

CROSS WORLD POWER LTD.
BOQ OF 1X650KVA GENERATOR INSTALLATION

Ensuring Power Since 1982

Client Name : Better Life Hospitals Ltd.

Address : ML Tower, Rampura, Dhaka.

Date: 18.05.16

Gen Model:

Engine Model:

Alternator Model:

SI No	Job Description	Technical Details/ Brand	Scope Of Supply	Unit	Quantity	Unit Sale	Total Sale	Remarks
1	Electrical System:							
1.1	Generator Power Cable (30 °C in Ground)	8 X 1C X 240 rm NYY DG -to ATS 8 X 1C X 240 rm MDB to ATS 8 X 1C X 240 rm ATS to LT		Meter	52	2,098	109,096	Cable laying will be through Cable Trench.
1.2	Cable Laying	Total cable- 1X240rm NYY Power Cable 51 Meter (appx.)		Meter	N/A			
1.3	PVC Flexible Pipe	1.5" Dia		Meter	55	2,098	115,390	
1.4	Control cable For Sensing	4 X 1.2 rm (40/0.19 mm) Flexible Cable		Job	1	8,694	8,694	
1.5	Cable Lugs	240 rm, Material -Copper, Surface-Electro Tinned		Meter	105	57	5,985	
1.6	Royal Bolts	12 no.		Pcs	15	73	1,095	
1.7	PVC Tape	Adhesive Tape 04 color (Red/Yellow/Black/Blue)		Pcs	55	188	10,340	
1.8	PIB Tape			Pcs	10	19	190	
1.9	Cable Tie	L - 10"/12"		Pcs	8	28	224	
1.10	Low noise axial industrial fan with proper connection facility.	Low noise industrial axial blower fan 20inch dia, 20000cfm, Fan SPL- 80dba @ 1meter. with connection accessories such as power cable, cable lugs, pvc flexible pipe etc.		Pcs	2	563	1,126	
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 min. 120\ ft to attain earth resistance <1 ohm including blind socket for water pouring facility.		Job	2	24,450	48,900	
2.2	Earthing Copper Strip/ Lead	Installation of solid cooper wire earthing lead 2 SWG in 25.4 mm dia GI pipe & termination of connection at both end.		Meter(Approx)	85	118	10,030	Qty may vary upon the boring location.
2.3	Earthing Block / Equipotential bar	Dimension (70X10)mm or equivalent with connection facility		Pc	1	3,563	3,563	
2.4	Earthing Cable	1 X 120mm2 BYA(Green) from Earthing Copper bar to gen & equipment		Meter(Approx)	10	1,088	10,880	Qty may vary upon the earth bar location.
2.5	Earth cable lugs	95 rm, Material -Copper, Surface-Electro Tinned		Pcs	6	56	336	
3	Exhaust System:							
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 8", thickness 4mm		Feet(Approx)	25	1,313	32,825	
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow		Pcs	3	1,875	5,625	
3.3	Exhaust Flange	Welding neck flange 8" bore		Pcs	8	1,063	8,504	
3.4	Exhaust Fitting	All bracket, support must be made with MS angle 50X50X 4, 5 & 6 MM		Job	1	6,250	6,250	
3.5	Exhaust Heat Insulation	Insulation Of Pipe with Rockwool/Glasswool (25.4mm min thickness) along with 26swg Aluminium sheet cladding.		Job	1	7,813	7,813	
4	Cooling System:							
4.1	Radiator Ducting for Hot Air	As per layout with 20/22 SWG MS sheet, Angle bar, flat bar, iron net mesh, support, Canvas cloth etc Duct dim. (WXH)ft- (5.9X4.9)ft, Running Length, L- 25ft		sft	540	225	121,500	
4.2	Radiator Ducting for Fresh Air	As per layout with 20/22 SWG MS sheet, Angle bar, flat bar, iron net mesh, support, Canvas cloth etc Duct dim. (WXH)ft- (4X2), Running Length, L- 13ft		sft	156 240	225	35,100 (+10,000)	
5	Commissioning Material for New 1X650kVA DG:							
5.1	Radiator Premix Coolant	Havoline		Liter	70	200	14,000	
5.2	Lube oil	SAE 15 W 40		Liter	60	438	26,280	
5.3	Battery electrolyte	Specific gravity 1.250		Liter	40	63	2,520	
6	DG On site delivery:							
6.1	Loading /Unloading/Lifting	Generator dry weight-3900 Kg (Open)		Job	1		-	
						Total	642,866	
7	Civil Works:							
7.1	DG Base	Base Dimension (LXW)ft- (13.1X7.1)ft, Depth, D- 12Inch, RCC with NCF.	Client	Job	1			
7.2	Punch for Fresh Air Inlet	Dimension (WXH)ft- (4X2)ft	Client	Job	1			
7.3	Punch For Hot Air Exhaust	Dimension (WXH)ft- (6X5)ft	Client	Job	1			

2100,000/-
 24/11/16

227,500
 227,500

Update BOQ by Muzam
Q 06/11/2017

Present BOQ note.

Existing note

3 Exhaust System:									
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 8" ,thickness 4mm	Feet(Approx)	30	1291	38730		1313	39390
			Pcs	4	1721	6884		1875	7500
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow	Pcs	11	1045	11495		1063	11693
3.3	Exhaust Flange	Welding neck flange 8" bore							
3.4	Exhasut Fitting	All bracket , support must be made with MS angle 50X50X 4, 5 & 6 MM	Job	1	10500	10500		* 6250	6250
3.5	Exhaust Heat Insulation	Insulation Of Pipe with Rockwool/Glasswool (25.4mm min thickness) along with 26swg Aluminium sheet clading.	Job	1	9500	9500		* 7813	7813
						0			
4 Cooling System:									
4.1	Radiator Ducting for Hot Air	As per layout with 20/22 SWG MS sheet,Angle bar, flat bar, iron net mesh, support,Canvas cloth etc Duct dim. (WXH)ft- (6'X4')ft, Running Length, L- 33ft	sft	700	246	172200		225	157500
4.2	Radiator Ducting for Fresh Air	As per layout with 20/22 SWG MS sheet,Angle bar, flat bar, iron net mesh, support,Canvas cloth etc Duct dim. (WXH)ft- (4X2), Running Length, L- 13ft	sft	N/A					
						249309			230146

Approve: 2,27,500/-

Tr. Diff: 2.646 F