OFFICE OF THE BAHOUR COMMUNE PANCHAYAT
NOTICE INVITING TENDER

NAME OF WORK: PURCHASE OF GENSETS TO MULTIPURPOSE HALL AT PANNITHITTU, PUDUKUPPAM IN BAHOUR COMMUNE.

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ITEM NO. 1
CODE NO. 30.280.1A
Supplying of 3 phase, 415 volts, 50 cycles, 0.80 power factor for electric starting diesel generator comprising the following units:- (Kirloskar/Leyland/Ruston/Gr eaves Cotton/Cummins make) air cooled and shall be of multi stroke, multi cylinders, cold starting, developing not less than 43 BHP under normal temperature and pressure. The engine shall conform to I.S 10002 with latest amendments. It shall be capable of taking 10% over load for one hour in every 12 hours of continuous operation including 6 Nos. of anti vibration pads. The engine shall be complete with the following accessories: Electrical starting provision, engine cooling fan, fuel
and lubricating oil filters, oil bath, air filter, lub oil pressure gauge, 90 litres capacity fuel tank mounted with engine, hour meter with exhaust, manifold, flexible pipe. 12/24 volts electric starting equipment complete with starter, alternator and one 12 volts with 19 plates battery make AMCO/STANDARD/EXIDE/DAGANITE(with Guarantee cards) of adequate capacity and low lubricating oil pressure/high temperature varying engine shut down devices. The acoustic enclosure shall have the following: Acoustic enclosure shall be powder coated and fabricated out of 16 SWG CRCA MS sheet. The silent canopy shall be of nut bolt type construction. Powder coating is done after seven tank surface preparation process of steel metal. Canopy panel and doors shall have inside lining of FIRE-RETARDANT foam/Rock wool as acoustic material. Four hinged doors shall be provided to canopy, one door shall have glass window for control panel. Base frame is fabricated either in ISMC channel or in sheet metal. The base frame in rugged in construction and designed for mounting engine and alternator, with cross members mounted on AVM. The base frame shall have provision
for mounting of acoustic enclosure
and it is having provision of
lifting hook for convenient lifting
of complete set. i.e along with
canopy, engine and alternator.
fuel tank shall be fabricated out
of 14 SWG CRCA MS sheet and is part
of base frame. It is duly painted
and fitted with inlet and outlet
connections of suitable capacity.
The acoustic enclosure shall be
type test approved as per CPCB
norms. The average sound level,
when pressure in green field
condition (ISO m3744 OR 8528 PT 10)
at 1-meter distance from all four
sides shall be less than 75-dBA
average or as per CPCB norms. The
average stabilized hot air
temperature rise with in the canopy
is maintained with in 10C over and
above ambient temperature.
Acoustic enclosure is suitable for
Outdoor/Indoor installation.
Lockable doors shall be provided.
Lockable fuel filling arrangement
to be provided external to the
canopy. Residential silencer is
housed in the canopy. The exhaust
gasses shall be taken out through
a suitable flexible pipe to prevent
any back pressure on the engine.
Base from sturdy, fabricated welded
construction, channel iron/sheet
metal base frame for mounting the
above engine and alternator.
Standard tools and spares: Double ended spanners complete set (small and big size sets) - 12 Nos. (TAPARIA/GEDORGE/EVERES T make) Screw driver (30 cm long) Taparia make Screw driver (45 cm long) Taparia make cutting plyer. Diesel filter with elements - 2 Nos. Oil filter with elements - 1 No. All the above accessories with complete set. Alternator - The alternator shall be of Crompton/Kirloskar/Stamford/ELGI make, self excited, self regulated, screen protected, drip proof alternator with static excitation system capable of developing 30 KVA at 0.8 power factor 415 volts, 3 phase, 50 cycles, generally conforming to IS 4722 under normal condition, the voltage regulation will be plus or minus 5% of rated voltage. It shall be with end shield/ball roller bearings complete. Control Panel/wall/Pedestal mounting (cubical type) fabricated sheet steel construction suitable for manual operation, rated for system output incorporating the following devices, instruments.; The panel is made of 1.6 mm sheet with one/two hinged front door, bolted back totally enclosed and
vermine proof. It shall be with all electrical connections and internal copper wiring with proper color codings for internal wiring. All control equipments and indicating instruments shall be mounted on the control panel. The control panel shall have the following equipments: 1 No. Amps/Volt/Frequency meter (96mm x 96mm) 3 Nos of suitable current transformers 2 Nos of suitable selector switches for voltmeter and ammeter main switch rotary type on/off pilot lamp (standard make) 1 No. input terminal board 1 No. output terminal board 1 No. Kilowatt hour meter (62.50 KVA and above) 1 No. MCCB of suitable capacity (L & T/CROMPTON make) - 30 KVA/24 KW Generator set (Air cooled).

(One number)

2.00 no.

ITEM NO.  2
CODE NO. 30.281
Fabrication and supply of two wheeler towing facility trailer of size 2.50m length and 1.25m width in 150mm channel of 9mm flange thick of 16.40 Kgs per metre weight. Five number of cross bars
at width wise direction in 100mm channel of 7.5mm flange thick with 9.20 Kgs. per metre weight framed with 85mm square axle with tow bar of 150mm channel to 1.50m length. The top of the frame will be welded by GI sheet of 10 gauge thick and two tyres in 9.00x20 size of make ceat or appolo or in equivalent with heavy duty disc. The rate will be inclusive of providing facility to mount 30KV generator, Zinc primer coating, two coat of paints and FOR at BCP office.  2.00 no.  

ITEM NO. 3  
CODE NO. 30.285.1A  
Charges for transporting, erection, testing and commissioning job of generator set excluding foundation, but including mechanical and other unskilled wages for installation of equipment, wiring from generator set to panel board and change over switches, handling charges, purchase of spares if any required for the installation and commissioning, the cost of fuel and other materials for a trial run of 6
hours. This rate also includes for testing and commissioning of generator set as specified, obtaining approval of Central Electricity Authority (CEA), payment for CEA inspection/Licence fees any other charges and fulfilling other requirements and conditions laid down by CEA-From 30 KVA to 50 KVA

1 job

2.00 (one job)