STANDARD CONTROL PANEL Sheet steel made duly painted with stoving enamel paint consists of followings: 1 No. EMS 1 No. kWh meter 3 Nos. Current Transformer 2 Nos. Indicating Lamps 1 Set Control Fuses FEATURES OF ENGINE MONITORING SYSTEM - • State-of-the-art Microprocessor based fully configurable technology • High performance graphical LCD and prominent display • LED indications for genset status and alarms • Event logging history (stores last 100 events) for ease of maintenance/service & preventive maintenance annunciation. • Canopy temperature monitoring • Individual touch buttons for Manual, Test & Auto modes. • Battery condition monitoring • Statistical cumulative counters like No. of starts, Engine run Hrs & kWh • In-built AMF module 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 AVN. 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.

4	AUTOMATIC MAINS FAILURE (AMF) PANEL for 500 KVA	The Control Panel will be free standing, floor mounting, cubical type, front operated dust and vermin proof, fabricated out of 14/16 SWG MS CRCA Sheet duly POWER COATED after necessary pre-treatment process & consisting of following: Power Circuit <table><tr><td>Mains</td><td>DG Set</td></tr><tr><td>1 No. 4P contactor suitably rated</td><td>1 No. 4P contactor suitably rated</td></tr><tr><td>1 No. 3P MCCB suitably rated</td><td>1 No. 3P MCCB suitably rated</td></tr></table> Control & Metering Circuit 1 No. EMS Microprocessor based AMF logic controller. 1 No. kWh meter 1 No. Line Voltage Monitor L&T make. 1 Set of Control Fuses 1 No. Static Battery charger circuit with on / off switch. Battery charger "ON" indication Reverse Polarity indication 1 No. DC battery charging ammeter	Mains	DG Set	1 No. 4P contactor suitably rated	1 No. 4P contactor suitably rated	1 No. 3P MCCB suitably rated	1 No. 3P MCCB suitably rated	1	Nos
Mains	DG Set									
1 No. 4P contactor suitably rated	1 No. 4P contactor suitably rated									
1 No. 3P MCCB suitably rated	1 No. 3P MCCB suitably rated									
5	STRETCHER LIFT	Supply, Installation, Testing, and Commissioning of Passenger cum stretcher lift (Bed Lift) with 'Gearless' machine (minimum 16 persons- 1360 kg capacity). General & Performance Specifications • Number of Units: 1 unit • Type: Machine Room Less (MRL) • Product Line: 5000 • Rated Load: 1360 kg • Passenger Capacity: 20 Passengers • Floor Designation: G, 1, 2 • Control Option: Duplex • Drive Type: VVVF drive • Speed: 1 m/s • Stoppages: 3 Dimensional Specifications • Minimum Required Shaft Size: 2400mm*3000mm • Car Dimensions (W × D × H): 1200mm*2100 mm *2400 mm • Door Dimensions (W × H): 900 mm*2100 mm • Overhead Dimension: 4500 mm • Pit Depth: 1500 mm • Access Sides: 1	1	Nos						

Design & Finishes

- **Door Type:** C2 - Centre opening
- **Car Walls Finish:** Stainless Steel Hairline
- **Car Door Finish:** Stainless Steel Hairline
- **Car Front Finish:** Stainless Steel Hairline
- **Ceiling Finish:** Stainless Steel Hairline
- **Landing Doors Finish:** Stainless Steel Hairline
- **Ceiling Lighting:** Round Spot Lights
- **Flooring:** Artificial Black Granite
- **LOP & COP Type:** Mechanical Push Button type with Braille
- **Handrail:** Straight Stainless Steel on Rear Wall
- **Mirror:** N/A

Operational & Safety Features

- Automatic Rescue Device (ARD)
- Passenger release alternate landing
- Intercom TAI 1
- Provision for CCTV Interface
- Remote Monitoring Device
- Hoistway Alarm Horn
- Automatic Releveling
- Automatic Return to Main Floor
- Door Pre-opening
- Attendant Service (KA/KS)
- Car Call Cancellation
- Automatic Door Closing Final Time
- Building Monitoring Interface
- Position Indicator in Car 1
- Arrival Gong on Landing
- In-service Indicator
- Travel Direction Indicator in Car
- Maintenance-work Indicator
- Arrival & Further Travel Indicator
- Fire Emergency Switch

SITC of Electric Traction Passenger Lift with 1386712 - Minor civil work such as alteration work if any necessary for erection of landing door frames and it's accessories e.g. sill, header, hole pass etc complete with plaster finish, civil work for erection buffers, erection of lift machinery, adequate size core cuts if required & scaffolding for erecting guide rails, providing and fixing steel girders/RCC work having adequate strength for mounting and hoisting lift machine etc. complete as per specification no. LFT.

