

CROSS WORLD POWER LIMITED
BOQ OF 1X500kVA GENERATOR INSTALLATION



Client Name : Team Tex Eco Apparels Ltd Address: Amin Bazar, Savar, Dhaka Date: 04.01.17

Gen Model: _____ Engine Model : _____ Alternator Model : _____

SI No	Job Description	Tehcnical Details/ Brand	SOS	Unit	Qty	Unit Rate	Total Rate	Remarks
1	Electrical System:							
1.1	Generator Power Cable (35 °C Ambient on air)	4 X 2 X 1C-185 rm NYY DG To ATS	Client	Meter	245			Power cable length may change upon the panel location and as well as cable route. Power cable, extend bus bar supply, Ladder installation and laying will done by client
1.2	Power Cable Lugs	185 rm, Material -Copper, Surface-Electro Tinned		Pcs	20	211	4,226	
1.3	Control cable For Sensing	4 X 1.2 rm (40/0.19 mm) Flexible Cable DG to ATS		Meter	65	131	8,483	
1.4	Royal Bolts	10 no.		Pcs	10	44	435	
1.5	PVC Tape	Adhesive Tape 04 color (Red/Yellow/Black/Blue)		Pcs	12	50	597	
1.6	PIB Tape			Pcs	3	715	2,144	
1.7	Cable Tie	L - 8"/10"		Pack	3	311	932	
2	Earthing System							
2.1	Earthing Boring	Earthing of electrical installation with full lenght 38.10 mm (1.5") dia G.I. pipe (earth electrode) having 0 SWG (8.23 mm) dia holes across the dia at 305 mm interval securedly bonded with washer, nuts, bolts etc. sunk upto a depth of 180 ft to attain earth resistance <1 ohm including blind socket for water pouring facility.	Client	Job	2	61,902		
2.2	Earthing Copper Strip/ Lead	Installation of solid copper wire earthing lead 0 SWG (Dia 8.23 mm) in 38.10 mm dia GI pipe & termination of connection at both end.	Client	Meter(Approx)	135	850		
2.3	Hardened Copper Tip with Rod	3/4" dia, length- 5' copper rod and hardened copper tip will use of the boring last end with necessary fittings	Client	Pcs	2	20,946		
2.4	GI pipe for Copper Lead wearing	3/4" GI Pipe with necessary fittings facilities	Client	Meter(Approx)	25	280		
2.5	GI pipe for Copper Lead wearing fitting charge	Laying of 0 SWG copper wire inside the 3/4" GI Pipe from earth pit to earthing Block at DG room with necessary connection facilities.	Client	Job	1	8,784		
2.6	Earthing Block / Equipotential bar	Dimension LXWXD - 300mm X 30mm X 10mm with connection facility, isolator, royal bolt etc		Pcs	2	3,667	7,334	
2.7	Earthing Cable	1 X 95mm2 BYA (Green) from Earthing Copper bar to gen & equipment		Meter(Approx)	16	1,125	17,999	
2.8	Earth cable lugs	95 rm, Material -Copper, Surface-Electro Tinned		Pcs	6	118	709	
3	Exhaust System							
3.1	Exhaust Silencer Straight Pipe	MS Pipe bore 152mm, thickness 3-4mm		Feet(Approx)	35	1,554	54,381	
3.2	Exhaust Bends /Elbow	152mm bore Long radius 90 deg L bow		Pcs	3	1,709	5,127	
3.3	Exhaust Flange	Welding neck flange 152mm bore		Pcs	10	1,057	10,566	
3.4	Exhasut Fitting	Support made with MS angle 50X50X5 mm, nut bolt, royal bolt, U clamp etc.		Job	1	20,666	20,666	
3.5	Exhaust Heat Insulation	Insulation with Rockwool/ Glasswool (37mm) and 2-3mm aluminium sheet clading		Job	1	18,491	18,491	
4	Cooling System							
4.1	Radiator Ducting	WXH - 5'X4.5', L -4 Duct made with 22 SWG MS sheet, Angle bar, flat bar support, Canvas cloth and front side louver.		Sq-ft	80	336	26,849	
5	Commissioning Material							
5.1	Radiator coolant & DM water mix	30 % Ethylene glycol 70 % DM Water		Liter	60	311	18,645	
5.2	Lube oil	SAE 15 W 40		Liter	60	522	31,324	
5.3	Battery electrolyte	Specific gravity 1.250		Liter	40	81	3,232	
6	Civil works:							
6.1	Generator foundation	Dim L X W (ft) - 13'X6', Depth D(ft): 1.5' RCC with 10mm MS rod @ 6" C/C		Job	1			Already done

Total (BDT): 227,912
Grand Total (BDT): 225,000 (TAF- 40,000)

NO
 Comm. Mat. Confirmation

2/10/17