

BOQ OF 1X20 KVA GENERATOR

Client Name : SIBL

Address: Bhairab

Date: 27.04.17

Gen Model:

Engine Model :

Alternator Model :

Sl No	Job Description	Tehcnical Details/ Brand	SOS	Unit	Quantity	Unit Rate	Total Rate	Remarks	SIBL / SP
1	Electrical System:								
1.1	Generator Power Cable (30 °C Ambient on air)	4C X 10 rm NYY DG to ATS 4C X 10 rm NYY MAINS to ATS 4C X 10 rm NYY ATS to DB		Meter (Approx.)	24 4 4	548 548 548	13,152 2,192 2,192	PDB connection of the building not arranged yet. As per client, DB and ATS location at 2nd floor. Qty. depends upon the panel position.	20 m include in sales rest cable will be billable.
1.2	Power Cable Lugs	10 rm,Material-Copper,Surface-Electro Tinned		Pcs	26	26	676		
1.3	Control cable For Sensing	4 X 1.2 rm (40/0.19 mm) Flexible Cable		Meter (Approx.)	18	110	1,980		
1.4	PVC Flexible Pipe	2" Dia		Meter (Approx.)	32	120	3,840		
1.5	Saddle for Flexible Pipe	2"		Pcs	50	28	1,400		
1.6	Royal Plug & Screw	2"		Pack	4	162	648		
1.7	Royal Bolts	10 no.		Pcs	10	36	360		
1.8	PVC Tape	Adhesive Tape 4 Color (Red/Yellow/Black/Blue)		Pcs	8	38	304		
1.9	PIB Tape			Pcs	1	625	625		
1.10	Cable Tie	6"/8"		Pack	2	245	490		
1.11	Power and control cable laying and execution works	4CX10rm NYY Power Cable length- 32meter (Approx.)		Meter (Approx.)	32	50	1,600		
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 securedly bonded with washer, nuts, bolts etc. sunk upto a depth of 80 ft 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		
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.)	28	625	17,500		
2.5	Earthing Block / Equipotential bar	Dimension 25mm2 with connection facility		Pc	1	2,850	2,850		
2.4	Earthing Cable lugs	6 rm, Material -Copper , Surface-Electro Tinned		Pcs	5	22	110		
2.3	Earthing Cable	1 X 6 rm 8YA (Green) from Earthing Copper bar to gen & equipment		Meter	10	135	1,350		
3	Exhaust System:								
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 3" ,thickness 3/4mm		Feet(Approx)	6	625	3,750	Silencer pipe will rise up to 9ft (Approx.) from EGL	
3.2	Pipe converter	2" by 3"		Pcs	1	450	450		
3.3	Exhaust Bends /Elbow	Long radius 90 deg L bow		Pcs	1	625	625		
3.4	Exhaust Threaded Socket	MS, Bore 3"		Pcs	1	450	450		
3.5	Exhaust Heat Insulation	Insulation Of Pipe with Rockwool/Glasswool (25.4mm min thickness) along with 1mm Aluminium sheet cladding.		Job	1	2,500	2,500		
3.6	Exhasut Fitting	All bracket , support must be made with MS angle 50X50X 4, 5 & 6 MM		Job	1	2,500	2,500		
4	Cooling System:								
4.1	Radiator Ducting for Hot Air	Dim. (WXH)sft- 5sft, Running Length- 8FT (APPROX) As per layout with 20/22 SWG MS sheet,Angle bar, flat bar support,Canvas cloth, iron net mesh etc.		Sq-ft (appx.)	40	270	10,800	Qty. depends upon the duct running length.	
5	Commissioning Material:								
5.1	Radiator Premix Coolant	Havoline		Liter	15	200	3,000		
5.2	Lube oil	SAE 15 W 40		Liter	10	462	4,620		
5.3	Battery electrolyte	Specific gravity 1250		Liter	10	65	650		
6	DG On site delivery:								
6.1	Loading /Unloading/Lifting	Generator dry weight-1100 Kg	CWPL	Job	1		-	DG location at ground floor.	
7	Civil works:								
7.1	Punch with grille for Radiator Hot Air & Silencer Pipe extension	Dimension WXH- 3.5ftX3.5ft	Client	Job	1		-		
7.2	East Side wall breaking for DG Room Entrance		Client	Job	1		-	As per Proposed Layout.	
Total (BDT) Incl Vat & Ait:							95,114		
Deduct 20m Cable price:							10,960	This will billable individually.	
Grand Total (BDT) Incl Vat & Ait:							84,154		
Special Discount:							14,154		
Net payable (BDT) Incl Vat & Ait:							70,000		

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

This will billable individually.

80,960

Additional Cable 200
Power Cable 4x10rm → 17m x 520 = 8,840f
Billable 16.05.17
16/05/2017

Regarding the **SIBL, Bhairab (20kVA)**. Our engineer **Mr. Abu Esa** visited the site yesterday on 14th May 2017. He found that the DG still not on the Base & also the commissioning materials are on the site. But unfortunately we found that the **Power cable, Control Cable & Earthling cable** is lower than the actual measurement. Blew I give the cable requirement status.

SL	Description of Cable	Cable as per BOQ	Requirement at actual Measurement	Extra Cable Required
1	Power Cable (4C X 10rm NYY)	32 Meter	52 Meter	20 M
2	Control Cable (4X1.2rm) flexible	18 Meter	52 Meter	34M
3	Earthling Cable(1C X 6rm BYA) Green	10 Meter	46 Meter	36M

No need location change.
 As per SP (Arif), Customer will pay 5m power cable bill against those mat.
 Need
 Need

In this circumstances without this cable we wouldn't able to complete the commissioning & handover. I'm requesting you to take your kind attention & action about this as your possibility.

For any further information, please feel free to contact with me.

Best Regards

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