

Bank Asia LIMITED

LOGISTICS & SUPPORT SERVICES DIVISION (LSSD)

Work Order

Ref: BA/CO/LSSD/Proc.(Generator)/CapEx/2018/111

September 24, 2018

M/s. Cross-world Power Limited
Plot No.-1/B, Road No. 90, Gulshan-2
Dhaka-1212
Tel: 58816528, 9891442, Fax: 58816205
Web: www.cross-world.com;

Attn: Mr. Md. Ariful Islam, Manager-Sales; Cell: +88-01755514731

Sub: Work Order for Supply, Installation, Testing & Commissioning of 01 (One) Unit 400 KVA (Prime) Generator Set for 10-storied building with semi basement at Holding # 2, Sukrabad, Mirpur Road, Dhaka.

Dear Sir,

Please refer to your offer dated April 10, 2018 and subsequent further negotiation for supplying, installation and commissioning of 01 (One) generator set (detail below) for 10-storied building with semi basement at bank's own land Holding # 2, Sukrabad, Mirpur Road, Dhaka. We are pleased to inform you that Bank has accepted your offer and hereby has placed the Work Order for the above as per specifications, and terms & conditions mentioned below:


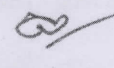
A. Abstract (Financial):

Sl.	Description of Items	Qty.	Unit Rate (Tk.)	Amount (Tk.)
01.	400 KVA (prime) Sound Attenuated Foreign Canopied Diesel Generator Set With foreign ATS	1 Set	44,60,645.00	44,60,645.00
02.	Making holes of any sizes for cable/pipe running, RCC/Brick work	4 Pcs	4,000.00	16,000.00
03.	Supply & installation of Power cable (4x1C400mm NYY DG to ATS)	25 Meter	4,890.00	1,22,250.00
04.	Cable ladder & laying system	6 Meter	1,700.00	10,200.00
05.	Earthing works as per specification of BOQ and Bank standard	3 Sets	51,000.00	1,53,000.00
06.	Earthing cable (1x50mm BYA green)	65 Meter	507.00	32,955.00
07.	Supply, fitting/fixing of Exhaust silencer straight pipe with insulation	40 Feet	2,490.00	99,600.00
08.	Radiator ducting	450 Sft	223.00	1,00,350.00
Grand Total: Supply, installation, testing & commissioning of 1 unit 400KVA Generator including VAT & AIT. Installation charge with Materials and Diesel.				49,95,000.00
In Words: Taka Forty Nine Lac Ninety Five Thousand Only.				

B. Scope of Works:

SL	Description	Vendor's Responsibility
01.	<ul style="list-style-type: none"> Supply, Installation, Testing and Commissioning of Genset After sale service of the Machine. 	Product and service to be delivered to: Bank Asia Limited, Holding # 2, Sukrabad, Mirpur Road, Dhaka Contact person: Mr. Md. Razu Miah, Project Director; Cell-01700-702485 Consultant: Mr. Ar. Selim Altaf Biplob, Senior Partner, In Quest Design Studio, House#5/12, Block#D, Lalmatia, Dhaka-1209; Consultant; Mobile: +8801713-038759.

1 | Page

Corporate Office : Rangs Tower, 68 Purana Paltan, Dhaka-1000, Bangladesh
 Tel : +88 02 47110062, +88 02 47110147, +88 02 47110173, Fax : +88 02 9577841
 e-mail : bankasia@bankasia-bd.com, Web : www.bankasia-bd.com

