

**CROSS WORLD POWER LIMITED**  
**BOQ OF 60 KVA GENERATOR**

| CLIENT - Vivid Group     |                                             | ADDRESS- FARIDPUR                                                                                                                                                                                                                                                                                                  |     | DATE- 10.04.2017  |                             |           |            |                                          |
|--------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|-----------------------------|-----------|------------|------------------------------------------|
| GEN MODEL-               |                                             | ENGINE MODEL-                                                                                                                                                                                                                                                                                                      |     | ALTERNATOR MODEL- |                             |           |            |                                          |
| ELECTRICAL INSTALLATIONS |                                             |                                                                                                                                                                                                                                                                                                                    |     |                   |                             |           |            |                                          |
| SL NO                    | JOB DESCRIPTION                             | TECHNICAL DETAILS/ BRAND                                                                                                                                                                                                                                                                                           | SOS | UOM               | QTY                         | UNIT RATE | TOTAL RATE | REMARKS                                  |
| 1                        | Electrical System:                          |                                                                                                                                                                                                                                                                                                                    |     |                   |                             |           |            |                                          |
| 1.1                      | Power Cable (30 °C Ambient on underground ) | 4X25 mm NYY DG To ATS                                                                                                                                                                                                                                                                                              |     | Meter             | 15                          | 1,250     | 18,750     |                                          |
|                          |                                             | 4X25 NYY MDB To ATS                                                                                                                                                                                                                                                                                                |     | Meter             |                             |           |            |                                          |
|                          |                                             | 4X25 NYY ATS to LOAD (MDB)                                                                                                                                                                                                                                                                                         |     | Meter             |                             |           |            |                                          |
| 1.2                      | Power Cable Lugs                            | 25 mm , Material -Copper , Surface-Electro Tinned                                                                                                                                                                                                                                                                  |     | Pcs               | 26                          | 45        | 1,170      |                                          |
| 1.3                      | Control cable For Sensing                   | 4 X 1.2 mm (40/0.19 mm)Flexible Cable                                                                                                                                                                                                                                                                              |     | Meter             | 12                          | 110       | 1,320      |                                          |
| 1.4                      | PVC Flexible pipe for Power Cable           | 2"Ø                                                                                                                                                                                                                                                                                                                |     | Meter             | 15                          | 225       | 3,375      |                                          |
|                          | PVC Flexible pipe for Control Cable         | 0.5"Ø                                                                                                                                                                                                                                                                                                              |     | Meter             | 6                           | 95        | 570        |                                          |
| 1.5                      | Saddle for flexible Pipe                    | 2" dia                                                                                                                                                                                                                                                                                                             |     | Pcs               | 30                          | 20        | 600        |                                          |
| 1.6                      | Royal Plug & Screw                          | 1.5" length                                                                                                                                                                                                                                                                                                        |     | Pack              | 2                           | 145       | 290        |                                          |
| 1.7                      | PVC Tape                                    | Adhesive Tape 04 color (Red/Yellow/Black/Blue)                                                                                                                                                                                                                                                                     |     | Pcs               | 4                           | 40        | 160        |                                          |
| 1.8                      | PIB Tape                                    |                                                                                                                                                                                                                                                                                                                    |     | Pcs               | 1                           | 590       | 590        |                                          |
| 1.9                      | Royal Bolt                                  | 10 no.                                                                                                                                                                                                                                                                                                             |     | Pcs               | 10                          | 35        | 350        |                                          |
| 1.10                     | Cable Tie                                   | L - 6"/8 "                                                                                                                                                                                                                                                                                                         |     | Pack              | 1                           | 210       | 210        |                                          |
| 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. |     | Job               | N/A                         |           |            | NA                                       |
| 2.2                      | Earthing Copper Lead                        | Installation of solid cooper wire earthing lead 2 SWG in 38.1 mm dia GI pipe & termination of connection at both end .                                                                                                                                                                                             |     | Meter (approx.)   | N/A                         |           |            | NA                                       |
| 2.3                      | Earthing Block / Equipotential bar          | Dimension 20mm X 5mm with connection facility                                                                                                                                                                                                                                                                      |     | Pc                | 1                           | 2,500     | 2,500      |                                          |
| 2.4                      | Earthing Cable                              | 1 X 10mm BYA (Green ) from Earthing Copper bar to gen & equipment                                                                                                                                                                                                                                                  |     | Meter (approx.)   | 10                          | 215       | 2,150      |                                          |
