

CROSS WORLD POWER LIMITED
BOQ OF 1XPM 400kVA GENERATOR

CLIENT - SMH NEW GENERATION APPAF		ADDRESS- NAOJOR, GAZIPUR CHOWRASTA, GAZIPUR.					DATE- 24.08.17	
GEN MODEL-		ENGINE MODEL-		ALTERNATOR MODEL-				REMARKS
SL NO	JOB DESCRIPTION	TECHNICAL DETAILS/ BRAND	SCOPE OF SUPPLY	UOM	QTY	UNIT RATE	TOTAL RATE	
1	Electrical System:							
1.1	Power Cable (35 °C Ambient on air)	1C-4X300mm NYY DG To ATS	Client	Meter (Approx.)	N/A	3551		As per client, they will manage these arrangements. Qty. depends upon the cable lying route. Power cable laying route will be through cable tray.
		1C-4X300mm NYY MAINS To ATS	Client			3551		
		1C-4X300mm NYY ATS to LOAD	Client			3551		
1.2	Power Cable Lugs	1X300 mm , Material -Copper , Surface-Electro Tinned	Client	Pcs	26	300		Taking MCOS position at DG room.
1.3	Control cable For Sensing	2 X 1.2 rm (40/0.19 mm) Flexible Cable		Meter	10	95		
1.4	PVC Flexible Pipe for Control Cable	Ø1"		Meter	9	245		
1.5	PVC Tape	Adhesive Tape 04 color (Red/Yellow/Black/Blue)		Pcs	12	30		
	PIB Tape			Pcs	2	475		
	Royal Bolt	10 no.		Pcs	10	35		
1.8	Cable Tie	L - 6"8 "		Pack	2	175		
2	Generator Earthing :							
2.1	Earthing Boring	Earthing of electrical installation with 38.5 mm (1.5") dia G.I. pipe throughly (2/0swg 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.	Client	Job	2	40000		As per client, they've already managed these arrangements.
2.2	Earthing Copper Lead	Installation of solid cooper wire earthing lead 2/0 SWG in 38.1 mm dia GI pipe & termination of connection at both end .	Client	Meter (Approx.)	N/A	850		
2.4	Earthing Cable	1 X 70 rm BYA (Green) from Earthing Copper bar to gen & equipment.	Client	Meter	N/A	685		
2.3	Earthing Block	Dimension LXWXD - 250mm X 40mm X 10mm with connection facility		Pc	1	2850		
2.5	Earthing Cable lugs	70 rm Material -Copper , Surface-Electro Tinned		Pcs	5	48		
3	Exhaust System:							
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 6" ,thickness 3-4mm		Feet(Approx)	9		11664	As per client, considering Silencer Exhaust Fume , discharge point will be up to 10ft (Approx.) from EGL.
						1296		
				Pcs	1	1375	1375	
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow		Pcs	4	885	3540	
3.3	Exhaust Flange	Welding neck flange 6" dia						
3.4	Exhaust Heat Insulation	Insulation Of Pipe with Rockwool/Glasswool (25.4mm min thickness) along with 1 mm Aluminium sheet cladding.		Job	1	8500	8500	
3.5	Exhasut Fitting	All bracket , support must be made with MS angle 50X50X 4, 5 & 6 MM		Job	1	7500	7500	
							0	
5	Commissioning Material:							
5.1	Radiator coolant	Havoline Premix Coolant		Liter	50	310		
5.2	Lube oil	SAE 15 W 40		Liter	40	435		
5.3	Battery electrolyte	Specific gravity 1250		Liter	20	62		
5.4	Diesel Fuel for Test Run	ASTM D975 No 1-D or No 2-D		Liter	450	80		Taking 60% (Approx.) of Total Fuel Tank Capacity.
6	Civil Works:							
6.1	DG Base	Dimension (LXW)ft- (12X5)ft, Depth, D- 12Inch RCC with NCF.	Client	Job	1			Already instructed to client.
Total (Excluding VAT & AIT)							32579	

- * All the necessary civil works will be done by client with the instruction of CWPL engineer.
 * As per client, they will replace the existing 275kVA DG with the new one only for temporary basis. Meantime they will construct the new DG Room and permanently shift the new DG.

Approve: 30,000
 [Signature]
 30/08
 2017