

Ref: MPD/EHL (Apt)/2020/437
Indent No. MEP30

Cross World Power Ltd.
Plot- 1/B, Road- 90, Gulshan-2
Dhaka-1212.

Date: September 28, 2020

Attn : **Md. Rashedul Islam**, Executive, S. & M.,
Cell Phone : 01755514865.

Md. Sohel Uddin Bhuiyan, Manager, S. & M.
Cell Phone : 01755514780

Sub : **Work Order for Supplying, Installation, Testing and Commissioning of 60 KVA (Prime) Diesel Generator set with Canopy & ATS for Eastern Housing project at 14, New Baily Road, Dhaka.**

Dear Sir

With reference to your quotation No. CWPL-AM/5807/20-R01F, dated September 22, 2020 and subsequent discussions our management are pleased to award this work order for the supply, installation, testing and commissioning of a brand new 60 KVA (Prime) Diesel Generator set with Canopy & ATS as per following rate, terms and conditions.

Sl. No	Description of materials	Unit	Qty,	Unit Rate Tk.	Amount (Tk.)
	Supplying, Installation, Testing and Commissioning of one set brand new Diesel Generator set, Model : PS60 with Engine Model: 1103A-33TG2, Alternator Model : S1L2Y, 50Hz, Rated Prime 60KVA, Rated standby 66KVA, 3 Phase, 400/230 volts, 1500 rpm with Mechanical Governor System mounted on a common base frame complete with Batteries and Battery Cable, Battery charger, AVM pads, silencer, Flexible exhaust Tube, Water cooled radiator with blower fan, fuel injection pump, Turbo charger, vibration insulator mounting steel base frame to support radiator, Deep sea controller, Base Fuel Tank, control panel and a set of manual with Canopy & ATS and all standard accessories etc.				
1	Generator set	Set	1	8,60,000.00	8,60,000.00
2	ATS for 60KVA Generator	Set	1	40,000.00	40,000.00
3	Canopy for 60KVA Generator	Set	1	1,00,000.00	1,00,000.00
4	Silencer pipe	Rft.	23	1100	25,300.00
5	Ducting work	Sft.	72	237	17,064.00
6	Testing and commissioning				Included
Total Tk. (Including AIT)					10,42,364.00
VAT 7.5%					78,177.30
Grand Total Tk. (Including AIT & VAT)					11,20,541.30
Say Tk.					11,20,541.00

In word: Taka Eleven lac twenty thousand five hundred & forty one only.

Eastern Housing Limited

Corporate Office :

59-B, Kemal Ataturk Avenue, Banani, Dhaka-1213, Bangladesh, T:55033669
SMC Tower (Lift-8), 33, Banani Commercial Area, Dhaka-1213, T: 9822281

Registered Office :

Islam Chamber, 125/A, Motijheel C/A, Dhaka-1000, Bangladesh, T:9568734
www.easternhousing.com

Terms and Conditions :

- 1 Brand of Generator set : **Tempest**
- 2 Model of Generator set : **PS60**
- 3 Manufacture/Assemble : **UK**
- 4 Port of Shipment : **UK**
- 5 Brand of Engine: **Parkins, UK, Model : 1103A-33TG2**
- 6 Country of Manufacturing (Engine) : **UK**
- 7 Brand & Model of Alternator : **Stamford, UK, Model : S1L2Y**
- 8 Country of Manufacturing (Alternator) : **UK**
- 9 Noise level : **75dBA @ 3m**
- 10 Fuel Tank Capacity : **130 Liter (Built in with base)**
- 11 Delivery of Generator set will have to made within October 2020 and total works including ducting, exhaust system Testing and Commissioning to be done by after November 15, 2020 at 14, New Baily Road, Dhaka.
- 12 **Challan No & work order No. with date should be mentioned in submitted bill and a copy of work order & a copy of e-TIN certificate of your company will be submitted along with bill. If you fail to submit the copy of e-TIN certificate along with bill, AIT will be deducted 50% higher than usual rate as per Govt. circular.**
- 13 Original documents of Factory load test certificate and shipment documents of Genset must be from UK which will be submitted to EHL during delivery time.
- 14 **Payment mode :**
 - a) 10% of total amount will be paid in advance after issuing of work order.
 - b) 80% of total amount will be paid after commissioning of Generator set.
 - c) 10% of total amount will be paid after 30 days from the date of commissioning of Generator set.
- 15 AIT will be deducted as per Govt. circular from your bills.
- 16 VAT 7.5% will be deducted from your bills.
- 17 Free warranty of 12 month from the date of commissioning and handing over of the Generator set against manufacturing defect of the equipment, components including defects arising out of installation.
- 18 Two sets of electrical wiring diagram, part list book detailed technical specifications (Operational & Maintenance Manual) and data including components and accessories, in English language will be provided along with generator sets.
- 19 The technical specifications of Generator must confirm the requirements as the technical specification submitted along with your offer and above mentioned terms and conditions.
- 20 **Rejection:** If Brand & Model of Engine, Alternator & ATS and noise level of supplied Generator set does not meet with above mentioned Brand, Model & Noise level after verification/ checking by EHL's Engineer. Generator set will be rejected by EHL authority. Cross World Power Ltd. have to pay penalty to Eastern Housing Limited as per decision of EHL authority.



