

CROSS WORLD POWER LIMITED **BOQ OF 1X200KVA GENERATOR INSTALLATION**

Client Name : SHIN SHIN APPARELS LTD. Address : UTTARA

Gen Model:

Engine Model :

Alternator Model :

SI No	Job Description	Tehcnical Details/ Brand	SOS	Unit	Quantity	Unit Rate	Total Rate	Remarks
1	ELECTRICAL INSTALLATION							
1.1	Generator Power Cable (35 °C Ambient on air)	1 X 120 mm NYY DG to ATS 1 X 120 mm NYY LT to ATS 1 X 120 mm NYY ATS to EMDB		Meter (Approx.)	68 35 15	1,292 1,292 1,292	87,822 45,203 19,373	As per client, considering ATS and EMDB position adjacent to the existing ATS in Substation Room.
1.2	Control cable For Sensing	4 X 1.2 mm (40/0.19 mm) Flexible Cable Length 2xDG to ATS		Meter	34	111	3,764	
1.3	Power Cable Lugs	120 mm , Material -Copper , Surface-Electro Tinned		Pcs	25	95	2,363	
1.4	Royal Bolts	12 no.		Pcs	10	35	351	
1.5	PVC Tape	Adhesive Tape 04 color (Red/Yellow/Black/Blue)		Pcs	8	41	324	
1.6	PIB Tape			Pcs	1	602	602	
1.7	Cable Tie	L - 8" / 10"		Pack	4	250	1,001	
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 securely bonded with washer, nuts, bolts etc. sunk upto a depth of 100n ft to attain earth resistance <1 ohm including blind socket for water pouring facility. Boring: 100' & GI Pipe: 10'+10'		Job	1	14,501	14,501	Taking boring location adjacent to building SOUTH Sided Wall.
2.2	Earthing Copper Lead	Installation of solid cooper wire earthing lead 2 SWG in 38.1 mm (1.5") GI pipe & termination of connection at both end .		Meter(Approx)	33	601	19,840	
2.3	Earthing Cable	1 X 35mm2 BYA(Green) from Earthing Copper bar to gen & equipment		Meter(Approx)	10	369	3,690	Qty may vary upon the boring and equipotential bar location
2.4	Earthing Cable lugs	35mm Material -Copper , Surface-Electro Tinned		Pcs	4	41	162	
2.5	Earthing Block / Equipotential bar	Dimension (40X5)mm with connection facility		Pc	1	3,254	3,254	
3	EXHAUST SYSTEM							
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 5" ,thickness 4mm		Feet(Approx)	8	1,058	8,460	Silencer pipe will rise up to man height from EGL.
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow		Pcs	2	547	1,094	
3.3	Exhaust Flange	Welding neck flange 5" bore		Pcs	6	482	2,889	
3.5	Exhaust Heat Insulation	Insulation with Rockwool/ Glasswool (25mm) and 26SWG aluminium sheet cladding		Job	1	7,650	7,650	
3.6	Exhasut Fitting	U type support with threaded rod and necessary fitting on running pipe like flange, nut bolt, washer, gascate etc.		Job	1	5,850	5,850	
4	Cooling System:							
4.1	Radiator Ducting	W X H - 3'X3.7"; L - N/A As per layout with 20/22 SWG MS sheet, Angle bar, flat bar support, Canvas cloths, iron net mesh etc.		Sq-ft (Approx.)	N/A	-	-	As per client, no duct required.
5	Commissioning Material:							
5.1	Lube oil	SAE 15 W 40		Liter	20	428	8,550	
5.2	Battery electrolyte	Specific gravity 1250		Liter	20	67	1,332	
5.3	Radiator premixed coolant	Havoline		Liter	30	203	6,075	
6	DG On site delivery:							
6.1	Loading /Unloading/Lifting	Generator dry weight-1850Kg(Open)		Job	1	-	-	DG will be placed at basement.
7	Civil works:							
7.1	Generator foundation	Dimension L X W (ft) - 13.8X6, Depth: 10" RCC with NCF.		Job	1	-	-	Due to low room height for DG placement, DG 8" of 10" Base will be beneath the EGL.
Total (BDT) Excl VAT & AIT:							244,148	
VAT & AIT 9% (BDT):							24,148	
Total (BDT) Incl VAT & AIT:							268,295	

* All the necessary civil works will be done by client with CWPL engineer instruction.
 * Diesel Fuel for test run will be arranged by client.

1,56,088/-



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Total (Excl) 88,060/-
 9% = 8,710/-
 96,770/-

Incl. Vat & Ait -