# SPACEZERO LTD

House 135, Road 4, Block A, Banani, Dhaka-1213, Phone-55035669-70,71,72

# Work Order

**Work Order No** : 13-8311 **Create Date** 12 November 2020

**Requisition No** 13-6621

**Project** Simpletree Kafil Manor

Supplier : Cross World Power Ltd.

House #NE (O) 06, Rd # 92, Gulshan-2, Dhaka-1212

Attention Mr. Sohel Uddin Bhuiyan 01755514780

Subject Work order against supply, installation, testing, commissioning of 200 KVA Diesel Generator Power

System In accordance with above subject & negotiation made with you regarding the subjected matter, **Body Title** 

we are pleased to issue the work order against supply, installation, testing, commissioning of Diesel

Generator power system

SL#	Item & Description	Qty.	Unit	Unit Price	Amount (Tk.)
1	Supply,Installation,Testing & Commissioning of 200 KVA Diesel Generator System (Description in Remarks,Excluding Vat & AIT)	1.00	Nos	3,002,297.00	3,002,297.00

AIT	Discount	Tax	VAT	Carrying Charge
0.00	0.00	0.00	0.00	0.00

**Grand Total:** 3,002,297.00

In Words Three Million Two Thousand Two Hundred Ninety-Seven Taka

Start Date 17 November 2020 , Completion Date 31 March 2021

Plot-31, Road-42,43, Block-CWN(A), Gulshan R/A, Dhaka. Contact Person-Mr. **Delivery Address** 

Mahbub-01708132302

**Delay Charge** N/A Warranty N/A

0% payment after0% completion. Dt:N/A.(1st Installment:(Tk.18,00,000) will be paid as **Payment Mode** 

advance. 2nd & Final Installment:(Tk. 1,202,297.00) will be paid after materials delivery at site.

NOTE: 100% Cash Payment )

Md. Shahriar Parvez (Deputy Manager) Approved

N.B : TDS will be deducted as per government rule.

This Work Order is electronically generated which is valid without signature.

### Remarks

### : Description:

Special Note: Cross World Power Ltd. has understood the design & drawing provided by Spacezero Ltd. Cross World Power Ltd. has visited the project and submitted offer accordingly which reconciled all the information. The complete package work of system is BDT. 30,02,297.00 Locked. This amount shall not be exceed upon any situation against all the specifications, quantity, design & drawing agreed by Cross World Power Ltd. & Spacezero Ltd. The quantity can vary up to  $\pm$ 10% except major equipment's will not having any impact on the total value.

- 1. Supply & Installation of 400 volt 3-phase,50Hz Floor mounted indoor type 200 KVA(Prime) diesel generating set with 8 hrs built in fuel tank,Local canopy,built in synchronized among 02 Nos set and suitable for tropicalised country like bangladesh in accordance with NEMA/LEC/VDE/JIS standards etc,all complete in all respect as per direction of the design consultant.
- a) 200 kva (prime) diesel generator (built in synchronized)-1 Set @ 2,175,000.00
- b) Local body type canopy for 200KVA genset-1 set @ 182,400.00
- 2) Auto transfer panel(ATS) with combination power unit-1set @ 280,100.00 supply & installation of 630A ATS panel with all other necessary accessories including voltmeter, selector switch, indicating lamp etc.
- 1c x 185rm NYY FRLS -130 mtr @265,394.00 (As per site required 130 mtr (DG-1 & DG-2 to ATS)
- a) Communication/control cable 1 lot @ 15854.00
- b) Earthing bar (CU)
- L 250 mm x W 50 mm 10 mm thickness

installed at wall with rubber bush, rowel bolt, nut, washer, cable connection with bard using cable lux-3 set @ 10,402.00

- c) Cable tray : construction material-proper painted galvanized sheet (with capsule hole, 4mm thick, threaded stick MS/GI for support with nut bolt. (Sheet SWG 11, 3mm)
- w x d -600 mm x 50 mm-10 mtr @28,049.00
- w x d -250 mm x 50mm-20 mtr @ 34,146.00
- 3. supply & installation of mechanical system(pipe ,duct & others)
- a) Exhaust louver: aluminium z Louvver @retaining wall flash-2 Nos @ 10,953.00
- 4. The details specifications, quantity and price distribution are attached as Annexure-I.
- 5. Technical catalogs are attached as Annexure-II.