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- 21 **Penalty:** If Cross World Power Ltd. fails to complete the supply of Generator set as per approved Specifications. EHL will impose penalty after November 15, 2020 @ Tk 2000.00 per day to safe guard the interest of the EHL as per decision of EHL authority.

Above said penalty will not be imposed due to lack of readiness of work place at site.

- 22 EHL's Engineers will conduct factory visit for inspection of the generator set prior to delivery. You are to arrange transportation, loading, unloading setup and installation, provide us a layout plan of the total generating station.

- 23 **Contract person:** **Mr. Juel Uddin, (R.E)**, Cell Phone: 01712892140
Mr. Eklasur Rahman, (Sr. SAE), Cell Phone: 01711075427

Thanking you
Yours truly,



Engr. Dulal Chandra Sarker
EGM, (MPD, EHL)

CC :

- 1 Managing Director (EHL)
- 2 Director, EHL (Apt.)
- 3 GM, (MPD, EHL)
- 4 Project In-charge, 14, New Baily Road, Dhaka.
- 5 Accounts Section, EHL (Apt.)

CROSS WORLD POWER LIMITED
BOQ OF 1X60kVA GENERATOR

CLIENT - Eastern Housing Ltd

ADDRESS- Ramna .Dhaka .

DATE- 19/09/2020

SL NO	JOB DESCRIPTION	TECHNICAL DETAILS/ BRAND	SCOPE OF SUPPLY	UOM	QTY	UNIT RATE	TOTAL RATE	REMARKS
1	Electrical System:							
1.1	Power Cable (35 °C Ambient on air)	1C-25 rm NYY DG To ATS	CLIENT	Meter	184	304	55936	Quantity may vary upon the panel location as well as cable laying route.
		1C-25 rm NYY Mains To ATS			40	304	12160	
		1C-25 rm rm NYY ATS to Load			40	304	12160	
1.2	Power Cable Lugs	25 rm , Material -Copper , Surface -Electro Tinned		Pcs	25	18	450	
1.3	Control cable For Sensing	4 X 1.2 rm (40/0.19 mm)Flexible Cable (2XDG to ATS)		Meter	92	87	8004	
1.4	PVC Flexible pipe	3" dia		Meter	66	237	15642	
1.5	Saddle for flexible pipe	3.5" dia local		pcs	65	16	1040	
1.6	Royal Plug & Screw	1.5"		Pack	2	171	342	
1.7	PVC Tape	Adhesive Tape 04 color (Red/Yellow/Black/Blue)		Pcs	4	29	116	
1.8	Royal Bolt	10 no.		Pcs	10	18	180	
1.9	Cable Tie	L - 8"	Pack	2	138	276		
1.10	Power Cable Laying	1C-25rm NYY power cable	Meter	1	24	24		
2	Generator Earthing :							
2.1	Earthing Boring	120 rft	CLIENT	Job				ALREADY DONE
2.2	Earthing Copper Lead	2 SWG		Meter	46	419	19274	
2.3	GI Pipe (Boring)	38mm dia 120		Meter				
2.4	Earhting Block	Dimension LXWXD - 200mm X 30mm X 4mm with connection facility		Pc	1	1974	1974	
2.5	Earthing Cable	1 X 16 rm BYA (Green) from Earting Copper bar to gen & equipment		Meter	6	160	960	
2.6	Earthing Cable lugs	16 rm Material -Copper , Surface -Electro Tinned		Pcs	8	11	88	
3	Exhaust System:		CROSS WORLD					
3.1	Exhaust Silencer straight Pipe	MS Pipe bore 3" ,thickness 3-4mm		Meter	7	1726	12082	
3.2	Exhaust Bends /Elbow	Long radius 90 deg L bow 3"		Pcs	3	724	2172	
3.3	Exhaust Socket	Threaded 3"dia MS Socket		Pcs	3	592	1776	
3.4	Exhaust Heat Insulation with silencer box	Insulation Of Pipe with Glasswool (25.4mm min thickness) along with 26SWG Aluminium sheet clading.		Job	1	5600	5600	
3.5	Clump							
3.6	Exhaust Fitting with silencer box	All bracket , support must be made with MS angle 50X50X 4, 5 & 6 MM		Job	1	4370	4370	
4	Cooling System:							
4.1	Radiator Ducting	As per layout with 22 SWG MS sheet,Angle bar, flat bar support,Canvas cloth etc WXH=2.5'X2' L=15'	CROSS WORLD	Sq-ft	72	237	17064	
5	Comissioning Material:							
5.1	Radiator coolant	Havoline premix coolant	CLIENT	Liter	15	160	2400	
5.2	Lube oil	SAE 15 W 40		Liter	10	400	4000	
5.3	Battery electrolyte	Specific gravity 1250		Liter	10	90	900	
5.4	Diesel for test run	50% of tank capacity		Liter	60	75	4500	
6	DG On site delivery:							
6.1	Loading /Unloading/Lifting	Generator dry weight-2200 Kg	CROSS WORLD	Job	N/A			
7	Civil work							
7.1	Required DG base	Base dimension LXW(ft)=8'10"x3'10", Depth, D- 5" RCC with NCF.	CLIENT	job	1			

NOTES: All the necessary civil works and Diesel Fuel will be arranged by client with CWPL engineer instruction.