

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 47/Elect./2018****SCHEDULE OF QUANTITY****Name of Work: Providing and installation of 2x500 KVA DG set for proposed NSM data centre at IIT Kanpur.**

| Name of the Contractor | | | | | |
|------------------------|---|-------|------|---------------------------|--------|
| S. No | Description of Items | Qty | Unit | Rate in Figures in Rupees | Amount |
| 1 | Supplying, installation, testing, commissioning of 500 Kva, 3 phase, 1500rpm, radiator cooled Silent DG Set with coupled to 500 Kva 415V alternator mounted on common frame with following essential accessories and as per specifications and DG sets suitable for synchronizing and controlled through PLC synchronizing panel. as per specification E-01 | | | | |
| | Batteries and leads | | | | |
| | AVM Pads | | | | |
| | Residential Scilencer | | | | |
| | First fill of lube oil | | | | |
| | Acoustic enclosure | | | | |
| | Fuel tank of 990 Ltr. | 2.00 | Set | | |
| 2 | Supplying & fixing 50mm x 6mm thick GI earth strip in ground/surface or in recess welding for connection etc. as reqd. | 80.00 | Mtr | | |
| 3 | Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. | 4.00 | Nos. | | |
| 4 | Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. | 4.00 | Nos. | | |
| 5 | Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for soldering connections etc. as required. | 60.00 | Mtr | | |
| 6 | Excavation for foundation in soft soil including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 metres. | 60.00 | Cum | | |
| 7 | Providing and laying in position reinforced cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc including form work etc as required (excluding reinforcement). | 40.00 | Cum | | |

| S. No | Description of Items | Qty | Unit | Rate in Figures in Rupees | Amount |
|-------|--|--------|------|---------------------------|--------|
| 8 | Providing brick work (in width 225 mm or more) with F.P.S. bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand) at all levels. | 10.00 | Cum | | |
| 9 | Providing 15mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels. | 30.00 | sqm | | |
| 10 | Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required | | | | |
| a | 80 mm dia | 50.00 | Mtr | | |
| 11 | Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as reqd. | | | | |
| a | 250 x 300 x 100mm deep | 2.00 | Each | | |
| 12 | Steel reinforcement for R.C.C work including straighting,cutting,bending,placing in position and binding all complete upto plinth level | | | | |
| a | Thermo-mechanically treated bars of grade Fe-500D or more | 570.38 | Kg | | |
| | Total Rs. | | | | |