



# Impulse Health Services & Research Centre Ltd.

Registered Office: 304/E, Tejgaon Industrial Area, Dhaka-1208  
Main/Head Office: 1/9, Iqbal Road, Block-A, Mohammadpur, Dhaka-1207  
Phone: 01713006607, 01714074027 E-mail: impulsealamin@yahoo.com  
Web: www.impulsebd.org

## TECHNICAL OFFER

Impulse Health Services & Research Centre  
304/E, Tejgaon I/A, Dhaka-1208.

DATE : Jun 13, 2016  
REF : CWPL-AM/1117/16-R02F

### Generator Details:

Tempest (Manufactured by Allam Marine Limited, UK) Diesel Generating Set Model: PM650 (650KVA Prime & 710 KVA Standby) at 1500 rpm, 50 Hz, 3 phase, 4 wire, 400/230 volts at 0.8 power factor. All other details are as follows:

BRAND : Tempest	MODEL : PM650
COUNTRY OF ORIGIN : UK	PORT OF SHIPMENT: Any port, UK
CAPACITY (Prime) : 650 KVA	CAPACITY (stand by): 710 KVA
START SYSTEM : Automatic Microcontroller based as well manual Start / Stop System	
EMERGENCY STOP : Emergency Stop available as protection device	
VIBRATION SKID : Built-in vibration skid for smooth operation	
BATTERY CHARGER : Auto Battery Charger (ABC) included	
DIMENSION (Open Set) (cm) : 340X154X227 (LxWxH)	FUEL TANK CAPACITY : 1080 Liter
FUEL CONSUMPTION : 97.00 Ltr./Hr. at 75% Load	

### Engine Details:

BRAND/ORIGIN : Perkins, UK / USA	MODEL : 2806A-E18TAG2
SPEED : 1500 RPM	INDUCTION SYSTEM : Turbocharged
ENGINE TYPE : 4 stroke multi cylinder industrial diesel Engine suitable for tropical environment	
COOLING SYSTEM : Water cooled (Radiator cooled with engine driven fan)	
PROTECTION : Over speed, under speed, oil pressure, Over heating etc	
FUEL TANK : Built in with base	

All other details are as per attached Engine catalogues.



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## Alternator Details :

Industrial brushless AC Alternator model all other details are as follows:

BRAND/ORIGIN : Mecc Alte, UK	Model / Frequency : ECO40-2L , 50 Hz
PHASE : 3 Phase	Output (Volts) : 400/415 volts (Line to line)
COOLING : Air cooling	Insulation Type : Class " H "
PROTECTION : Industrial brushless design screen protected, fan ventilated, drip-proof, self exciting in accordance with IP21/IP23	
VOLTAGE REGULATOR : Automatic Voltage Regulator (AVR)	
VOLTAGE REGULATION : $\pm 1\%$ / $\pm 1.5\%$ power factor between 0.8 lagging & unity	

Alternator model may vary with the attached catalogues for manufacturing innovation.

## Control Module:

The Deep Sea Electronics (DSE), UK control system (DSE8610) or Equivalent is an easy to use multi-generator loadshare system, designed to synchronise up to 32 generators including electronic and non-electronic engines. The DSE8610 monitors the generator and indicates operational status and fault conditions, Automatically starting or stopping the engine on load demand or fault condition.

CONTROL MODULE TYPE	: Auto start (AMF) digital control module
OPERATION	: Operation of the module is via push buttons mounted on the front panel with STOP, AUTO and MANUAL positions etc
DIGITAL INSTRUMENTS	: Ammeter, Voltmeter, Frequency meter, run hour meter, Oil Pressure, Water Temperature etc.
ALARM INDICATOR	: Under/Over Volts, Under/over speed, Under/Over Frequency, Low Oil Pressure, High Engine Temperature, Fail to Start and Loss of speed sensing etc.
LOAD TRANSFER TIME	: Adjustable, Delay on start 1 to 25 sec, Delay on transfer 1 to 70 sec
ENGINE COOLING TIME	: 5 minutes maximum
PHASE FAILURE RELAY	: Digital option & control for Main's upper lower cut off voltage setting and adjustable hysteresis voltage, sensing option etc

All other details are as per attached Allam's/DSE Catalogue



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## **Standard Items:**

The following items will be supplied with the gen-set as standard:

- (i) Lead Acid Battery 12/ 24 Volts as required
- (ii) Silencer
- (iii) Rubber anti vibration mountings
- (iv) Flexible Bellows
- (v) Battery charger
- (vi) Main Line 3 pole Circuit Breaker
- (vii) Alternator mounted deep sea UK original main controlling panel
- (viii) Fuel tank for 10 hours operation
- (ix) Operational manual & keys etc.

Please note that toolbox is beyond this scope of supply.

