

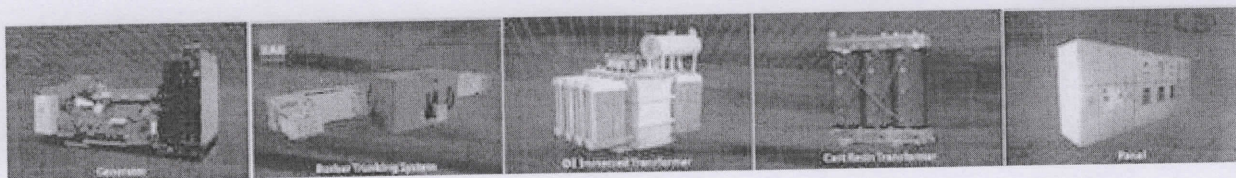
**Md. Al- Miraj**


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**From:** Habibur Rahman <habib@cross-world.com>  
**Sent:** Sunday, August 12, 2018 4:59 PM  
**To:** 'Al-Miraj'  
**Subject:** FW: Materials required for Installation, Commissioning, Earthing  
**Attachments:** BOQ MMIL\_350kVA-24.06.18.xlsx

Sincerely,

**Md. Habibur Rahman | CROSS WORLD POWER LTD** | Manager, Customer Relations | House 1/B, Road 90, Gulshan-2 Dhaka 1212, Bangladesh | Cell: +88 (02) 01755514711, p: +880 2 5881 1858, 989 1442 | f: +880 2 5881 5160  
|e: [habib@cross-world.com](mailto:habib@cross-world.com) | w: [www.cross-world.com](http://www.cross-world.com)




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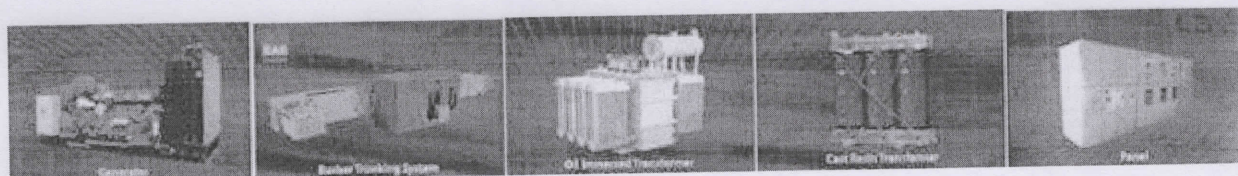
**From:** Sohel Uddin Bhuiyan [<mailto:sohel@cross-world.com>]  
**Sent:** Sunday, August 12, 2018 2:27 PM  
**To:** [habib@cross-world.com](mailto:habib@cross-world.com)  
**Subject:** FW: Materials required for Installation, Commissioning, Earthing

FYKI

**Sohel Uddin Bhuiyan | CROSS WORLD POWER LIMITED** | Manager, Sales | Plot-1/B, Road 90, Gulshan - 2, Dhaka 1212, Bangladesh | Cell: **01755514780** | p: +880 2 5881 1858, 989 1442 | f: +880 2 5881 5160 | e: [sohel@cross-world.com](mailto:sohel@cross-world.com) | w: [www.cross-world.com](http://www.cross-world.com)

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**From:** shaon\_sc [[mailto:shaon\\_sc@mmispahani.com](mailto:shaon_sc@mmispahani.com)]  
**Sent:** Sunday, August 12, 2018 1:47 PM  
**To:** [sohel@cross-world.com](mailto:sohel@cross-world.com)  
**Cc:** [fawzia@mmispahani.com](mailto:fawzia@mmispahani.com); [manwar6987@mmispahani.com](mailto:manwar6987@mmispahani.com); [abdul.hannan@colocity.com.bd](mailto:abdul.hannan@colocity.com.bd); [chandan.saha@ispahanibd.com](mailto:chandan.saha@ispahanibd.com)  
**Subject:** Materials required for Installation, Commissioning, Earthing



Dear Sohel Bhai,

Regarding recent purchase order for 350 KVA Prime Diesel Generator, please arrange the Materials required for Installation, Commissioning, Earthing of the Genset. We will pay for the same on the basis of actual consumption.

Note- You gave a estimate costing BDT-97484 for this with your offer.

