Generator Package Proposal

Presented to

Mr Matthew Harris

Of

Harrisinfra

Proposal for supply of Diesel Generator

Project: The Astley Manchester

Date: 10th December 2025

Prepared by: Richard Dean

Our Reference: 022380.7

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Section 1 Commercial Proposal

1.1 Scope of Proposal
1.2 Pricing Schedule

1.1 Scope of Proposal

Further to your enquiry concerning the generating set requirements for The Astley Manchester. We now resubmit our proposal for 1 x KD165 – 165 kVA 400V 50Hz Standby Rated diesel generating set for your consideration.

Scope of Works

- Supply 1 x KD165, 165 kVA 400V 50Hz Standby rated generating set complete with set mounted APM403S control system.
- Generator now to be installed in existing plantroom with inlet and discharge attenuation and exhaust system as described within.
- SWA Cable Link Box.
- 689 Litre bunded base fuel tank.
- Site Services.
- Commissioning.

Should any of the details contained within require clarification, modification, or additional information, please do not hesitate to contact us directly and we will be happy to review and provide alternative solutions for you.

We look forward to receiving your further instructions in due course.

Yours faithfully

Richard Dean
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1.2 Pricing Schedule

Qty	Description		Total Cost £
1	KD165, 165 kVA 400V 50Hz Open Standby rated generating set utilising the APM403S control system, c/w local manual set breaker and c/w 689 Litre bunded base fuel tank fitted with a fusible link and fire valve. Set now to be installed within an existing plantroom. Set fitted with fuel filling kit and fuel spill kit.		
1	Plant room inlet and discharge attenuation and exhaust system as described within including st/st exhaust flue extension.		
1	Site Services which include: Deliver off load and position.		
1	Commissioning.		
		Total	**£92,220.00**

Options:

	Description.	Total Cost
A	Hire of resistive load bank for site test 2 days.	£2,370.00
B	First fill of HVO fuel to base tank 689 Litres.	£1,364.00
C	Fuel fill point cabinet and fill pipework system as described within section 2.3.2.	£18,750.00

All prices are subject to VAT at standard rate.

The price shown is based on a 1.13 £ v Euro exchange rate. A variation of more than 3% will lead to a price adjustment. This price does not include any import tariffs which may be applicable at the time of product importation.

All fuel prices quoted are based on current rates. Due to constant fluctuations all fuel prices are subject to change and require confirmation at time of order placement.

Section 2 Technical Information

2.1 Proposed Generator & Control System Specification
2.2 Acoustic Solution
2.3 Fuel system
2.4 Site Services
2.5 Options
2.6 Comments on Specification

2.1 Proposed Generator Specification

2.1.1 Generator

For this project we propose the use of an open KD165 Set. Set now to be housed in an existing plant room.

Set will include the following:

- Alternator Anti-Condensation Heater.
- APM 403S auto mains failure control panel c/w contacts pack.
- Set Mounted 4-pole, Manual Schneider Output Circuit Breaker for set.
- SWA Cable connection link box.
- Fuel Filling kit.
- Fuel spill kit.
- 689 Litre bunded base fuel tank.
- Fusible link released fire valve assembly.

Industrial Diesel Generator Set – KD165
50 Hz



Ratings Range

		400/230 V - 50 Hz
Standby	**kW**	132
	kVA	165
Prime	**kW**	120
	kVA	150

Benefits and features

Rehlko premium quality
- Design offices using the latest technical innovations
- Modern fully certified factories
- A cutting edge laboratory
- The generating set, its components and a wide range of options have been fully developed, prototype tested, factory built, and production tested
- Approved for use with HVO (Hydrotreated Vegetable Oil) according to EN15940

Rehlko premium performances
- Optimized and certified sound levels
- Reliable power, even in extreme conditions
- Optimized fuel consumption
- Compact footprint
- Best quality of electricity, high starting and loading capacity, according to ISO8528-5
- Robust base frames and high-quality enclosures
- Protection of installations and people
- Approved in line with the most stringent standards

Engines
- Rehlko Premium level engines
- High power density, small footprint
- Low temperature starting capability
- Long maintenance interval

Alternator
- Provide industry leading motor starting capability
- Built with a class H insulation and IP23

