

## Habibur Rahman

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**From:** Ashim Kumar Roy <ashim.roy@summitcommunications.net>  
**Sent:** Sunday, March 04, 2018 3:08 PM  
**To:** 'Md. Ariful Islam'  
**Cc:** 'Habibur Rahman Javed'; moazzem@cross-world.com  
**Subject:** RE: Request for arrange the site visit & materials list for Barishal Site

Dear Concern,

Only line item 1.9 will be omitted.

Thanks with regards  
Ashim Roy

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**From:** Ashim Kumar Roy [mailto:ashim.roy@summitcommunications.net]  
**Sent:** Thursday, March 01, 2018 11:50 PM  
**To:** 'Md. Ariful Islam'  
**Cc:** 'Habibur Rahman Javed'; 'moazzem@cross-world.com'  
**Subject:** RE: Request for arrange the site visit & materials list for Barishal Site

Dear Concern,

Line item 1.9 & 3.7 will be omitted.

Thanks with regards  
Ashim Roy

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**From:** Md. Ariful Islam [mailto:ariful@cross-world.com]  
**Sent:** Thursday, March 01, 2018 10:45 AM  
**To:** ashim.roy@summitcommunications.net  
**Cc:** 'Habibur Rahman Javed'; moazzem@cross-world.com  
**Subject:** Request for arrange the site visit & materials list for Barishal Site

FYI.....

BR

**Ariful Islam** | **CROSS WORLD POWER LTD** | **Manager , Sales** | | Plot 1/B, Road 90, Gulshan - 2, Dhaka 1212, Bangladesh | p: +880 2 5881 1858, 989 1442 | f: +880 2 5881 5160 | m: +8801755-514731, 01917-702 131 | e: [ariful@cross-world.com](mailto:ariful@cross-world.com) | w: [www.cross-world.com](http://www.cross-world.com)

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**From:** Md. Ariful Islam [mailto:ariful@cross-world.com]  
**Sent:** Wednesday, February 28, 2018 11:25 AM  
**To:** 'moazzem@cross-world.com' ([moazzem@cross-world.com](mailto:moazzem@cross-world.com))  
**Subject:** FW: Request for arrange the site visit & materials list.

**CROSS WORLD POWER LIMITED**  
**BOQ OF 1X45 kVA GENERATOR**

CLIENT - SUMMIT COMMUNICATIONS LTI ADDRESS- BARISHAL CORE

DATE- 02.11.2017

GEN MODEL-		ENGINE MODEL-	ALTERNATOR MODEL-					
SL NO	JOB DESCRIPTION	TECHNICAL DETAILS/ BRAND	SOS	UOM	QTY	UNIT RATE	TOTAL RATE	REMARKS
1	<b>Electrical System:</b>							
1.1	Power Cable (35 °C Ambient on air )	4CX16 rm NYY DG To ATS	SCL	Meter (Approx.)	48			Quantity may vary upon the cable laying route or panel location.
		4CX16 rm NYY Mains To ATS	SCL		5			
		4CX16 rm rm NYY ATS to Load	SCL		5			
1.2	Power Cable Lugs	16rm , <b>Material</b> -Copper , <b>Surface</b> -Electro Tinned		Pcs	26	23	598	As per WO.
1.3	Control cable For Sensing	4 X 1.2 rm (40/0.19 mm) Flexible Cable	SCL	Meter (Approx.)	100			
1.4	PVC Tape	Adhesive Tape 04 color (Red/Yellow/Black/Blue)		Pcs	8	27	216	As per WO.
1.5	Flexible pipe	dia 1.5"		Meter (Approx.)	60	135	8,100	As per WO.
1.6	PIB Tape			Pcs	1	388	388	As per WO.
1.7	Royal Bolt	10 no.		Pcs	10	27	270	As per WO.
1.8	Saddle	1.5"		Pcs	50	20	1,000	As per WO.
1.9	Royal Plug	10 No.		Pack	2	131	262	As per WO.
1.10	Screw	1" Star		Pc	100	11	1,100	As per WO.
1.11	Cable Tie	L - 6"/8 "		Pack	3	153	459	As per WO.
1.12	Cable Laying Support	Cable will run on the 3" dia MS pipe support above 17' ft from groun level.required 2 nos MS pipe. MS pipe length- 20'.Distance between 2 pole 15' . 1.5"X1.5"X3/4mm, length 2' angle bar will welded top of the MS Pipe supply & installation.	SCL	Job	1			Out of WO
1.13	Cable Laying charge			Meter	58	45	2,610	As per WO.
2	<b>Generator Earthing :</b>							
2.1	Earthing Boring	Earthing of electrical installation with 38.1 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 120 ft with GIP pipe to attain earth ressisstance <1 ohm including blind socket for water pouring facility.	SCL	Job	1			
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 .	SCL	Meter (Approx.)	40			
2.3	Earhting Equipotential Bar	Dimension LXWXD - 250mm X 20mm X 4mm or equivalent with connection facility		Pc	1	2,256	2,256	As per WO.
2.4	Earthing Cable	1 X 10 rm BYA (Green ) from Earthing Copper bar to gen & equipment	SCL	Meter (Approx.)	5			
2.5	Earthing Cable lugs	10 rm <b>Material</b> -Copper , <b>Surface</b> -Electro Tinned		Pcs	5	20	100	As per WO.
3	<b>Exhaust System:</b>							
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 2.5" ,thickness 3-4mm		Feet (Approx)	20	469	9,380	As per WO.
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow		Pcs	3	528	1,584	As per WO.
		Threaded 2.5"dia MS Socket		Pcs	3	411	1,233	As per WO.
3.4	Reducer	2.5"/3"		Pcs	1	528	528	As per WO.
3.5	Exhaust Heat Insulation	Insulation Of Pipe with Rockwool/Glasswool (25.4mm min thickness) along with 26SWG Aluminium sheet clading.		Job	1	4,500	4,500	Out of WO (considering 20 feet)
3.6	Exhasut Fitting	All bracket , support must be made with MS angle 50X50X 4, 5 & 6 MM		Job	1	4,200	4,200	Out of WO (considering 20 feet)
3.7	For Exhaust support	need one nos 3" dia MS pipe, length- 20' for exhaust pipe support supply & installation.		Job	1	14,500	14,500	Out of WO
4	<b>Cooling System:</b>							
4.1	Radiator Ducting	As per layout with 20/22 SWG MS sheet,Angle bar, flat bar support,Canvas cloth, Iron mesh etc Duct Dim. (WXH)ft- (1.8X1)ft, Running Length, L- 8ft (Approx.)		Sq-ft (Approx.)	N/A			
5	<b>Commissioning Material:</b>							
5.1	Radiator coolant	Havoline Premix Coolent	CWPL	Liter	15			Free
5.2	Lube oil	SAE 15 W 40	CWPL	Liter	10			Free
5.3	Battery electrolyte	Specific gravity 1.250	CWPL	Liter	10			Free
7	<b>Civil works:</b>							
7.1	Generator foundation	Dimension (L X W)ft - (9.5X6)ft Depth D: 5inch RCC with NCF.	Client	Job	N/A			As per client, already done.
Total BDT:						53,284		
*** All the related civil works will be done by client with CWPL Engineer instruction. Before commissioning contact with our Engr. Dulal - 01755514761								