Bank Asia LIMITED

C. Technical Specifications:

Sl.	Description	Details	Specification
01.	Generator:		
		Brand	Tempest
		Model	PS400
		Country of Origin	UK
		Country of Manufacturer/Packers	UK
		Country of Shipment (as per B/L)	UK
		Starting System	24V Starter motor (DC)
		Prime Output KW	320
		Prime Output KVA	400
		Standby Output KW	352
		Standby Output KVA	440
		Fuel Tank Capacity	750 Liters
		Fuel Consumption per hour	62 L/H @ 75% load
		Net Weight	4200 KG
		Overall Dimension (mm)	LXWXH= 471X114X279 (cm)
		Speed, RPM	1500 RPM
		Efficiency	93%
		Ambient Temp	50°C
		Capability to run at a stress with full load	Unlimited hours of operation, no overload is permitted
02.	Engine:		
		Brand	Perkins
		Model	2206A-E13TAG3
		Rated voltage	400/230 volts
		Country of Origin	UK
		Cooling/ Starting Method	Water cooled (Radiator cooled with engine driven fan)
03.	Alternator:		
		Brand	Stamford
		Model	HCI444F / S41LDF
		Origin	UK
		Rated voltage	400/230 volts
		Frequency	50Hz
04.	ATS	Foreign	Foreign
05.	Canopy	Foreign	Foreign
06.	Sound Level	75 dBA @ 7 meter distance	Not more than 67dBA(A) at 7 meters
07.	Warranty		1 (one) year for Engine and Alternator from the day of Commissioning.
08.	Service Centre	Nearest to the site	249-251 Tejgaon I/A, Dhaka Contact person: Mr. Nabi; Cell: 01755514790

Control System: Control System is incorporated with manual/ automatic set to manually & automatically start & stop the generator indicating the operation status and fault conditions.

D. Installation Materials and Diesel: Power Cable: Installation materials including power cable, earth cable, cable laying, (for electricity connectivity among Generator to ATS, MDB to ATS and ATS to SDB) PVC Pipe, Diesel: full tank gasoline will provide by vendor.

E. EARTHING: Earthing the electrical installation with 38.10mm (1.5") dia G.I. Pipe (earth electrode) having 6.35mm dia holes across the dia at 305mm interval securely bonded with 2 SWG HDDB earth lead with washer, nuts, bolts etc. sunk up to under mentioned depth and protection of earth lead by 12.7mm (½") dia G.I. pipe up to plinth level run at a depth of 609.6mm (2ft.) below G.L. up to main board to be earthed including necessary connecting copper sockets, bolts, nuts, including additional vertical run of 12.7mm dia G.I. pipe up to G.L. from 609.6mm (2') depth with blind socket for water pouring facility etc. complete for maintaining earth resistance within 1 ohm and as per direction of the Engineer-in-charge.

1. Earthing the electrical installation with 38.10mm (1.5") dia G.I. Pipe (earth electrode) having 6.35mm dia holes across the dia at 305mm interval securedly bonded with 2 SWG HDDB earth lead with washer, nuts, bolts etc. sunk up to under mentioned depth and protection of earth lead by 12.7mm (½") dia G.I. pipe up to plinth level run at a depth of 609.6mm (2ft.) below G.L. up to main board to be earthed including necessary connecting copper sockets, bolts, nuts, including additional vertical run of 12.7mm dia G.I. pipe up to G.L. from 609.6mm (2') depth with blind socket for water pouring facility etc. complete for maintaining earth resistance within 1 ohm and as per direction of the Engineer-in-charge. (Depth of bottom of main electrode at 31242 mm. (102.5 ft) from GL & length of electrode 30480 mm. (100 ft).
2. Construction of Earthing inspection pit inside measurement 600 mm x 600 mm with 250 mm thick brick in cement mortar (1:4) with 100mm thick RCC top slab (1:2:4) with 1% re-enforcement 450 mm dia water sealed CI man-hole cover with locking arrangement including necessary earth works, site filling and one brick flat soling 75 mm thick (1:3:6) base concrete for making inlet channel & 12mm thick (1:2) cement plaster with neat finishing etc. all complete up to a depth of .75 meter.