Cooling
- A compact and complete solution using a mechanically driven radiator fan
- Designed or optimized by Rehlko
- High temperature and altitude product capacity available

Base frame and enclosure
- High quality steel with enhanced corrosion resistance
- Highly durable QUALICOAT-certified epoxy paint
- Minimum 1500 hours of resistance to salt spray in accordance with ISO12944
- Ergonomic access to allow easy maintenance and connection of the generator
- Robust design optimized for transportation

Generator sets ratings

		Standby rating			Prime rating	
	Hz	kWe	kVA	Amps	kWe	kVA
400/230	50	132	165	238	120	150
230 TRI	50	132	165	414	120	150
380/220	50	132	165	251	120	150
415/240	50	132	165	230	120	150
240 TRI	50	132	165	397	120	150

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Industrial Diesel Generator Set – KD165
50 Hz

General Specifications

Manufacturer	Rehlko
Engine ref.	KD59L06T-AA56
Alternator choices	KH01191T
Performance class	G3
Voltage (V)	400/230 230 TRI 380/220 415/240 240 TRI
Controllers	APM303 APM403
Consumption @ 100% load ESP (L/h)*	39
Consumption @ 100% load PRP (L/h)*	36
Emission level	Not certified
Type of Cooling	Radiator
Factory installed enclosures	M148 M148-DW M148-DW48

"* Volumetric Fuel consumption is up to 4% higher when using HVO than Diesel Fuel"

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Industrial Diesel Generator Set – KD165
50 Hz

Engine Specifications	
Engine brand	REHLKO
Engine ref.	KD59L06T-AA56*
Air inlet system	Turbo
Cylinder configuration	6 - L
Displacement (l)	5,88
Bore (mm) x Stroke (mm)	102 x 120
Compression ratio	17.3:1
Speed 50Hz (RPM)	1500
Maximum stand-by power at rated RPM (kW)	155
Governor type	Electronic
Frequency regulation, steady state (%)	5

Lubrication System	
Oil Filter Quantity and type****	Spin On / 1
Charge Air coolant	Air/Air

*****Rehlko recommends the use of genuine oil and filters.*

Fuel System	
Maximum fuel pump flow (l/h)	62
Fuel filter: Qty, type	1 / 1 Primary Engine Filter / Fuel Water Separator
Fuel	Diesel Fuel

* Engine reference may be partially modified depending on genset application, options selected by the customer and lead time required.

Consumption with cooling system	
Fuel consumption @ ESP Max Power (gal/hr)	10,8
Fuel consumption @ PRP Max Power (gal/hr)	9,8
Fuel consumption @ 75% of PRP Power (gal/hr)	6,6
Fuel consumption @ 50% of PRP Power (gal/hr)	4,5

Cooling system	
Radiator & Engine capacity (l)	27,8
Fan power 50Hz (kW)	4,65
Fan air flow w/o restriction (cfm)	3814
Available restriction on air flow (in. H2O)	0
Type of coolant	Glycol-Ethylene
Radiated heat to ambiant (kW)	17
Heat rejection to coolant HT (kW)	62
Coolant capacity HT, engine only (l)	10
Max coolant temperature, Shutdown (°C)	104
Thermostat begin of opening HT (°C)	82
Thermostat end of opening HT (°C)	95

Exhaust system	
Exhaust gas temperature @ ESP (°C)	573
Exhaust gas flow @ ESP (l/s)	517
Electrical system	
Battery voltage (V)	12
Air Intake system	
Combustion air flow (l/s)	195
Radiated heat to ambiant (kW)	17

Alternator Specifications	
Number of pole	4
Technology	Brushless
AVR Regulation	Yes
Insulation class	H
Indication of protection	IP23
Number of bearing	1
Number of wires	06
Coupling	Direct
Overspeed (rpm)	2250
Voltage regulation at established rating (+/- %)	0,5
Unbalanced load acceptance ratio (%)	8

Alternator standard features

- All models are brushless, rotating-field alternators
- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting
- The AVR voltage regulator provides superior short circuit capability
- Self-ventilated and dip proof constructio
- Superior voltage waveform

Note: See Alternator Data Sheets for alternator application data and ratings, efficiency curves, voltage dip with motor starting curves, and short circuit decrement curves.