## **TERMS & CONDITION:**

- 1.MATERIALS: All goods/services are to be supplied according to the description/specifications given in the work order, quotation or approved sample. No discrepancy is acceptable without our prior agreement/consent in writing.
- 2.PRICE: Prices agreed upon the company or in the quotation are final, no changes can be made at any cost.
- 3.DELIVERY: Delivery must be made within stipulated time and given delivery place.
- 4.INSPECTION: We reserve the right to inspect the goods to be supplied under this order but such as inspection does not relieve the suppliers of their responsibilities for defects in materials or quantity or workmanship or quality and for delivery of the goods in accordance with the specifications given. The supplier at their expenses shall remove goods rejected by the project Engineer/Incharge.
- 5.DEDUCTION: Any additional cost will be on supplier's accounts unless otherwise specified.
  6.TRANSIT RISK: the suppliers will bear full responsibility for carrying of materials and all costs and expenses shall be on account of the suppliers. Any damage to the goods in transit will be supplier's responsibility.
- 7.TERMINATION: Spacezero ltd reserves the right to reject the merchandise if the supplier failed to execute the contract within the stipulated time and as per specification. If the supplier fails to meet above terms and conditions Spacezero ltd. has every right to impose penalty against sole discretionary power of Spacezero Ltd management
- 8.Payment: 1st Instalment: (Tk.18,00,000) will be paid as advance. 2nd & Final Instalment: (Tk. 1,202,297.00) will be paid after materials delivery at site.

NOTE: 100% Cash Payment

Md. Shahriar Parvez (Deputy Manager) Approved

**N.B** : TDS will be deducted as per government rule.

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# Spacezero Limited

House # 135, Road # 04, Block # A, Banani, Dhaka

Project : Kofil Manor



Date : 20.10.20 Ref : CWPL-AM/4535/20F

					Ref : CWPL-AM/4535/2	OF
L NO	DESCRIPTION OF ITEMS	QTY	UNIT	UNIT PRICE (BDT)	TOTAL PRICE (BDT)	Remarks
1	DIESEL GENERATOR					
	Supply & installation of 400 Volt 3-phase, 50-Hz floor mounted indoor type diesel generating set with 8 hours built in fuel tank, foreign canopy, built-in synchronized among 02 nos set and suitable for tropicalised country like Bangladesh in accordance with NEMA/IEC/VDE/JIS standards etc. all complete in all respect as per direction of the Design Consultant.	22				
a)	200 KVA (prime) Diesel Generator (built-in synchrnized)	1	set	2,175,000	2,175,000	
b)	Local body type Canopy for 200KVA Genset	1	Set	182,400	182,400	
c)	Silencer exhaust will be taken to the ground floor outside (and will through into a water tank made of MS Sheet) with 50mm thickness rockwoll and galvanized jacketing; Engine Exhaust Pipe (40 SCH MS) with RESIDENTIAL TYPE SILENCER (Rockwool insulation & sheet jacketing); 01 set redidential type silencer for each DG set. Flange joint along with the DG set. Reducer, Elbow, etc. as required. Flexible Joint at each Silencer exhaust pipe. Horizontal & vertical length for each DG sets is around 10 meter from DG set to the riser.	20	Meter	5,827	116,548	Without residentinal box. Box will conside inside canopy
d)	Supply and installation of common exhaust duct by 14 SWG ( 2.032mm) galvanised sheet with heat (maximum around temperature 400 deg. celsius) resistance aproxy coating (inside) and outside 50mm Rockwool insulation plus 24 gauge Aluminium sheet cladding. Duct Size LXW- 600 mm X 325 mm.	49	meter	_ 11,639	570,302	
e)	Raditator Exhaust: Each Generator radiator exhaust will be taken to GF outside, length for each DG is around 10 meter. Radiator exhaust will be made of 22 gauge galvanized sheet. Size of Radiator will be as per manufacturer standard.	300	Sft	223	66,918	Ducting quantity revised as per site condition.
2	Installation, Testing & Commisssioning	1	Lot	49,966	49,966	
				Net Cost (BDT)	3,161,135	
		Total	Cost including	AIT Excluding VAT (BDT)	3,161,135	

