

CROSS WORLD POWER LIMITED
BOQ OF 1X100 KVA GENERATOR

CLIENT - Cox's Inn

ADDRESS- CHITTAGONG

DATE- 17.10.2017

GEN MODEL-

ENGINE MODEL-

ALTERNATOR MODEL-

ELECTRICAL INSTALLATIONS

| SL NO | JOB DESCRIPTION | TECHNICAL DETAILS/ BRAND | SCOPE OF SUPPLY | UOM | QTY | UNIT RATE | TOTAL RATE | REMARKS |
|-------|------------------------------------|---|-----------------|----------------|-----|-----------|------------|-----------------------------|
| 1 | Electrical System: | | | | | | | |
| 1.1 | Power Cable (35°C Ambient in Air) | 1C-50 rm NYY DG To ATS/MCOS 1C-50 NYY MAINS To ATS/MCOS 1C-50 NYY ATS/MCOS to LOAD | | Meter | N/A | | | EXISTING CABLE WILL BE USED |
| 1.2 | Power Cable Lugs | 50 rm , Material -Copper , Surface-Electro Tinned | | Pcs | N/A | | | |
| 1.3 | PVC Flexible Pipe | 2" dia | | Meter | N/A | | | |
| 1.4 | Control cable For Sensing | 4 X 1.2 rm (40/0.19 mm)Flexible Cable | | Meter(Appx) | 16 | 110 | 1,760 | |
| 1.5 | Saddle | 2" dia | | Pcs | N/A | | | |
| 1.6 | Royal Plug & Screw | 10 No. | | Pack | N/A | | | |
| 1.7 | PVC Tape | Adhesive Tape 04 color (Red/Yellow/Black/Blue) | | Pcs | 4 | 40 | 160 | |
| 1.8 | Royal Bolt | 10 no. | | Pcs | 10 | 35 | 350 | |
| 1.9 | Cable Tie | L - 10"/12" | | Pack | 1 | 250 | 250 | |
| 2 | Generator Earthing : | | | | | | | |
| 2.1 | Earthing Boring | Earthing of electrical installation with 38.1 mm (1.5") dia G.I. pipe (earth electrode) having 6.35 mm dia holes across the dia at 305 mm interval securedly bonded with washer, nuts, bolts etc. sunk upto a depth of 100 ft to attain earth resistance <1 ohm including blind socket for water pouring facility. Boring: 100' & GI Pipe: 10'+10' | | Job | 1 | 14,500 | 14,500 | |
| 2.2 | Earthing Copper Lead | Installation of solid copper wire earthing lead 2 SWG in 38.1 mm dia GI pipe & termination of connection at both end . | | Meter (apprx.) | 39 | 780 | 30,420 | |
| 2.3 | Earthing Block / Equipotential bar | Dimension 250mm X 30mm X 3mm with connection facility | | Pc | 1 | 3,000 | 3,000 | |
| 2.4 | Earthing Cable | 1 X 16rm BYA (Green) from Earthing Copper bar to gen & equipment | | Meter (apprx.) | 5 | 275 | 1,375 | |
| 2.5 | Earthing Cable lugs | 16 rm Material -Copper , Surface-Electro Tinned | | Pcs | 6 | 45 | 270 | |

MECHANICAL INSTALLATIONS

| | | | | | | | | |
|-----|--------------------------------|---|--|---------------|-----|-------|-------|---|
| 3 | Exhaust System: | | | | | | | |
| 3.1 | Exhaust Silencer straight Pipe | MS Pipe bore 3", thickness 3-4mm | | Feet(Apprx) | 5 | 650 | 3,250 | |
| 3.2 | Exhaust Bends /Elbow | Long radius 90 deg L bow, bore 3" | | Pcs | 2 | 650 | 1,300 | |
| 3.3 | Exhaust Flange | Threaded 3"dia | | Pcs | 2 | 470 | 940 | |
| 3.4 | Exhaust Heat Insulation | Insulation Of Pipe with Rockwool/Glasswool (25.4mm min thickness) along with 26 SWG Aluminium sheet cladding. | | Job | 1 | 4,500 | 4,500 | |
| 3.5 | Exhasut Fitting | All bracket, support must be made with MS angle 50X50X 4, flat bar etc | | Job | 1 | 3,500 | 3,500 | |
| 4 | Cooling System: | | | | | | | |
| 4.1 | Radiator Ducting | As per layout with 20/22 SWG MS sheet,Angle bar, flat bar support,Canvas cloth, iron net mesh etc | | Sq-ft (appx.) | N/A | | | Wall punch is required in front of radiator hot air passing |
| 5 | Commissioning Material: | | | | | | | |
| 5.1 | Radiator coolant | Havoline Premix Coolant | | Liter | 15 | 200 | 3,000 | |
| 5.2 | Lube oil | SAE 15 W 40 | | Liter | 10 | 425 | 4,250 | |
| 5.3 | Battery electrolyte | Specific gravity 1250 | | Liter | 10 | 65 | 650 | |
| 6 | DG On site delivery: | | | | | | | |
| 6.1 | Loading /Unloading/Lifting | Generator dry weight- 1600Kg | | Job | N/A | | | |
| 07 | Civil works: | | | | | | | |
| 7.1 | Generator foundation by RCC | Dimension L X W X D -10.5'X4.5'X6" | | Job | 1 | | | WILL BE DONE BY CLIENT |

***All the necessary civil works will be done by client with the instruction of CWPL engineer.

Total (BDT) Excl VAT & AIT:

73,475

Approved:

60,000/-
 Hossain
 26/10/17