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Industrial Diesel Generator Set – KD165
50 Hz



APM303 controller
The APM303 is a versatile unit which can be operated in manual or automatic mode. It offers the following features:

- Measurements: phase-to-neutral and phase-to-phase voltages, fuel level (In option : active power currents, effective power, power factors, Kw/h energy meter, oil pressure and coolant temperature levels)
- Supervision: Modbus RTU communication on RS485
- Reports: (In option : 2 configurable reports)
- Safety features: Overspeed, oil pressure, coolant temperatures, minimum and maximum voltage, minimum and maximum frequency (Maximum active power P<66kVA)
- Traceability: Stack of 12 stored events

For further information, please refer to the data sheet for the APM303



APM403 controller
The APM403 is a versatile control unit which allows operation in manual or automatic mode

- Measurements : voltage and current
- kW/kWh/kVA power meters
- Standard specifications: Voltmeter, Frequency meter.
- Optional : Battery ammeter.
- J1939 CAN ECU engine control
- Alarms and faults: Oil pressure, Coolant temperature, Overspeed, Start-up failure, alternator min/max, Emergency stop button.
- Engine parameters: Fuel level, hour counter, battery voltage.
- Optional (standard at 24V): Oil pressure, water temperature.
- Event log/ Management of the last 300 genset events.
- Mains and genset protection
- Clock management
- USB connections, USB Host and PC,
- Communications : RS485 INTERFACE
- ModBUS protocol /SNMP
- Optional : Ethernet, GPRS, remote control, 3G, 4G
- Websupervisor, SMS, E-mails

Codes and Standards

Engine-generators set is designed and manufactured in facilities certified to standards ISO9001:2015 & ISO14001:2015. The generator sets and its components are prototype-tested, factory built and production tested and are in compliance with the relevant standards:

- Machinery Directive 2006/42/EC of May 17th 2006
- EMC Directive2014/30/UE
- Safety objectives set out in the Low Voltage Directive 2014/35/UE
- EN ISO 8528-13, EN 60034-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 55011, EN 1679-1 et EN 60204-1

Power ratings definition according to ISO8528-1 (2018-02 edition) and ISO-3046-1

Emergency Standby Power (ESP): The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Average load factor per 24 hours of operation is <70%.
Prime Power (PRP): At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour within 12 hour of operation. Average load factor per 24 hours of operation is <70%.

Warranty informations

Standard warranty period:

- for Products in "back-up" service
  - 18 months from the date the Product leaves the plant
  - 12 months from the Product's commissioning date
  - 500 running hours

The warranty expires when one of the above conditions is met.

- for Products in "prime" or "continuous" service (continuous supply of electricity, either in the absence of any normal electricity grid or to complement the grid),
  - 18 months from the date the Product leaves the plant
  - 12 months from the Product's commissioning date
  - 2,500 running hours

The warranty expires when one of the above conditions is met.
For more details regarding conditions of application and scope of the warranty please refer to our General "terms & conditions of sales".

Standard scope of supply:

All our open gensets are fitted with:

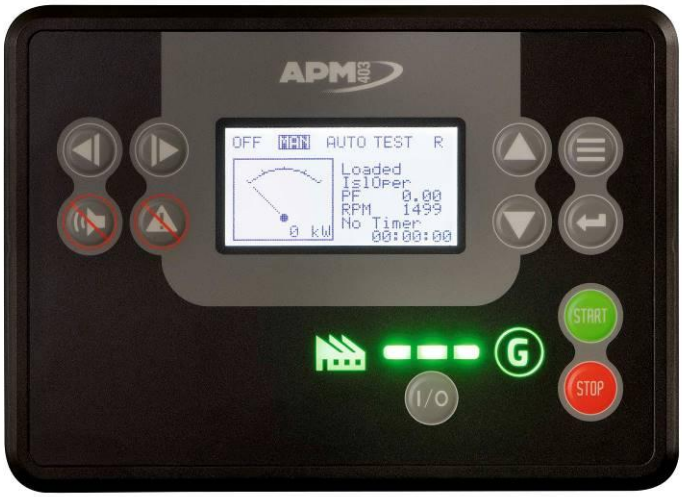
- Industrial water-cooled DIESEL engine
- Engine electronic governor
- Electric starter & charge alternator
- Battery(1)
- Standard air filter
- Electric circuit breaker, adapted to the short-circuit current of the generating set
- Single bearing alternator IP 23 T° rise/ insulation to class H/H
- Welded steel base frame with 85% vibration attenuation mounts
- frame height optimized to allow it to be moved safely by forklift
- enclosure made of new high-quality European steel with enhanced corrosion resistance
- enclosures and base frames tested and analyzed by the French Corrosion Institut
- 100% of tanks tested for permeability
- Personal protection ensured by protective grilles on hot and rotating parts
- Separate 9 dB(A) silencer
- Fuel tank welded inside the genset frame
- Retention bund included for gensets up to 250 kVA ESP
- Emergency stop button on the outside
- Flexible fuel lines & lub oil drain cock
- Oil(2) and antifreeze liquid(2)
- Exhaust outlet with flexible and flanges
- User's manual (1 copy)
- Packing under plastic film

