

**CROSS WORLD POWER LIMITED**  
**BOQ OF 500KVA GENERATOR INSTALLATION**

**Cross-world**

Ensuring Power Since 1982

Client Name : NEWEST FASHION LTD Address : SAVAR

Date: 09/10/17

Gen Model:

Engine Model :

Alternator Model :

| Sl No                       | Job Description                               | Technical Details/ Brand                                                                                                                                                                                                                                                                                                                               | SOS    | Unit         | Quantity | Unit Rate | Total Rate | Remarks                                                                     |
|-----------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------|----------|-----------|------------|-----------------------------------------------------------------------------|
| 1                           | Electrical System:                            |                                                                                                                                                                                                                                                                                                                                                        |        |              |          |           |            |                                                                             |
| 1.1                         | Generator Power Cable (35 °C Ambient on air ) | 4 X 2 X 1C-240 mm NYY DG To ATS<br>4 X 2 X 1C-240 mm NYY MAINS To ATS                                                                                                                                                                                                                                                                                  |        | Meter        | 83       | 2,780     | 230,740    |                                                                             |
|                             |                                               | 4 X 2 X 1C-240 mm NYY ATS To MAINS                                                                                                                                                                                                                                                                                                                     |        | Meter        | 49       | 2,780     | 136,220    |                                                                             |
| 1.2                         | Power Cable Lugs                              | 240 mm, Material -Copper, Surface-Electro Tinned                                                                                                                                                                                                                                                                                                       |        | Pcs          | 50       | 270       | 13,500     | 503,180                                                                     |
| 1.3                         | Control cable For Sensing                     | 4 X 1.2 mm (40/0.19 mm) Flexible Cable                                                                                                                                                                                                                                                                                                                 |        | Meter (Appx) | 22       | 110       | 2,420      | Ac cable.                                                                   |
| 1.4                         | Royal Bolts                                   | 10 no.                                                                                                                                                                                                                                                                                                                                                 |        | Pcs          | 10       | 35        | 350        |                                                                             |
| 1.5                         | PVC Tape                                      | Adhesive Tape 04 color (Red/Yellow/Black/Blue)                                                                                                                                                                                                                                                                                                         |        | Pcs          | 12       | 40        | 480        |                                                                             |
| 1.6                         | PIB Tape                                      |                                                                                                                                                                                                                                                                                                                                                        |        | Pcs          | 4        | 600       | 2,400      |                                                                             |
| 1.7                         | Cable Tie                                     | L - 10"/12"                                                                                                                                                                                                                                                                                                                                            |        | Pack         | 3        | 250       | 750        |                                                                             |
| 1.8                         | Heat Shrink Tube                              | 240 mm R/Y/B/B                                                                                                                                                                                                                                                                                                                                         |        | Feet         | 8        | 105       | 840        |                                                                             |
| 2                           | Earthing System                               |                                                                                                                                                                                                                                                                                                                                                        |        |              |          |           |            |                                                                             |
| 2.1                         | Earthing Boring                               | Earthing of electrical installation with 38.10 mm (1.5") dia G.I. pipe (earth electrode) having 6.35 mm dia holes across the dia at 305 mm interval sectioned 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.<br>Boring: 100' & GI Pipe: 10'x10' | 12 HH  | Job          | 2        | 14,500    | 29,000     |                                                                             |
| 2.3                         | Earthing Copper Strip/ Lead                   | Installation of solid copper wire earthing lead 2X2 SWG in 38.10 mm dia GI pipe & termination of connection at both end.                                                                                                                                                                                                                               |        | Meter(Appx)  | 147      | 600       | 88,200     |                                                                             |
| 2.4                         | Earthing Block / Equipotential bar            | Dimension LXWxD - 300mm X 30mm X 20mm with connection facility, isolator, royal bolt etc                                                                                                                                                                                                                                                               |        | Pc           | 2        | 3,250     | 6,500      |                                                                             |
| 2.5                         | Earthing Cable                                | 1 X 240mm <sup>2</sup> NYY from Earthing Copper bar to gen & equipment                                                                                                                                                                                                                                                                                 |        | Meter(Appx)  | 18       | 2,600     | 46,800     |                                                                             |
| 2.6                         | Earth cable lugs                              | 240 mm, Material -Copper, Surface-Electro Tinned                                                                                                                                                                                                                                                                                                       |        | Pcs          | 6        | 270       | 1,620      | 172,120                                                                     |
