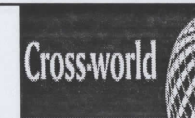


CROSS WORLD POWER LIMITED

BOQ OF 2X800kVA+1X350KVA GENERATOR INSTALLATION



Client Name : UTTARA MOTORS

Address :

Gen Model:

Engine Model :

Sl No	Job Description	Tehcnical Details/ Brand	Unit	Quantity	Unit Rate	Total Rate
1	Electrical System 2X800+1X350 KVA:					
1.1	Generator Power Cable (30 °C Ambient on ground,)				-	-
					-	-
					-	-
		500 rm, Material -Copper , Surface-Electro Tinned	Pcs	56	580.00	32,480.00
		300 rm, Material -Copper , Surface-Electro Tinned	Pcs	65	243.00	15,795.00
		185 rm, Material -Copper , Surface-Electro Tinned	Pcs	16	195.00	3,120.00
1.3	Control Cable For Sensing	4 X 1.2 rm (40/0.19 mm) Flexible Cable	Meter (Appx)	250	90.25	22,562.50
1.4	Communication Shield Cable	2 X 1.2 rm screened cable 120Ω resistance	Meter (Appx)	130	256.50	33,345.00
1.5	PVC Flexible Pipe	1.5" Dia	Meter (Appx)	70	49.50	3,465.00
1.6	Royal Bolt	12 no	Pcs	20	17.10	342.00
1.7	PVC Tape	Adhesive Tape 04 color (Red/Yellow/Black/Blue)	Pcs	20	22.50	450.00
1.8	PIB Tape		Pcs	6	405.00	2,430.00
1.9	Cable Tie	L - 10"/12"	Pack	20	162.00	3,240.00
1.10	Terminal bus bar	Terminal Bus Bar for 2X800 kVA, 12" each pcs with necessary fittings; (80X10mm)	Pcs	8	2,160.00	17,280.00
1.11	Heat Shrink Tube	04 color (Red/Yellow/Black/Blue) each pcs-2'	Feet (Appx)	20	180.00	3,600.00
1.12	Power Cable Laying	Above mentioned cable will laying on cable trench	Job	1	235,000.00	235,000.00
1.13	Cable Tray	Common Tray Dim W X D - 1200mm X 150mm; L-5m ; Single Tray Dim W X D - 400mm X 75mm; L-20m ; Made with GALVANIZED SHEET with painting, thickness 4mm (Capsule type). with painting and cover plate. Fixing with rcc floor by MS/GI rod, lock nut bolt and washer.	Job	1	135,000.00	135,000.00
2	Generator Earthing 2X800+1X350 KVA:				-	

2.1	Earthing Boring	Earthing of electrical installation with 38 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	5	10,800.00	54,000.00
2.2	Earthing Copper Lead	Installation of solid cooper wire earthing lead 2 SWG in 38 mm dia GI pipe & termination of connection at both end .	Meter(Appx)	180	432.00	77,760.00
	PVC Flexible Pipe	19mm dia pvc flexible pipe for copper lead wearing with necessary screw and saddle.	Meter(Appx)	30	75.60	2,268.00
2.3	Earhting Block / Equipotential bar	Dimension (WxD)mm - 50mm X 20mm with connection facility	Pcs	2	4,037.40	8,074.80
2.5	Earth cable lugs	240 rm ,Material -Copper , Surface-Electro Tinned	Pcs	5	220.00	1,100.00
2.6	Earth cable lugs	120 rm ,Material -Copper , Surface-Electro Tinned		10	150.00	1,500.00
2.7	Earth cable lugs	50 rm ,Material -Copper , Surface-Electro Tinned	Pcs	5	90.00	450.00
3	Exhaust System 2X800+1X350 KVA;				-	
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 8" ,thickness 3-4mm for 2X800kva	Feet(Appx)	60	1,170.00	70,200.00
		MS Pipe bore 6" ,thickness 3-4mm for 350kva	Feet(Appx)	30	1,098.00	32,940.00
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow for 2X800kva	Pcs	6	1,710.00	10,260.00
		Long radius 90 deg L bow for 350kva	Pcs	3	1,080.00	3,240.00
3.3	Exhaust Flange	Welding neck flange 8" bore for 2X800kva	Pcs	20	1,350.00	27,000.00
		Welding neck flange 6" bore for 2X800kva	Pcs	10	742.50	7,425.00
3.4	Exhasut Fitting for 2X800kVA DG (Include 2nos Silencer Box)	All bracket , support must be made with MS angle 50X50X 4, 5 & 6 MM	Job	1	22,500.00	22,500.00
	Exhaust Heat Insulation (Include 2nos Silencer Box) for 2X800kVA DG	Insulation Of Pipe with Rockwool 50mm min thickness along with 26SWG Aluminium sheet clading.	Job	1	40,500.00	40,500.00

3.5	Exhasut Fitting for 350kVA DG (Include 1nos Silencer Box)	All bracket , support must be made with MS angle 50X50X 4, 5 & 6 MM	Job	1	6,750.00	6,750.00
	Exhaust Heat Insulation (Include 1nos Silencer Box) for 350kVA DG	Insulation Of Pipe with Rockwool 50mm min thickness along with 26SWG Aluminium sheet clading.	Job	1	18,000.00	18,000.00
3.6	Exhaust Stack/Stand for 2X800kVA & 1X350kVA open DG silencer pipe and box	Made with 3" MS Pipe (approx. 215 (rft), 3"X3" MS Angle and flat bar with necessary fixings and fittings.Considered stack bottom height-10'	Job	1	103,242.60	103,242.60
4	Cooling System for 2X800+1X350 KVA:				-	
4.1	Radiator Ducting	For 2X800kVA DUCTING-WXDXL-5'X6'-RFT-4'; For 1X350kVA DUCTING-WXDXL-4'X4'-RFT-4'; As per layout with 20/22 SWG MS sheet, Angle bar, flat bar support, Canvas cloth etc	Sq-ft (Appx)	300	225.00	67,500.00
5	Commissioning Material 2X800+1X350 KVA:				-	
5.1	Radiator Coolant	Premix Coolant, Brand- Havoline	Liter	295	81.00	23,895.00
5.2	Lube oil	SAE 15 W 40	Liter	270	360.00	97,200.00
5.3	Battery electrolyte	Specific gravity 1.250	Liter	100	58.50	5,850.00
TOTAL						1,189,764.90

100% Advance

[Signature]
25/02/2018

TR. 10,000,000/-