

Habibur Rahman

From: Soheli Uddin Bhuiyan <sohel@cross-world.com>
Sent: Thursday, June 17, 2021 9:57 AM
To: 'Shipan Barua'
Cc: 'Md.Abusieed Sobuj'; habib@cross-world.com
Subject: Update BOQ for medona tower
Attachments: BOQ 1x500 KVA V2 13062021 - SALE.XLSX

FYKI

Thanks & regards,

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CROSS WORLD POWER LIMITED
INSTALLATION BOQ OF 1x500kVA GENERATOR

Cross-world



CLIENT - MEDONA TOWER

ADDRESS- MOHAKHALI, DHAKA

DATE: 13/6/2021

SL NO	JOB DESCRIPTION	TECHNICAL DETAILS	UOM	QTY	UNIT RATE	TOTAL RATE	Remarks
1	Electrical System:						
1.1	Power Cable (35 °C Ambient on air)	4x2x1C-185rm NYY DG To ATS 4x2x1C-185rm NYY MAINS To ATS 4x2x1C-185rm NYY ATS To LOAD	Meter	R/O	2,945		Client Scope
1.2	Power Cable Lugs	185rm, Material -Copper , Surface -Electro Tinned	Pcs	52	132	6,864	
1.3	Control cable For Sensing	4X 1.2 rm (40/0.19 mm) Flexible Cable	Meter	R/O	103		
1.5	PVC Flexible pipe	1"Ø for Control Cable	Meter	R/O	26		Quantity may vary subject to ATS location
1.8	Royal Bolt	10 no.	Pcs	10	18	180	Quantity may vary subject to DG & ATS location
1.9	PVC Tape	Adhesive Tape 04 color (Red/ Yellow/ Black/ Blue)	Pcs	24	29	696	
1.10	PIB Tape		Pcs	3	461	1,383	
1.11	Cable Tie	L - 12"	Pack	5	184	920	
1.12	Cable Tray	300X37 mm Made with 37x37x5 mm MS angle & 37x5 mm flatbar with painting. Support with threaded stick MS/GI rod, lock nut bolt and washer.	Meter	R/O	2,399		Client Scope
1.13	Cable Laying Charge	1C-185 rm NYY Laying & Termination	Meter	R/O	118		
2	Generator Earthing :						
2.1	Earthing Boring	120 rft	Job		-	-	Existing Earthing System will be used
2.2	Earthing Boring Copper Lead	2 SWG	Meter		-	-	
2.3	GI pipe	38mm dia	Meter		-	-	
2.4	Termination copper lead	2 SWG	Meter		-	-	
2.5	Earthing Block	Dimension LXWXD - 250mm X 40mm X 5mm with connection facility	Pcs		-	-	
2.6	Earthing Cable	1C- 95 rm BYA (Green) for DG Earthing	Meter	R/O	1,206		Client Scope
2.7	Earthing Cable lugs	95 rm, Material -Copper , Surface -Electro Tinned	Pcs	6	59	354	
3	Exhaust System:						
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 6" ,thickness 4mm	Meter	10	4,100	41,000	
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow (6"Bore)	Pcs	3	1,447	4,341	
3.3	Exhaust Flange	Welding neck flange 6" dia	Pcs	6	855	5,130	
3.4	Rain Cap	8" Dia	Pcs	1	1,500	1,500	
3.5	Exhaust Heat Insulation with Silencer Box	Insulation of pipe & muffler with Rockwool (37mm) and 26 SWG aluminium sheet clading	Job	1	20,658	20,658	
3.6	Exhaust Fitting with Silencer Box	With 50X50X5 mm MS Angle, flat bar, royal bolt, nut bolt etc with structure	Job	1	15,867	15,867	
4	Cooling System:						
4.1	Radiator Ducting	WXH- 4' x 5', L- 11' As per layout with 22 SWG MS sheet,Angle bar, flat bar support,Canvas cloth etc	Sq-ft	198	237	46,926	
5	Commissioning Material:						
5.1	Radiator coolant	Havoline Premix Coolant	Liter	60	160	9,600	
5.2	Lube oil	SAE 15 W 40 Delvac	Liter	60	400	24,000	
5.3	Battery electrolyte	Specific gravity 1.250	Liter	20	90	1,800	
5.4	Fuel	Diesel for Test Run (50% of Tank capacity)	Liter	550	-	-	Client Scope
6	DG On site delivery						
6.1	Loading /Unloading/Lifting	Generator dry weight- 4700Kg	Job	1	-	-	CWPL
7	Civil Works						
7.1	Generator Foundation	Base dimension (LXW)ft-17'5"X6' D-4" CC with NCF.	Job	1	-	-	Client Scope
TOTAL TK (Excluding VAT & AIT)						181,219	

Note: Related Civil work and Diesel for test will be arranged by Client as per instruction of CWPL Engineer.