## **Warranty/Guarantee:**

As per standard of manufacturer, we provide 1500 hours or One & half years comprehensive part & labour warranty whichever is more, effective from the date of delivery and commissioning at the client's premises. Our warranty policy is for any manufacturing defects or any premature wear & tear due to usage. The faulty part(s) is/are replaced/repared within the warranty period. However, Warranty doesn't cover improper maintenance by the user, consumable items, servicing by unauthorized person, running the genset above its capacity or any unauthorized modification of the genset. First year servicing will be done free of cost by the company. After that from year one and half to five years, comprehensive servicing will be done by the company at a cost of tk. 4000/visit/generator with 3 servicing year.

All the parts of the generator should be rendered available at Dhaka, so that in case of breakage, replacement can be done without delay in the same day.

## **Installation & Commissioning:**

The price quoted here includes Installation & Commissioning charge provided the genset is installed in Basement or at Ground Floor level within Dhaka City.

Cross World Group Service Engineers will supervise all the above mentioned works. Please call Engr. Md. Mahabub Hasan, Mob. 01755-514719 for your Installation Materials list or Commissioning, or for any Emergency Service please call Engr. Tanvir Hossain, Mob. 01755-514820





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## **Spare parts, After Sales Service AMC:**

We maintain sufficient stock of spare parts to meet regular demands of our valued clients. Our service engineers are always kept ready 24x7 to attend emergency services to ensure uninterrupted power of the gen-sets. On-call service is also available to attend any types of emergencies.

## **Training:**

We will provide training to your operator of the Generating set after completion of commissioning.



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## FINANCIAL OFFER

Impulse Health Services & Research Centre Ltd  
304/E, Tejgaon I/A, Dhaka-1208.

DATE : Jun 13, 2016  
REF : CWPL-AM/1117/16-R02F

### FINANCIAL OFFER FOR SUPPLY OF 650 KVA 3 PHASE HEAVY DUTY DIESEL GENERATING SETS.

Dear Sir,

We are pleased to submit our financial offer with reference to our technical offer# CWPL-AM/1117/16-R02T dated Jun 13, 2016 :

#### 1. Price:

SL #	Product Name	Unit	Price (GBP)	Qty.	Total Price(GBP)
1)	TEMPEST Brand 650 KVA (Prime) Rating Diesel Generator with Perkins engine and Mecc-Alte alternator, plant mounted synchronizing panel	Set	43,000.00	2.00	86,000.00
	BRAND : Tempest				
	ENGINE : Perkins, UK / USA				
	ALTERNATOR : Mecc Alte, UK				
	CONTROL MODULE : Deepsea, UK				
	PORT OF SHIPMENT : Thames port, UK				

Total Cost and Freight (CTG) in GBP 86,000.00

**GRAND TOTAL in GBP 86,000.00**

Amount in words : GBP Eighty-Six Thousand Only.



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**2. PAYMENT TERMS:** 100% payment to be made through irrevocable confirmed L/C to be opened in favour of Allam Marine Limited, Wyke Way, Melton, Hull, HU14 3BQ, England

**3. PACKING:** Export friendly 'Shrink Wrap' packing

**4. SHIPMENT:** 10 to 12 Weeks.

**5. VALIDITY:** This offer is valid for 30 days from the date.

**6. COMPLETION OF THE WORK:** Installation Commissioning and testing of the genset would be completed within 3 (three) working days from the date of delivery, provided the site and commissioning materials made ready by the client.

**7. INSTALLATION AND COMMISSIONING CHARGE:** Free of Cost Without Materials.

We hope the above offer is acceptable to you and we look forward to your valued work order in our favour. Should you require further information or discussion, please feel free to contact the undersigned.



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## FINANCIAL OFFER

Impulse Health Services & Research Centre Ltd  
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DATE : Jun 13, 2016  
REF : CWPL-AM/1629/16F

### FINANCIAL OFFER FOR SUPPLY OF LOCAL CANOPY & COMMON PANEL SETS.

Dear Sir,

We are pleased to submit our financial offer with reference to our technical offer # CWPL-AM/1629/16T dated Jun 13, 2016 :

#### 1. Price:

SL #	Product Name	Unit	Price (BDT)	Qty.	Total Price(BDT)
1)	Local Canopy for 650 KVA Genset	Pcs.	400,000.00	2.00	800,000.00
2)	Common Panel	Set	550,000.00	1.00	550,000.00

Total Price (Ready Stock) in BDT **1,350,000.00**

GRAND TOTAL in BDT 1,350,000.00

Amount in words : BDT One Million Three Hundred and Fifty Thousand Only.



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- 2. PAYMENT TERMS:** a) 10% at the time of work order.  
b) Rest after installation & commissioning.
- 3. DELIVERY:** at the time of arrival of the generator.
- 4. VALIDITY:** This offer is valid for 30 days from the date.

We hope the above offer is acceptable to you and we look forward to your valued work order in our favour. Should you require further information or discussion, please feel free to contact the undersigned.

Impulse Health Services  
& Research Centre Ltd.

Managing Director

*[Signature]* 15/06/2016