

CROSS WORLD POWER LIMITED
BOQ OF 1X150KVA GENERATOR

CLIENT - Dr. MM. HASAN.

ADDRESS- COMILL/

GEN MODEL-		ENGINE MODEL-		ALTERNATOR MODEL-			
SL NO	JOB DESCRIPTION	TECHNICAL DETAILS/ BRAND	UOM	QTY	UNIT RATE	TOTAL RATE	REMARKS
1	Electrical System:						
1.1	Power Cable (35 °C Ambient on air)	4X1C 95mm NYY DG To ATS 4X1C 95mm NYY LT To ATS 4X1C 95mm NYY ATS To EMDB	Meter (Approx.)	8			As per client, they will manage these arrangements. They will take mains to ats sense with control cable.
				N/A			
				17			
1.2	Control cable For Sensing	4 X 1.2 mm (40/0.19 mm) Flexible Cable		37			
1.3	Power Cable Lugs	95 mm , Material -Copper , Surface-Electro Tinned	Pcs	18	105	1890	
1.4	Royal Bolt	10 no.	Pcs	10	35	350	
1.5	PVC Tape	Adhesive Tape 04 color (Red/Yellow/Black/Blue)	Pcs	8	40	320	
1.6	PIB Tape		Pcs	1	580	580	
1.7	Cable Tie	L - 8*10"	Pack	2	250	500	
2	Generator Earthing :						
2.1	Earthing Boring	Earthing of electrical installation with 38.1 mm (1.5") dia G.I. pipe throughly (2swg earth electrode) having 6.35 mm dia holes across dia at 305 mm interval securedly bonded with washer, nuts, bolts etc. sunk upto a depth of 100 ft with GIP pipe to attain earth resistance <1 ohm including blind socket for water pouring facility.	Job	N/A			As per client, already done.
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.)				
2.3	Earthing Block	Dimension LXWxD - 35mm X 5mm or equivalent with connection facility	Pc				
2.4	Earthing Cable	1 X 25 mm BYA (Green) from Earling Copper bar to gen neutral & equipment & ATS.	Meter (Approx.)	9	265	2385	Qty. depends upon the earth bar and panel position.
2.5	Earthing Cable lugs	25 mm Material -Copper , Surface-Electro Tinned	Pcs	5	45	225	
3	Exhaust System:						
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 4", thickness 3-4mm	Feet (Approx.)	15	900	13500	Silencer pipe will extend up to man height from EGL.
3.2	Exhaust Bends/Elbow	Long radius 90 deg MS L bow 4" bore 3-4mm	Pcs	3	875	2625	
3.3	Exhaust Flange	Welding neck flange 4" dia	Pcs	8	650	5200	
3.4	Exhaust Heat Insulation	Insulation Of Pipe with Rockwool/Glasswool (25.4mm min thickness) along with 26SWG Aluminium sheet cladding.	Job	1	10000	10000	
3.5	Exhasut Fitting	All bracket , support must be made with MS angle 50X50	Job	1	9000	9000	
4	Cooling System:						
4.1	Radiator Ducting	W X H - (24X9)inch; L - 16' (Approx.) As per layout with 20/22 SWG MS sheet,Angle bar, flat bar support,Canvas cloths, iron net mesh etc.	Sq-ft	89.6	300	26880	Qty. may changed upon the duct running length.
5	Commissioning Material:						
5.1	Radiator Coolant	Havoline Premixed Coolant	Liter	22	250	5500	
5.2	Lube oil	SAE 15 W 40	Liter	20	420	8400	
5.3	Battery electrolyte	Specific gravity 1250	Liter	10	65	650	
5.4	Diesel Fuel for commissioning	60% (Approx.) of total fuel tank capacity	Liter	240			Client will provide
6	DG On site delivery:						
6.1	Loading /Unloading/Lifting of 150KVA DG	Generator dry weight-2600 Kg	Job	1			DG already placed at site. DG Placement on base needed.
7	Civil Works:						
7.1	Punch for radiator hot air on DG Room Wall.	Dimension (LXW)ft- (2X2)ft.	Job	1			As per client, already done.
7.3	Generator Base	Dimension (LXW)ft- (12.3X5)ft, Depth, D- 5Inch RCC with NCF.	Job	1			
Total Price in BDT (Ex. VAT & AIT)						88005	

***All the necessary civil works will be done by client with the instruction of CWPL engineer.

Accepted as per necessary & requirement
Dr. MM. Hasan