CROSS WORLD POWER LIMITED BOQ OF 2X200kVA GENERATOR

CLIENT - SIMPLE TREE KAFIL MANOR ADDRESS ALTERNATOR MODE Tender Ref SCOPE OF UOM QTY REMARKS JOB DESCRIPTION TECHNICAL DETAILS/ BRAND SL NO Electrical System Dari (Cables & others)Cable sizes will be as per standard and cables must be lay with standard cable tray with proper dressing; route of cables must be as per consultant's guideline; all accessories must be included for cabling or cable tray installation works. Meter 130 1.1 Cable Brand: BRB Power Cable (DG1+DG-2 Sets to ATS Panel) 1c x 185rm NYY FRLS
Cable laying & termination of 185 rm Meter Cable Laying Charge 1.2 Power Cable Lugs
Control cable For Sensing
PVC Flexible pipe
PVC Tape
PIB Tape
Powel Belt 185 rm Material - Copper , Surface-Electro Tinned 4 X 1.2 rm (40/0.19 mm)Flexible Cable 1"Ø control cable Pcs Meter Meter Adhesive Tape 04 color (Red/Yellow/Black/Blue) Pcs Da-1 Royal Bolt Cable Tie Pack Meter 50 Communication Shield Cable 2X1.2rm for sync. Earthing System L X W X D- 600x600x600 mm with Brick, 100mm thick RCC slab with Nos. 2.1 Earth Inspection Pit 400mm CI manhole Earthing of electrical installation with 38 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 Job 2.2 Earthing Boring of 100' with GIP pipe to attain earth ressistance <1 ohm including blind socket for water pouring facility. N/A As per RFQ 38 mm (1.5") dia G.I. pipe Installation of solid cooper wire earthing lead 2 SWG in 50mm dia GI pipe & termination of connection at both end . 20mm dia water grade flexible pipe for copper lead wearing with Meter 2.3 GI Pipe Meter 2.4 Earthing Copper Lead Meter 2.5 PVC flexible Pipe Dai necessary fittings.

1X50 mm2 BYA(Green) from Earting Copper bar to gen & equipment for Meter 2.7 Earthing Cable 200kva (Appx) Earhting Block / Equipotential bar Dimension (LXWXD)mm - 300X50mmX10mm with connection facility Pcs 3 50 rm ,Material -Copper , Surface-Electro Tinned Pcs 12 2.8 Earth cable lugs Commissioning Material:
Radiator coolant
Lube oil
Battery electrolyte 5.1 5.2 5.3 5.4 50 40 Havoline Premix Coolent SAE 15 W 40 Specific gravity 1.250 For test run

Liter

Liter

Job

Job

eet(Appr

x) Pcs Pcs

Job

Job

Sq-ft

TOTAL FOR EXHAUS

Client

CWPL

CLIENT

20 (400

(2)

66

1

300

00-2

NOTE:
-- ALL NECESSAY CIVIL WORK WILL DONE BY CLIENT AS PER CWPL ENGINEER INSTRUCTION

Generator dry weight-2200Kg RCC FOUNDATION, DIM-

MS Pipe bore 5", thickness 3-4mm

along with 26SWG Aluminium sheet clading.

cloth etc . Ducting area- DXW-2'X5'; RFT-15'

LXWXD: 15'-0"X6'-6"X6"

TOTAL TK FOR 2 NOS DG SET INSTALLATION & COMMISSIOING

Long radius 90 deg L bow 5" bore Welding neck flange 5" dia Insulation Of Pipe with Rockwool/Glasswool (25.4mm min thickness)

All bracket, support must be made with MS angle 50X50X 4, 5 & 6 MM

As per layout with 22 SWG MS sheet, Angle bar, flat bar support, Canvas

5.4 Diesel
DG On site delivery:
6.1 Loading /Unloading/Lifting

Exhaust System:

Exhaust Bends /Elbow Exhaust Bends / Elbow with Flange

Exhaust Heat Insulation

Exhasut Fitting

Cooling System:

