

CROSS WORLD POWER LIMITED

BOQ OF 1X150KVA GENERATOR

CLIENT - Mr. Topon

ADDRESS-

DATE-18.12.16

GEN MODEL-

ENGINE MODEL-

ALTERNATOR MODEL-

SL NO	JOB DESCRIPTION	TECHNICAL DETAILS/ BRAND	SOS	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 Mains To ATS 4X1C 95mm NYY ATS To Load	Clients Clients	Meter (Approx)	N/A			As per client, ATS & Substation Panel position don't confirmed yet. They'll manage these arrangements. Qty. depends upon the panel position.
1.2	Power Cable Lugs	95 mm , Material -Copper , Surface-Electro Tinned		Pcs	26	95	2,470	
1.3	Control cable For Sensing	4 X 1.2 mm (40/0.19 mm) Flexible Cable Cable Length- 2XPower Cable Length between DG to ATS	Clients	Meter	N/A			
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	2	575	1,150	
1.7	Cable Tie	L - 8"/10"		Pack	2	250	500	
1.8	20" dia low noise axial industrial blower fan with necessary connection and fixing/filling accessories (Such as 1nos. SP MCB, nut-bolt, 6mm NYY Power Cable etc.)	20000cfm, SPL- 85dBA @ 3meter.		Set	1	45,500	45,500	
2 Generator Earthing :								
2.1	Earthing Boring	Earthing of electrical installation with 38.1 mm (1.5") dia G.I. pipe throughly (2svg earth electrode) having 6.35 mm dia holes across dia at 305 mm interval securely 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. Boring: 100' & GI Pipe: 10'+10'		Job	1	14,500	14,500	As per client, Proposed Boring location beside North sided wall of DG Room.
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.)	35	570	19,950	Qty. depends upon the earth pit/boring location.
2.3	Earthing Block	Dimension LXWXD - 35mm X 5mm or equivalent with connection facility		Pc	1	2,500	2,500	
2.4	Earthing Cable	1 X 25 mm BYA (Green) from Earthing Copper bar to gen neutral & equipment & ATS.		Meter (Approx.)	7	255	1,785	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)	70	875	61,250	As per client, Silencer pipe will extend up to 5th Floor from E.G.L.
3.2	Exhaust Bends/Elbow	Long radius 90 deg MS L bow 4" bore 3-4mm		Pcs	4	875	3,500	
3.3	Exhaust Flange	Welding neck flange 4" dia		Pcs	10	570	5,700	
3.4	Exhaust Heat Insulation	Insulation Of Pipe with Rockwool/Glasswool (25.4mm min thickness) along with 26SWG Aluminium sheet cladding.		Job	1	18,500	18,500	
3.5	Exhaust Fitting	All bracket , support must be made with MS angle 50X50		Job	1	20,000	20,000	
5 Commissioning Material:								
5.1	Radiator Coolant	Havoline Premixed Coolant		Liter	25	250	6,250	
5.2	Lube oil	SAE 15 W 40		Liter	20	420	8,400	
5.3	Battery electrolyte	Specific gravity 1250		Liter	10	65	650	
5.4	Diesel Fuel for commissioning (Test Run Purpose)	60% (Approx.) of total fuel tank capacity		Liter	240	80	19,200	
6 DG On site delivery:								
6.1	Loading /Unloading/Lifting of 150KVA DG	Generator dry weight-2600 Kg	CWPL	Job	1	-	-	Free of Cost
							Total (BDT):	232,700
							Special Discount:	12,700
							Grand Total (BDT):	220,000

***All the necessary civil works will be done by client under the supervision of CWPL engineer.

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