APM403 CONTROL UNIT

Automatic APM403 starting console fitted to frame of generating set and including:

1.1. On the front

1.1.1. Alphanumeric screen for displaying:



1.1.1.1. Genset's operation mode and status



1.1.1.2. Electrical values

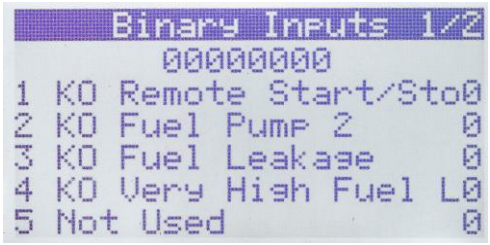
- ✓ Three line voltages
- ✓ Three phase voltages
- ✓ Three phase currents
- ✓ Frequency
- ✓ Power levels
- ✓ Cos PHY

1.1.1.3. Engine parameters

- ✓ The load (%)
- ✓ Starter battery voltages
- ✓ Engine speed in revs/min
- ✓ Coolant temperature (°C)
- ✓ Oil pressure in Bar
- ✓ The current consumption
- ✓ The air intake temperature (°C)
- ✓ The turbo pressure (bar)

1.1.1.1. Status of the binary inputs/outputs

- ✓ Status of the binary inputs configured for the application
- ✓ Status of the binary outputs configured for the application



1.1.1.4. Operating statistics

- ✓ Operating time number of hours
- ✓ KW supply
- ✓ Number of start-ups
- ✓ Number of emergency stops activated while operating
- ✓ Number of genset's stops
- ✓ Maintenance deadlines
- ✓ History / Management of the 300 last genset's events

1.1.1.5. Messages list, alarms and faults

- ✓ Number of operating hours
- ✓ Date and time
- ✓ Operating modes
- ✓ Start-up phase
- ✓ The cooling phase
- ✓ Operating time in TEST mode
- ✓ Safety messages
- ✓ Oil pressure fault
- ✓ Coolant temperature fault
- ✓ Non-start fault
- ✓ Overspeed fault
- ✓ Alternator min/max U fault
- ✓ Frequency min/max fault
- ✓ If external AMF predisposition - alternator overload fault
- ✓ Emergency stop button activated
- ✓ Low coolant level fault on general fault
- ✓ Battery min/max U alarm
- ✓ Battery charger fault alarm

1.1.2. Control and programming systems

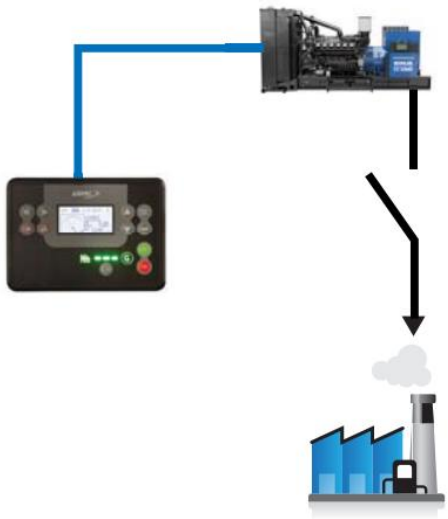


- ✓ 1 power up control
- ✓ Screen programming and/or browsing controls
- ✓ Electrical and mechanical values interrogation controls
- ✓ 1 "START" button
- ✓ 1 "STOP" button