F. Terms & Conditions:

01. Delivery, installation, testing & commissioning : **Date & Time:** All the deliverables shall be made at the site within 8 weeks after receiving the work order.
Work Completion: Shall be made at the site within 120 (One Hundred Twenty) days.
Consultant: Total installation and commissioning job will be executed under supervision of consultant Inquest Design Studio. Any kind of problem/issue(s) arise at the time of installation; Cross World is advised to resolve the issues(s) with the coordination of consultant.
02. Delivery : Cross World Power Ltd. shall take the entire responsibility of supply, installation and commissioning. No other third party will be engaged in this job.
03. Warranty : The offered Engine and Alternator is warranted for a period of 1 year from the date of dispatch or 3600 hours for the date of operation from the date of commissioning whichever is later against any manufacturing defect /defective materials only.
04. Service Support : Service Support (In warranty period): Response time within 4 (four) hour. However, the problem should be identified and rectified within 24 hours maximum. If any additional time required Bank authority should be informed beforehand.
05. Responsibility : From commencement to completion of work Cross World shall be solely and wholly responsible for any damage to property, loss of life or any other damage or accident and the owners shall bear absolutely no responsibility, in case such incidents occur.
06. Safety measure :
 - Prior to commencement of any work, Cross World shall assess and shall take the safety measure as per requirement of the site.
 - Cross World shall strictly follow the rules enacted by the Government of Bangladesh regarding health, safety and environment and treatment of the personnel and staff of the contractor's due to any reason including accidents shall be completely contractor's responsibility.
 - Cross World shall supply all tools including safety device like helmets, shoes etc.
07. Personnel information : Cross World Power Ltd. shall have to submit list of Manpower/Technician/Engineers to be engaged at project site with their identity card to the Branch authority before start of work.
08. Finish: : The generator set and control panel would be finished in bright color paint.
09. Handbooks: : The equipment would be supplied with one set of hand books.
10. Vibration & Smoke Level: : Post Installation Vibration should be zero and additional rubber pad have to be provided. Smoke level has to be environmental friendly.
11. Mode of Payment : Payment shall be made in the form of Payment Order in your favour as per following schedule:
 - 20% of work order value : After opening of L/C
 - 40% of work order value : After delivery of equipments at site
 - 30% of work order value : After successful installation, testing and commissioning.
 - Balance 10% of work order value will be kept as security money which will be released after 12 (twelve) months from the date of handover.
12. Submission of Bill : Bill should be submitted along with the related documents and the work completion certificate (up to supply, installation, testing and commissioning) for payment.

Bank Asia LIMITED

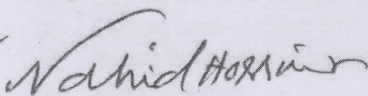
13. Deductions : VAT, Income Tax & other Govt. Taxes (if applicable) will be deducted from the bill as per rule.
14. Liquidity Damage : In the event of any delay in completion of the system or any misshapenness during the work at the site that is caused solely by Contractor, excluding delays caused by circumstances outside contractor's reasonable control, Purchaser may asses against Contractor liquidated damage (LD). Such LD shall include the losses suffered by other Contractor working at site.
15. Submission of Documents : All shipping documents attested by L/C opening bank shall be submitted immediate after delivery of the Genset at site.
16. Special Conditions : a. The Bank reserves the right to impose penalty or not to take the goods for any type of discrepancy in the product.
b. The vendor agrees to indemnify, defend and hold responsibilities from and against loss of Bank's assets and valuables. Any claim, action, proceeding, damage, liability, fine, penalty, cost, and expenses (including, without limitation, the reasonable fees and expenses of repairing) arising out of its act, omission or negligence under this agreement.
c. The quality of product is to be maintained as desired standard.
d. For any type of sub-standard quality found from your end, the Bank reserves the right for outright rejection of the goods, which, you will take back at your own cost and will replace with acceptable quality within fifteen days of the rejection time.
e. This price includes carrying cost, manual labor charge and any kind of charge thereof.
f. Bank can ask or request to submit all the relevant documents related with production and import for further clarification and settlement of the bill.
g. Cross World shall have to provide necessary training as and when required to the people involved with the works of Bank Asia Limited.

Bank has the right to cancel the work order any time for the non-compliance of any terms and conditions mentioned above.

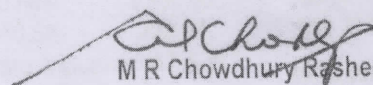
You are, therefore, requested to ensure the supply of the above item as per specifications/standard and terms & conditions mentioned above within stipulated time.

Please sign a "Photocopy Copy or Scanned Copy" of this work order, if you agree to the terms & conditions, and return the same for our records or send us an email against the work order, as an acknowledgement of receipt of the work order.

Yours Sincerely,



Md. Nahid Hossain
AVP & Executive Engineer



M R Chowdhury Rashed
Vice President & Head of LSSD

Signed and accepted

Signature of Contractor

Copy to:

1. Mr. Ar. Selim Altaf Biplob, Senior Partner, In Quest Design Studio, House# 5/12, Block# D, Lalmatia, Dhaka-1209- for necessary co-operation and action please.
2. The Head of Accounts Department, Corporate Office, Bank Asia Limited.

4 | P a g e