Final BOQ Approved.

CROSS WORLD POWER LIMITED
INSTALLATION BOQ OF 1x500kVA GENERATOR

Cross-world

CLIENT - MEDONA TOWER

ADDRESS- MOHAKHALI, DHAKA

DATE: 13/6/2021

SL NO	JOB DESCRIPTION	TECHNICAL DETAILS	UOM	QTY	UNIT RATE	TOTAL RATE	Remarks
1	Electrical System:						
1.1	Power Cable (35 °C Ambient on air)	4x2x1C-185rm NYY DG To ATS 4x2x1C-185rm NYY MAINS To ATS 4x2x1C-185rm NYY ATS To LOAD	Meter				Client Scope
1.2	Power Cable Lugs	185rm, Material -Copper , Surface-Electro Tinned	Pcs				
1.3	Control cable For Sensing	4X 1.2 rm (40/0.19 mm) Flexible Cable	Meter				Quantity may vary subject to ATS location
1.5	PVC Flexible pipe	1"Ø for Control Cable	Meter				Quantity may vary subject to DG & ATS location
1.8	Royal Bolt	10 no.	Pcs				
1.9	PVC Tape	Adhesive Tape 04 color (Red/ Yellow/ Black/ Blue)	Pcs				
1.10	PIB Tape		Pcs				
1.11	Cable Tie	L - 12"	Pack	3	184	552	
1.12	Cable Tray	300X37 mm Made with 37x37x5 mm MS angle & 37x5 mm flatbar with painting. Support with threaded stick MS/GI rod, lock nut bolt and washer.	Meter				Client Scope
1.13	Cable Laying Charge	1C-185 rm NYY Laying & Termination	Meter				
2	Generator Earthing :						
2.1	Earthing Boring	120 rft	Job		-	-	Existing Earthing System will be used
2.2	Earthing Boring Copper Lead	2 SWG	Meter		-	-	
2.3	GI pipe	38mm dia	Meter		-	-	
2.4	Termination copper lead	2 SWG	Meter		-	-	
2.5	Earthing Block	Dimension LXWXD - 250mm X 40mm X 5mm with connection facility	Pcs		-	-	
2.6	Earthing Cable	1C- 95 rm BYA (Green) for DG Earthing	Meter	R/O			Client Scope
2.7	Earthing Cable lugs	95 rm, Material -Copper , Surface-Electro Tinned	Pcs	6			
3	Exhaust System:						
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 6" ,thickness 4mm	Meter	5	4,100	20,500	
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow (6"Bore)	Pcs	1	1,447	1,447	
3.3	Exhaust Flange	Welding neck flange 6" dia	Pcs	3	855	2,565	
3.4	Rain Cap	8" Dia	Pcs	1	1,500	1,500	
3.5	Exhaust Heat Insulation	Insulation of pipe & muffler with Rockwool (37mm) and 26 SWG aluminium sheet cladding	Job	1	9,250	9,250	
3.6	Exhaust Fitting	With 50X50X5 mm MS Angle, flat bar, royal bolt, nut bolt etc with structure	Job	1	8,203	8,203	
4	Cooling System:						
4.1	Radiator Ducting	WXH- 4' x 5', L- 11' As per layout with 22 SWG MS sheet,Angle bar, flat bar support,Canvas cloth etc	Sq-ft	198			
5	Commissioning Material:						
5.1	Radiator coolant	Havoline Premix Coolant	Liter	60			
5.2	Lube oil	SAE 15 W 40 Delvac	Liter	60			
5.3	Battery electrolyte	Specific gravity 1.250	Liter	20			
5.4	Fuel	Diesel for Test Run (50% of Tank capacity)	Liter	550			Client Scope
6	DG On site delivery						
6.1	Loading /Unloading/Lifting	Generator dry weight- 4700Kg	Job	1	-	-	CWPL
7	Civil Works						
7.1	Generator Foundation	Base dimension (LXW)ft-17'5"X6' D-4" CC with NCF.	Job	1	-	-	Client Scope
TOTAL TK (Excluding VAT & AIT)						44,017	
Ducting Reduces (54 sft x 237 /-) from previous PO						12,798	Prev. sft - 252
Grand Total (Additional) Excl. VAT & AIT:						31,219	

Note: Related Civil work and Diesel for test will be arranged by Client as per instruction of CWPL Engineer.