Inside

- ✓ Integrated electronic circuit board including the following functions:
  - Power supply
  - Inputs/outputs
  - J1939 CAN ECU engine control
  - Standart communication tools :
    - CAN USB Host, USB device, RS485
    - Protocole SNMP, MODBUS
- ✓ Automated management of starting attempts (between 1 and 6 attempts)
- ✓ 1 module for the transfer of data or faults
  - Genset in automatic mode
  - General fault
  - Non-starting fault
    - Emergency stop push button engaged fault
  - Battery low voltage alarm

1.1.2. Configuration



✓

This configuration is designed to guarantee an emergency power supply to an installation following loss of the mains power. The mains power return will be ensured via Normal/Emergency switching with shutdown.

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Industrial Diesel Generator Set – KD165
50 Hz

Dimensions and Weights



Dimensions DW compact version	
Overall Size, max., L x W x H, (mm)	2918 x 1103 x 1668
Tank capacity (L)	689
Dry weight (kg)	1510

** dimensions and weight without options*

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit; Fuel density at 0.85 kg/L.

Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Test conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results. Data and specifications subject to change without notice

2.2 Acoustic Solution

2.2.1 Acoustic Solution

Now designed to the suit a KD 165 Diesel engine powered generator set.
To achieve 50dB(A) @ 1 metre, from the ventilation Louvres,
44dB(A) @ 5 metres from the Exhaust Gas silencers, under standard test conditions, free field.
All based on a 35□C maximum ambient and 1500 RPM operation, and your use of a REHLKO Radiator: (cooling flow: 2.49 m3/s.
Cooling air @ 150Pa Duct allowance & 4.65kW Absorbed fan Power).

Design Discussion

Originally based on the room drawing supplied 1211-HAR-XX-00-DR-E-6000 P3.1 and an estimated room height of 3.5m but latest drawing supplied showed reduced room height.
The original drawing doesn't seem to have allowed for any discharge attenuation.

The Previously A Summary of Attenuation performance is also supplied in Appendix A is unchanged as inlet away width & length has been maintained.
Due to the limitation of the room size it is NOT practical to achieve the required noise levels with a plantroom that is plain concrete / block, the high levels of reverberant noise generated make attenuation length increase to the extent that Plantroom access is compromised and make egress from the room in an emergency unsafe.
Therefore, we have carried out our calculations on the assumption that the plantroom is acoustically lined with 100mmT Mineral Wool Sound absorption materials on stick pins.
Supplied by others during the room build phase
We also have concerns that the client will be able to source a Plantroom access door of sufficiently hight performance to satisfy the 50dB(A)@1m criteria the Acoustic doors, thus use of inner al outer doors may be required.
Regarding Exhaust gas silencers and acoustic performance, We have reviewed this with our specialist suppliers and alternate Exhaust discharge position (On Dean St) We can offer alternate larger silencer designs and achieve the stated requirement of 44dB(A)@5m, that fits in the room, but this solution doesn't take into account, the further attenuation benefits of any exhaust flue systems you may be proposing.

Scope of Supply	approximate dimensions	est. Weight
Plantroom Acoustic Lining as above	To Complete walls and ceiling (By others)	EST 5-6kg/m2 at 100mmT

Inlet System: reduced height

Attenuator with weather louvres:	1800mmL x 750mmW x 1800mmH	440kg
Motorised louvre:	+200mmL x sized to suit	30kg
Support Legs:	NO supported from floor	

Discharge System: (Unchanged from Q4)

Steel Plenum:	+300mmL x sized to suit.	20kg
Gravity Flap louvre:	+200mmL x sized to suit	20kg
Attenuator with weather louvres:	2300mmL x 1020mmW x 1200mmH	450kg
Support Legs:	YES - 500mmH Max x sized to suit.	