Radiator Ducting

6.2

3.1

3.3

3.4

4.1

DG FOUNDATION with canopy

Exhaust Silencer straight Pipe

# CROSS WORLD POWER LIMITED BOQ OF 2X200kVA GENERATOR CLIENT - SIMPLE TREE KAFIL MANOR

DRESS-

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																																				Tender Ref No.	GEN MODEL-
4.1	4	0.0	7 .	3.4	3.3	) i	3.1	0	6.2	6.1	6	5.4	5.3	5.1	5	2.8	2.6	2.7	2.5	2.4	2.3	2.2	2.1	2	10	1.9	1.8	1.6	1.5	1.3	1.2	1.1			1	ST NO	۳
Radiator Ducting	Cooling System:	EXILASOL FICUITS		Exhaust Heat Insulation	Exhaust Bends / Elbow with Flange	Expanst Boods (Elbon,	Exhaust Silencer straight Pipe		DG FOUNDATION with canopy	Loading / Unloading/Lifting	DG On site delivery:	Diesel	Battery electrolyte	Radiator coolant	Commissioning Material:	Earth cable lugs	Earhting Block / Equipotential bar	Earthing Cable	PVC flexible Pipe	Earthing Copper Lead	GI Pipe	Earthing Boring	Earth Inspection Pit	Earthing System	Communication Shield Cable	Cable Tie	Royal Bolt	PVC Tape PIB Tape	PVC Flexible pipe	Control cable For Sensing	Power Cable Lugs		Power Cable (35 °C Ambient on Air )		Electrical System:	JOB DESCRIPTION	
As per layout with 22 SWG MS sheet, Angle bar, flat bar support, Canvas cloth etc. Ducting area- DXW-2'X5'; RFT-15'		6 MM	thickness) along with 26SWG Aluminium sheet clading.  All bracket , support must be made with MS angle 50X50X 4, 5 &	Insulation Of Pipe with Rockwool/Glasswool (25.4mm min	Welding neck flange 5" dia	Topa radius 90 dog 1 how 5" horse	MS Pipe bore 5", thickness 3-4mm	TOTAL TK FOR 2 NOS DG SET INSTALLATION & COMMISSIOING	LXWXD: 15'-0"X6'-6"X6"	Generator dry weight-2200Kg		For test run	Specific gravity 1.250	SAF 15 W 40		50 rm ,Material -Copper , Surface-Electro Tinned	Dimension (LXWXD)mm - 300X50mmX10mm with connection facility	1X50 mm2 BYA(Green) from Earting Copper bar to gen & equipment for 200kva	20mm dia water grade flexible pipe for copper lead wearing with necessary fittings.	pipe & termination of connection at both end	38 mm (1.5") dia G.I. pipe	Earthing of electrical installation with 38 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 100° with GIP pipe to attain earth ressistance <1 ohm including blind socket for water pouring facility.	LX W X D- 600x600x600 mm with Brick, 100mm thick RCC slab with 400mm CI manhole	CHARLE IN THE SECTION OF SECTION	2X1.2rm for sync.  Cable laving & termination of 185 rm	L-8"/10"	10 no.	Adhesive Tape 04 color (Red/Yellow/Black/Blue)	1"Ø control cable	4 X 1.2 rm (40/0.19 mm)Flexible Cable	185 rm Material -Copper , Surface-Electro Tinned	4X1C -185rm NYY MAINS TO ATS	4X1C -185rm NYY DG To COMMON FEEDER for ATS	4X1C -185rm NYY DG To COMMON FEEDER for DG-01 4X1C -185rm NYY DG To COMMON FEEDER for DG-02		TECHNICAL DETAILS/ BRAND	ENGINE MODEL-
		TOTAL FO							CLIENT	CWPL		Client										Client														SCOPE OF	
Sq-ft		TOTAL FOR EXHAUST SYSTEM	5	dol	Pcs	ox)	Feet(Appr		Job	Job		Liter	Liter	Liter		Pcs	Pcs	(Appx)	Meter	Meter	Meter	Job	Nos.	101000	Meter	Pack	Pcs	Pcs	Meter	Meter	Pcs	Meter	Meter	Meter		MOU	ALTERNATOR MODEL-
300		SYSTEM		1	6	2	66		2	1		400	20	40	3	12	(3)	N/A				ь		100	130	4	20	16	50	50	32		TBA			QTY	OR MODE
223.06		10,232.00	10 757 00	23,896.40	592.00	1 250 00	1,375.00						90.00	331.25	100	34.25	3,467.40		1						118.00	158.00	18.00	461.00	26.00	87.00	132.00					UNIT RATE	-
66,918		138.401					90,200	46,703					1	13,250		411	1		,						15 340	632	360	922		1	4,224					TOTAL RATE	
Considered with summary sheet		Approved: 1 16 548 (20 RM @ 5827/-)						Approved: 49,966				For 2X200kVA					Considered with summary sheet , Inbuilt in DC					As per RFQ			Rate only				-	Rate only Inbritt in DQ 01			Considered with summary sheet			REMARKS	