Regards

Shaon



# CROSS WORLD POWER LIMITED

## BOQ OF 350kVA GENERATOR

CLIENT - MFM ISPAHANI LIMITED

ADDRESS- DHAKA

DATE- 22.07.18

GEN MODEL-

ENGINE MODEL-

ALTERNATOR MODEL-

SL NO	JOB DESCRIPTION	TECHNICAL DETAILS/ BRAND	SCOPE OF SUPPLY	UOM	QTY	UNIT RATE	TOTAL RATE	REMARKS
<b>1</b>	<b>Electrical System:</b>							
1.1	Power Cable (35 °C Ambient on air )	1C 240 rm NYY DG to ATS	Client	Meter	N/A	-	-	Existing power cable & related materials will used
1.2	Power Cable Lugs	240 rm Material -Copper , Surface-Electro Tinned		Pcs	16	263	4,208	
1.3	Control cable For Sensing	4X 1.2 rm (40/0.19 mm) Flexible Cable		Meter	15	87	1,305	
1.4	PVC Flexible Pipe	1" Dia		Meter	8	26	208	
1.5	PVC Tape	Adhesive Tape 04 color (Red/Yellow/Black/Blue)		Pcs	4	29	116	
1.6	PIB Tape			Pcs	1	461	461	
1.7	Royal Bolt	10 no.		Pcs	8	18	144	
1.8	Cable Tie	L - 8"/10"		Pack	2	158	316	
1.9	Cable Ladder	WXD-450X50mm Made with 50x50mm MS Angle and Flat Bar, Thickness- 4,5mm	Client	Meter	N/A	-	-	
<b>2</b>	<b>Earthing System</b>							
2.1	Earthing Boring	1nos, 100ft each					-	Existing boring will used
2.2	GI Pipe (Boring)	38.1mm Dia G.I. Pipe with accessories					-	
2.3	Earthing Copper Lead (Boring)	Installation of solid cooper wire earthing lead 2 SWG in 38.1 mm dia GI pipe & termination of connection at both end		Meter	N/A		-	
	Earthing Copper Lead (Termination)	Installation of solid cooper wire earthing lead 2 SWG in 38.1 mm dia GI pipe & termination of connection at both end					-	
2.4	Earthing Block	Dimension LXWXD - 250mm X 40mm X 5mm with connection facility		Nos.	1	2,368	2,368	
2.5	Earthing Cable	1 X 50rm BYA (Green ) from Earthing Copper bar to gen & equipment	Client	Meter	10	615	6,155	
2.6	Earth cable lugs	50rm Material -Copper , Surface-Electro Tinned		Nos.	4	33	132	
<b>3</b>	<b>Exhaust System:</b>							
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 6", thickness 3-4mm		Meter	3	4,100	12,300	
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow 6" bore		Pcs	2	2,171	4,342	
3.3	Exhaust Bends / Elbow with Flange	Welding neck flange 6" dia		Pcs	3	855	2,565	
3.4	Exhaust Heat Insulation (Including 1nos. Residential silencer box)	Insulation Of Pipe with Rockwool (50mm thickness) along with 26SWG GP sheet jacketing		Job	1	11,790	11,790	
3.5	Exhasut Fitting (Including 1nos. Residential silencer box)	All bracket , support must be made with MS angle 50X50X 4, 5 & 6 MM		Job	1	7,194	7,194	
<b>4</b>	<b>Cooling System:</b>							
4.1	Radiator Ducting	As per layout with 22 SWG MS sheet,Angle bar, flat bar support,Canvas cloth etc		Sq-ft	80	237	18,960	
<b>5</b>	<b>Commissioning Material:</b>							
5.1	Radiator coolant	Havoline Premix Coolent		Liter	60	86	5,160	
5.2	Lube oil	SAE 15 W 40		Liter	40	461	18,440	
5.3	Battery electrolyte	Specific gravity 1.250		Liter	20	66	1,320	
5.4	Fuel	Diesel For Test Run		Liter	N/A	-	-	
<b>6</b>	<b>Rubber Pad</b>							
6.1	S&I of Rubber Pad	Supply & Installation of Rubber Pad between DG legs & floor/Foundation. DIM-- LXW-- 12" X 12". Thickness-- 37MM		Pcs	N/A	-	-	
<b>7</b>	<b>DG On site delivery:</b>							
7.1	Loading /Unloading/Lifting	Generator dry weight-4200 Kg		Job	1		-	
TOTAL TK--							97,484	

**Note:**

-- All necessary civil work will done by client as per CWPL engineer instruction.