Exhaust System (rotated primary through 180 Degrees (Now located above the Discharge attn) then 2 x 90degree bends so the secondary is pointing back in the original direction, this will create space for a tailpipe)

New Primary Exhaust gas silencer :	2295mmL x 540mmØ x 125mmBore	135kg
New Secondary Exhaust gas silencer :	550mmL x 420mmØ x 125mmBore	65kg
Tailpipe	Max 2000mm Long x sized to suit	30kg
Silencer Lagging :	Plus, 50mm Thick all round	80kg
Support Frame :	Due to lack of space, Drop Rods from roof recommended	

Exhaust flue tailpipe extension

To supply and install 150mm twin walled stainless steel inner & outer pressure and water-resistant CE APPROVED, V-band JOINTED, 4 HOUR FIRE RATED 75mm insulated (Assumed adequate noting we do not have the genset data to confirm 70c touch temp) flue from 1No. generator unit. To adapt from free issue secondary silencer, running approx. 4.4metres through penetration c/w fire stopping plates (insulation by others), terminating with a bird beak terminal. To include adaptors, elbows, drain points, test points, closure plates etc to allow the installation of the above in one visit.

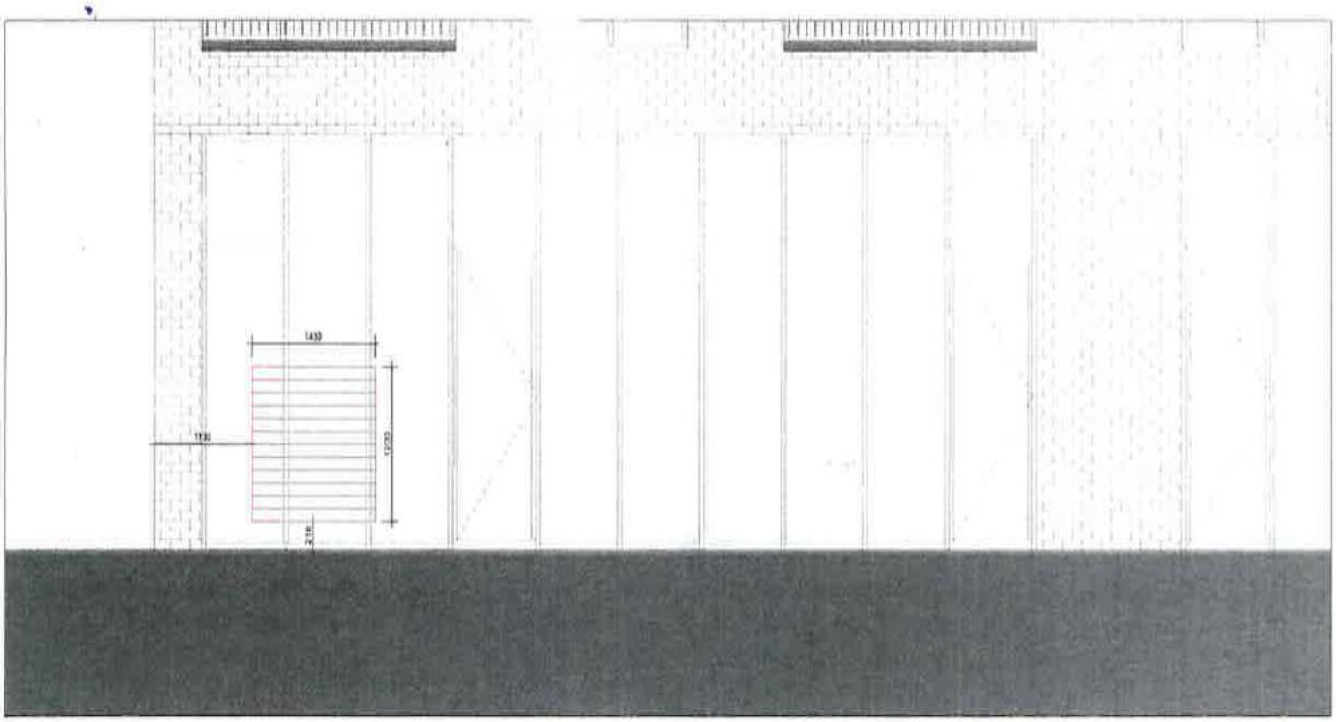
The above exhaust silencer will provide EI240 fire rating and the arrangement has been adapted to have the new flue extension from the 600 mm from the secondary silencer to allow for the required insulation and plates.