CROSS WO	RLD POWER LIMITED					
CLIENT -Sin	nple Tree Kafil Manor	ADDRE	SS-	DATE: 28-01	-2020	
GEN MODE	iL-	ENGINE MODEL-		ALTERNATO	R MODEL-	
SL NO	JOB DESCRIPTION	TECHNICAL DETAILS/ BRAND	SCOPE OF SUPPLY	UOM	QTY	REMARKS
1	ATS	Powder Coated Metal Box <b>Wall Moundted Type</b> made with 16 SWG Sheet as consisting of provision for following items.  WXHXD - 600X1200X450 mm and consisting of provision for following items.	CWPL	No	1	
		630 Amps TP AC-3 Duty Magnetic Contactor Brand: SCHNEIDER	CWPL	No	2	
		AC Timer 220V 50 Hz	CWPL	No	2	
		AC Relay 220V 50 Hz	CWPL	No	1	
		6A TP MCB, Hyundai	CWPL	No	1	
		Indicating Lamp ( Red)	CWPL	No	2	
		630 Amps Copper Busbar with Connection Facility	CWPL	Meter	3	
		Connection Accessories	CWPL	Set	1	

То

# Spacezero Limited

House # 135, Road # 04, Block # A, Banani, Dhaka

Project : Kofil Manor



Date : 20.10.20 Ref : CWPL-AM/4535/20F

_	OF	Ref : CWPL-AM/4535/20								
	Remarks	TOTAL PRICE (BDT)	UNIT PRICE (BDT)	UNIT	QTY	DESCRIPTION OF ITEMS	L NO			
						DIESEL GENERATOR	1			
Y						Supply & installation of 400 Volt 3-phase, 50-Hz floor mounted indoor type diesel generating set with 8 hours built in fuel tank, foreign canopy, built-in synchronized among 02 nos set and suitable for tropicalised country like Bangladesh in accordance with NEMA/IEC/VDE/JIS standards etc. all complete in all respect as per direction of the Design Consultant.				
		2,175,000	2,175,000	set	1	200 KVA (prime) Diesel Generator (built-in synchrnized)	a)			
		182,400	182,400	Set	1	Local body type Canopy for 200KVA Genset	b)			
		280,100	280,100	set	1	Auto Transfer Panel (ATS) with Combination Power Unit	2			
						Supply & installation of 630A ATS Panel with all other necessary accessories inclluding voltmeter, selector switch, indicating lamp etc.				
	As per site required 130 m (DG-1 & DG-2 TO ATS)	265,394	2,041	Meter	130	1c x 185rm NYY FRLS				
Shi	· · · · · ·	15,854	15,854	Lot	1	Communication/Control Cable (50+50 =100 m)				
		10,402	3,467	set	3	Earthing Bar (CU) L 250mm x W 50mm- 10mm thickness; Installed at wall with rubber bush, Rowl Bolt, Nut, Washer; Cable connection with bar using Cable lux	b)			
	Sheet SWG=11SWG (3MM)					Cable Tray: Construction Material- proper painted Galvanized sheet (with capsule hole, 4mm thick; Threaded Stick MS/GI for Support with nut bolt.	c)			
		28,049	2,805	Meter	10	Size: W x D - 600 mm x 50mm;				
-	.*	34,146	1,707	Meter	20	Size: W x D - 250 mm x 50mm;				
	, a					Supply & installation of Mechanical System (Pipe, Duct & others)	3			
	Considering Galvanized sheet (3.5'x3.5')	10,953	5,477	Nos	2	Exhaust Louver (for 2 x 200 KVA) Aluminium Z-louver @ retaining wall flash	a)			
		3,002,297	Net Cost (BDT)							
		3,002,297	cluding VAT & AIT (BDT)	Total Cost Ex						