| 3                           | Exhaust System                                |                                                                                                                                                                                                                                                                                                                                                        |        |              |          |           |            |                                                                             |
| 3.1                         | Exhaust Silencer Straight Pipe                | MS Pipe bore 152mm, thickness 3-4mm                                                                                                                                                                                                                                                                                                                    |        | Feet(Appx)   | 10       | 1,280     | 12,800     |                                                                             |
| 3.2                         | Exhaust Bends /Elbow                          | 152mm bore Long radius 90 deg L bow                                                                                                                                                                                                                                                                                                                    |        | Pcs          | 3        | 1,375     | 4,125      |                                                                             |
| 3.3                         | Exhaust Flange                                | Welding neck flange 152mm bore                                                                                                                                                                                                                                                                                                                         |        | Pcs          | 6        | 855       | 5,130      |                                                                             |
| 3.4                         | Exhasut Fitting                               | Support made with MS angle 50X50X5 mm, nut bolt, royal bolt, U clamp etc.                                                                                                                                                                                                                                                                              |        | Job          | 1        | 9,500     | 9,500      |                                                                             |
| 3.5                         | Exhaust Heat Insulation                       | Insulation with Rockwool/ Glasswool (37mm) and 2-3mm aluminium sheet cladding                                                                                                                                                                                                                                                                          |        | Job          | 1        | 8,500     | 8,500      |                                                                             |
| 4                           | Cooling System                                |                                                                                                                                                                                                                                                                                                                                                        |        |              |          |           |            |                                                                             |
| 4.1                         | Radiator Ducting                              | WXH= 5'X4', L=18'<br>Duct made with 22 SWG MS sheet, Angle bar, flat bar support, Canvas cloth and front side louvers.                                                                                                                                                                                                                                 |        | Sq-ft        | 324      | 272       | 88,428     | Duct will be through shade of DG room. Necessary water insulation is needed |
| 5                           | Commissioning Material                        |                                                                                                                                                                                                                                                                                                                                                        |        |              |          |           |            |                                                                             |
| 5.1                         | Radiator coolant                              | Havoline Premixed Coolant                                                                                                                                                                                                                                                                                                                              |        | Liter        | 60       | 200       | 12,000     |                                                                             |
| 5.2                         | Lube oil                                      | SAE 15 W 40                                                                                                                                                                                                                                                                                                                                            |        | Liter        | 60       | 420       | 25,200     |                                                                             |
| 5.3                         | Battery electrolyte                           | Specific gravity 1.250                                                                                                                                                                                                                                                                                                                                 |        | Liter        | 40       | 65        | 2,600      |                                                                             |
| 6                           | DG On site delivery:                          |                                                                                                                                                                                                                                                                                                                                                        |        |              |          |           |            |                                                                             |
| 6.1                         | Loading /Unloading/Lifting                    | Generator dry weight-3900Kg                                                                                                                                                                                                                                                                                                                            |        | Job          | 1        |           |            |                                                                             |
| 07                          | Civil works:                                  |                                                                                                                                                                                                                                                                                                                                                        |        |              |          |           |            |                                                                             |
| 7.1                         | Generator foundation                          | Dimension L X W = 12'-2"X4'-9" Depth D-12"                                                                                                                                                                                                                                                                                                             | CLIENT | Job          | 1        |           |            | Free of Cost                                                                |
| Total (BDT) Excl VAT & AIT: |                                               |                                                                                                                                                                                                                                                                                                                                                        |        |              |          |           | 864,023    | 763,428                                                                     |

MOHAMMAD SORIKUL ISLAM  
 SALES AND MARKETING

Start 24/10/2017  
 Finished 28/10/17