General: - Job includes entire procedure of obtaining all necessary erection permissions & "License to Work the Lift" from Electrical Inspector (Lifts) with submission to the Engineer in Charge.

- **The above rate includes Fully Comprehensive AMC for one year from the date of commissioning.**
- Rated capacity:- 20 Passenger/1360 Kg
- Floors :- G+2 floor (3 Stops/3 Landings)
- Travel:- 7 to 11 mtrs.
- Location of Lift Machine: - MR/MRL
- Rated speed:- 1.0mps
- Door type: - COPO/TOPO Doors with frame made from SS 304 grade solid(non-cladded) sheet of 1.5mm thick in hairline finish for car and all landing doors with SS door architraves/frames The lift doors shall have minimum 1 hour fire rating (with submission of necessary valid test certificate issued by NABL accredited or Independent test laboratory).
- Lift car enclosure made from SS 304 grade solid (non-cladded) sheet of 1.5mm, thick with hairline finish with frame made from MS girders, bracing of adequate size with minimum safety factor of 5, with Toe Guard Apron, with necessary false ceiling with adequate LED lights, blower/fan for ventilation & SS chequered plate flooring, handrails, mirror, emergency light etc. The lift car interior design shall be done as per the directions of engineer in charge.
- COP with SS face plate having metallic push buttons with Braille code & luminous indicator around button with FPI, scrolling UP/DN LED indicator & with / without attendant key switch, OWD with audio-visual alarm, VAS in Marathi, Hindi & English with intercom system with telephone instrument in Lift car, LMR & FCC/ground floor.
- LOP with SS face plate having recess/surface push button box for all landings with scrolling UP/DN LED indicator having metallic push buttons with Braille code & luminous indicator around button with CPI, Lift car arrival & next travel direction audio-visual indication at all landings.
- Lift controller based on microprocessor/ PLC with VVVF Drive having closed loop control system, with IBMS compatible having necessary port. The controller shall have necessary protections such as overcurrent, overvoltage, over speed, overheat for all devices including lift motor and travel direction protection, protection for phase loss at input or output etc. various operation modes such as maintenance, change direction by attendant, full load bypass, VIP call operation, self-levelling operation, call cancel facility, auto return to home landing, fireman evacuation operation, earthquake operation, door open/close operation from COP etc. The system can record information for minimum 30 latest faults, with real-time clock management and handheld keypad

	with LCD screen for view and setting of parameters, The control panel duly wired with proper size & strength, copper wire for power & control circuit, with provision for addition of floor/control card & allied accessories control panel having enclosure of 1.5mm CRCA sheet with powder coating with IP54 Protection class. • ARD complete with necessary SMF VRLA batteries. • Fireman controller having fireman switch at fire Landing. • CCTV surveillance system comprises of 2 nos minimum 2.0MP FHD IP based vandal proof Dome camera in lift car & in LMR/inside lift shaft top aimed on Lift machinery & controller with NVR kept in LMR/FCC with HDR data backup for min. 90 days with min. 18" FHD TV monitor, to be kept in FCC/LMR as directed by Engineer In Charge. • Lift Machine of Gearless PMSM of suitable kW with duty cycle of minimum 120 starts/hr (with submission of necessary valid test certificate issued by NABL accredited or independent test laboratory), with Traction pulley, OSG, electromagnetic brakes, entire assembly mounted on adequate size girders duly fixed on LMR floor/ shaft walls complete with main/diverter traction sheaves, suspension wire ropes/belts of adequate size & strength. • Other mechanical parts such as "T" section adequate size guide rails for car & counter weight with brackets fasteners, counter weight frame with necessary blocks, buffers with necessary support arrangement, MS pit ladder etc. erected with necessary steel work.		
--	--	--	--

अटी व शर्ती :-

१. सीलबंद दरपत्रके दिनांक- ३०/०९/२०२६ ते दि.०६/१०/२०२६ रोजीपर्यंत दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या विद्युत विभागात किंवा pmcelectrical123@gmail.com या ई-मेलवर स्वीकारण्यात येतील.
२. सदरचे दरपत्रक हे अंदाजपत्रक बनविण्यासाठी असून सदर कामांवर Manufacturer/Dealer/Contractor चा दावा (Claim) असणार नाही.
३. Manufacturer/Dealer/Contractor ने दिलेले दरपत्रक स्विकारणाचे सर्व अधिकार पनवेल महानगरपालिकेकडे असतील याची नोंद घ्यावी.


 विद्युत विभाग प्रमुख
 पनवेल महानगरपालिका

प्रत माहितीस्तव :-

माहिती फलककरीता