

## Md. Al-Miraj

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**From:** Paul <paul@cross-world.com>  
**Sent:** Monday, December 04, 2017 4:17 PM  
**To:** miraj@cross-world.com  
**Cc:** 'Md. Moazzem Hossain'; mahmudur@cross-world.com; rezwanul@cross-world.com; 'Md. Habibur Rahman '; 'Md. Abdul Hai Haroon'  
**Subject:** FW: Commissioning Materials-80KVA  
**Attachments:** ALS Farms\_BOQ\_\_80 KVA-Final Copy.xlsx  
  
**Importance:** High

Dear Miraj

Please give Requisition of commissioning materials for that attached BOQ. Client will provide payment after receiving the materials at site.

**Delivery time : 7/12/2017**

Dear Moazzem Vhai

Please take care of that issue seriously and also arrange commissioning of that 80KVA DG set on the same day (7/12/2017).

**Arunangshu Paul | CROSS WORLD POWER LTD | Manager,Sales** | Plot 1/B, Road 90, Gulshan - 2, Dhaka 1212, Bangladesh | p: +880 2 881 1858, 989 1442 | f: +880 2 881 5160 | m: 01755514747 | e: [paul@cross-world.com](mailto:paul@cross-world.com) | w: [www.cross-world.com](http://www.cross-world.com)

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**From:** Sharif Mirza [mailto:sharif.mir84@googlemail.com]  
**Sent:** Monday, December 4, 2017 4:08 PM  
**To:** Paul  
**Subject:** Re: Commissioning Materials-80KVA

Dar Mr. Paul,

Please proceed on asap and try to deliver the materials at my site as soon as possible but not later than Thursday.

Thank you.  
Sharif

On 4 Dec 2017 4:01 pm, "Paul" <[paul@cross-world.com](mailto:paul@cross-world.com)> wrote:

Dear Sharif Vhai

Please find herewith the attached Revised BOQ with Price for Commissioning related materials.

**Arunangshu Paul | CROSS WORLD POWER LTD | Manager,Sales** | Plot 1/B, Road 90, Gulshan - 2, Dhaka 1212, Bangladesh | p: +880 2 881 1858, 989 1442 | f: +880 2 881 5160 | m: 01755514747 | e: [paul@cross-world.com](mailto:paul@cross-world.com) | w: [www.cross-world.com](http://www.cross-world.com)

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## CROSS WORLD POWER LIMITED

### BOQ OF 80 KVA GENERATOR

CLIENT - ALS FARMS LTD.		ADDRESS- TANGAIL		DATE- 30/11/17			
GEN MODEL-		ENGINE MODEL-		ALTERNATOR MODEL-			
ELECTRICAL INSTALLATIONS							
SL NO	JOB DESCRIPTION	TECHNICAL DETAILS/ BRAND	UOM	QTY	UNIT RATE	TOTAL RATE	REMARKS
01	Electrical System:						
1.1	Power Cable for DG (35 °C Ambient on air)	1C- 35 mm NYY DG To ATS	Meter	28	406	11,368	CABLE QTY NEED TO CONFIRM BEFORE PERMANENT INSTALLATION
		1C- 35 mm NYY MAINS To ATS	Meter				
		1C- 35 mm NYY ATS To LOAD	Meter				
1.2	Power Cable Lugs	35 mm, Material -Copper , Surface-Electro Tinned	Pcs.				
1.3	Control cable For Sensing	4 X 1.2 mm (40/0.19 mm) Flexible Cable	Meter				
1.4	PVC Flexible pipe	2.5" inner Ø	Meter				MAY CHANGE AS PER CONFIRMED CABLE QTY
1.5	Saddle for Flexible Pipe	2.5"	Pcs	30	15	450	DO
1.6	Royal Plug & Screw	10 no & 1" Star	Pack	2	170	340	
1.7	Royal Bolt	10 no.	Pcs	10	35	350	
1.8	PVC Tape	Adhesive Tape 04 color (R/Y/B/Black)	Pcs	8	40	320	
1.9	Cable Tie	L - 12"	Pack	2	250	500	
1.10	Power Cable Laying	35 mm cable Laying & connection	Meter				
1.11	Breaker Extension Bar	WxD- 25x5 mm	Feet	3	3,000	9,000	
02	Generator Earthing :						
2.1	Earthing Boring	Earthing of electrical installation with 37 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 100 ft to attain earth resssistance <1 ohm including blind socket for water pouring facility.	Job	N/A			EARTHING DONE BY CLIENT
2.2	Earthing Copper Lead	Installation of solid copper wire earthing lead 2 SWG in 37 mm dia GI pipe & termination of connection at both end .	Meter (Appx)	N/A			
2.3	Earthing Block / Equipotential bar	LXWXD- 300mm X 20mm X 5mm with connection facility	Pc	1	2,650	2,650	
2.4	Earthing Cable	1 X 16 mm BYA (Green) from Earthing Copper bar to gen & equipment	Meter (Appx)	8	170	1,360	
2.5	Earthing Cable lugs	16 mm Material -Copper , Surface-Electro Tinned	Pcs	6	22	132	
3	Exhaust System:						
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 75mm, thickness 3-4mm	Feet(Appx)				
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow 75mm bore	Pcs				
3.3	Exhaust Socket	MS Socket 75mm inner dia	Pcs				
3.4	Exhaust Heat Insulation	Insulation of pipe & muffler with Glasswool (25mm) and 26 SWG aluminium sheet clading	Job				
3.5	Exhasut Fitting	With MS angle 37X37X5 mm, flat bar, nut bolt, Royal Bolt etc.	Job				
4	Cooling System:						
4.1	Radiator Ducting for Hot Air	WXH- , L-	Sq-ft	N/A			
5	Comissioning Material:						
5.1	Radiator coolant & DM Water Mix	Havoline Premixed Coolant	Liter	15	200	3,000	
5.2	Lube oil	SAE 15 W 40	Liter				
5.3	Battery electrolyte	Specific gravity 1250	Liter				
			Total (BDT) Excl VAT & AIT:			29,470	