| 2.5                      | Earthing Cable lugs                         | 10 mm Material -Copper , Surface-Electro Tinned                                                                                                                                                                                                                                                                    |     | Pcs               | 5                           | 35        | 175        |                                          |
| 3                        | Exhaust System:                             |                                                                                                                                                                                                                                                                                                                    |     |                   |                             |           |            |                                          |
| 3.1                      | Exhaust Silencer straight Pipe              | MS Pipe bore 3" ,thickness 3-4mm                                                                                                                                                                                                                                                                                   |     | Feet(Approx)      | 5                           | 625       | 3,125      | Exhaust considering bottom of the canopy |
| 3.2                      | Exhaust Bends /Elbow                        | Long radius 90 deg L bow                                                                                                                                                                                                                                                                                           |     | Pcs               | 1                           | 625       | 625        |                                          |
| 3.3                      | Exhaust Socket                              | Threaded 3"dia MS Socket                                                                                                                                                                                                                                                                                           |     | Pcs               | 2                           | 450       | 900        |                                          |
| 3.4                      | Exhaust Heat Insulation                     | Insulation Of Pipe with Rockwool/Glasswool (25.4mm min thickness) along with 1mm Aluminium sheet cladding.                                                                                                                                                                                                         |     | Job               | 1                           | 5,500     | 5,500      |                                          |
| 3.5                      | Exhasut Fitting                             | All bracket , support must be made with MS angle 50X50X 4, 5 & 6 MM                                                                                                                                                                                                                                                |     | Job               | 1                           | 4,500     | 4,500      |                                          |
| 04                       | Cooling System:                             |                                                                                                                                                                                                                                                                                                                    |     |                   |                             |           |            |                                          |
| 4.2                      | Radiator Ducting                            | WXH - 1.8'X1.8', L - 5' (appx.); 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                         |           |            |                                          |
| 5                        | Commissioning Material:                     |                                                                                                                                                                                                                                                                                                                    |     |                   |                             |           |            |                                          |
| 5.1                      | Radiator coolant                            | Havoline Premix Coolant                                                                                                                                                                                                                                                                                            |     | Liter             | 12                          | 250       | 3,000      |                                          |
| 5.2                      | Lube oil                                    | SAE 15 W 40                                                                                                                                                                                                                                                                                                        |     | Liter             | 10                          | 420       | 4,200      |                                          |
| 5.3                      | Battery electrolyte                         | Specific gravity 1250                                                                                                                                                                                                                                                                                              |     | Liter             | 10                          | 65        | 650        |                                          |
| 5.4                      | Diesel                                      | Diesel for Test Run                                                                                                                                                                                                                                                                                                |     | Liter             | 120                         | 80        | 9,600      |                                          |
| 6                        | DG On site delivery:                        |                                                                                                                                                                                                                                                                                                                    |     |                   |                             |           |            |                                          |
| 6.1                      | Loading /Unloading/Lifting                  | Generator dry weight with foreign canopy- 1350Kg                                                                                                                                                                                                                                                                   |     | Job               | 1                           |           | -          |                                          |
| 7                        | Civil Works:                                |                                                                                                                                                                                                                                                                                                                    |     |                   |                             |           |            |                                          |
| 7.1                      | DG Base                                     | Dimension (LXW)ft- ft, Depth, D- Inch RCC with NCF.                                                                                                                                                                                                                                                                |     | Job               | N/A                         |           |            | Already done by customer                 |
|                          |                                             |                                                                                                                                                                                                                                                                                                                    |     |                   |                             |           |            |                                          |
|                          |                                             |                                                                                                                                                                                                                                                                                                                    |     |                   | Total (BDT) Excl VAT & AIT: |           | 64,310     | Approved.                                |
|                          |                                             |                                                                                                                                                                                                                                                                                                                    |     |                   | Special Discount:           |           | 4,310      |                                          |
|                          |                                             |                                                                                                                                                                                                                                                                                                                    |     |                   | Total (BDT) Excl VAT & AIT: |           | 60,000     |                                          |

*Handwritten signature and date:*  
 13/04/2017