2

Additional BOQ

CROSS WORLD POWER LIMITED					Cross-world		
INSTALLATION BOQ OF 1x500kVA GENERATOR							
CLIENT - MEDONA TOWER		ADDRESS- MOHAKHALI, DHAKA			DATE: 12/4/2021		
SL NO	JOB DESCRIPTION	TECHNICAL DETAILS	UOM	QTY	UNIT RATE	TOTAL RATE	Remarks
1	Electrical System:						
1.1	Power Cable (35 °C Ambient on air)	4x2x1C-185rm NYY DG To ATS	Meter	R/O	2,561		Client Scope
		4x2x1C-185rm NYY MAINS To ATS	Meter	R/O	2,561		
		4x2x1C-185rm NYY ATS To LOAD	Meter	R/O	2,561		
1.2	Power Cable Lugs	185rm, Material -Copper , Surface-Electro Tinned	Pcs	52	132	6,864	
1.3	Control cable For Sensing	4X 1.2 rm (40/0.19 mm) Flexible Cable	Meter	R/O	103		Quantity may vary subject to ATS location
1.4	Communication Shield Cable	2X 1.2 rm For Sync	Meter	R/O	230		Quantity may vary subject to DG location
1.5	PVC Flexible pipe	1"Ø for Control & Communication Cable	Meter	R/O	26		Quantity may vary subject to DG & ATS location
1.8	Royal Bolt	10 no.	Pcs	10	18	180	
1.9	PVC Tape	Adhesive Tape 04 color (Red/ Yellow/ Black/ Blue)	Pcs	24	29	696	
1.10	PIB Tape		Pcs	3	461	1,383	
1.11	Cable Tie	L - 12"	Pack	2	184	368	
1.12	Cable Tray	300X37 mm Made with 37x37x5 mm MS angle & 37x5 mm flatbar with painting. Support with threaded stick MS/GI rod, lock nut bolt and washer.	Meter	R/O	2,399		Client Scope
1.13	Cable Laying Charge	1C-185 rm NYY Laying & Termination	Meter	R/O	118		
2	Generator Earthing :						
2.1	Earthing Boring	120 rft	Job		-	-	Existing Earthing System will be used
2.2	Earthing Boring Copper Lead	2 SWG	Meter		-	-	
2.3	GI pipe	38mm dia	Meter		-	-	
2.4	Termination copper lead	2 SWG	Meter		-	-	
2.5	Earthing Block	Dimension LXWXD - 250mm X 40mm X 5mm with connection facility	Pcs		-	-	
2.6	Earthing Cable	1C- 95 rm BYA (Green) for DG Earthing	Meter	R/O	1,206		Client Scope
2.7	Earthing Cable lugs	95 rm, Material -Copper , Surface-Electro Tinned	Pcs	6	59	354	
3	Exhaust System:						
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 6" ,thickness 4mm	Meter	5	4,100	20,500	
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow (6"Bore)	Pcs	2	1,447	2,894	
3.3	Exhaust Flange	Welding neck flange 6" dia	Pcs	3	855	2,565	
3.4	Exhaust Heat Insulation with Silencer Box	Insulation of pipe & muffler with Rockwool (37mm) and 26 SWG aluminium sheet clading	Job	1	15,263	15,263	
3.5	Exhaust Fitting with Silencer Box	With 50X50X5 mm MS Angle, flat bar, royal bolt, nut bolt etc with structure	Job	1	11,552	11,552	
4	Cooling System:						
4.1	Radiator Ducting	WXH- 4' x 5', L- 14 As per layout with 22 SWG MS sheet,Angle bar, flat bar support,Canvas cloth etc	Sq-ft	252	237	59,724	
5	Commissioning Material:						
5.1	Radiator coolant	Havoline Premix Coolant	Liter	60	160	9,600	
5.2	Lube oil	SAE 15 W 40 Delvac	Liter	60	400	24,000	
5.3	Battery electrolyte	Specific gravity 1.250	Liter	20	90	1,800	
5.4	Fuel	Diesel for Test Run (50% of Tank capacity)	Liter	550	-	-	Client Scope
6	DG On site delivery						
6.1	Loading /Unloading/Lifting	Generator dry weight- 4700Kg	Job	1	-	-	CWPL
7	Civil Works						
7.1	Generator Foundation	Base dimension (LXW)ft-17'5"X6' D-4" CC with NCF.	Job	1	-	-	Client Scope
TOTAL TK (Excluding VAT & AIT)						157,743	
(Less) Special discount						7,743	
TOTAL Price (Excluding VAT & AIT)						150,000	
Note: Related Civil work and Diesel for test will be arranged by Client as per instruction of CWPL Engineer.							



14 300 Approval