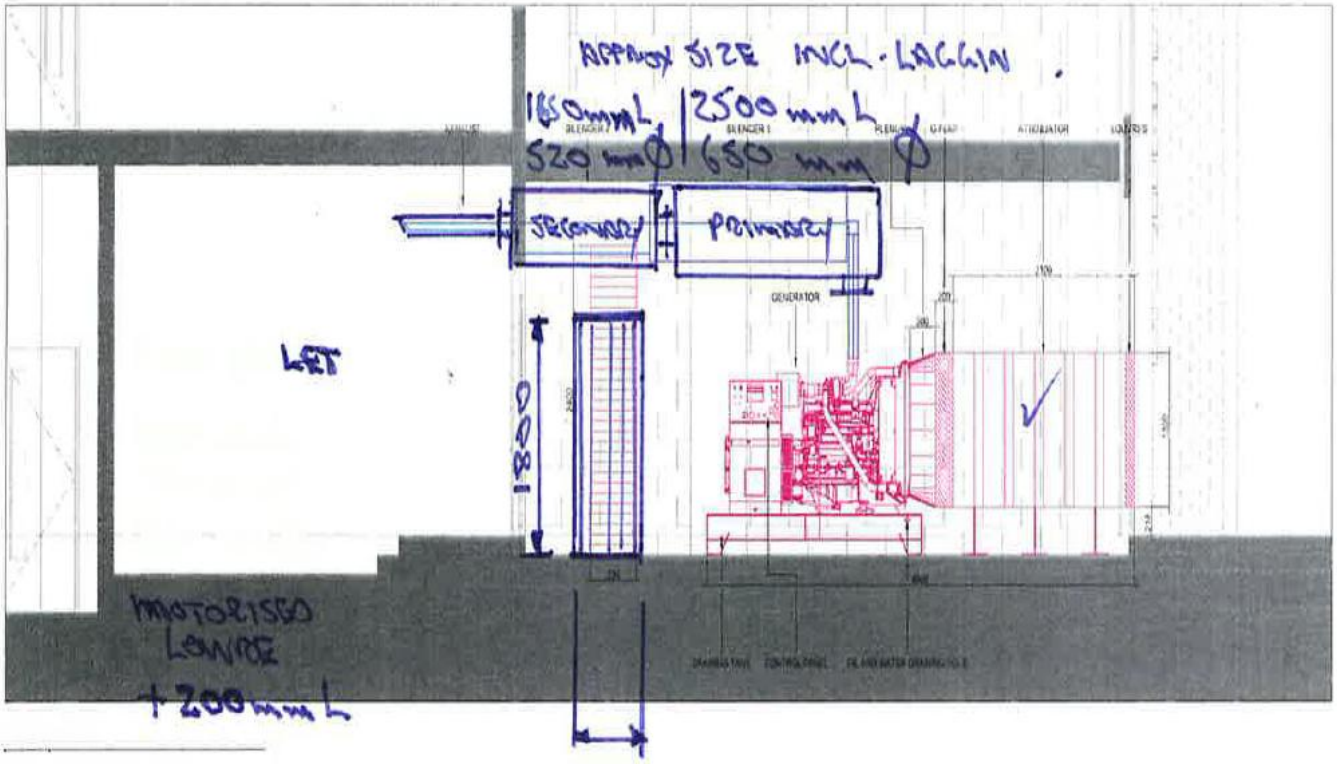
Finish

Louvres finished painted in a single standard colour 2-pack acrylic paint system, suitable for an inland aggressive C3 environment.
Paint colour to be of your choice from the BS4800 / RAL / BS381C colour charts.
(EXCLUDING RAL 9006 & 9007 metallic Colours, which are not suited to wet paint systems).
Attenuators: Semi-Gloss White finish.

Site installation:

Mechanical Installation subject to site survey
Based on Delivery and off-load curb side adjacent to plant room WBPS transport
Out of hours working is excluded.
Is based on a complete room, free of other trades. Any and all delays due to Force majeure events or any other beyond the control of ourselves are fully chargeable.




APPROX SIZE INCL. LAGGING
1850mm L | 2500 mm L
520 mm Ø | 650 mm Ø
SECONDARY
PRIMARY
GENERATOR
LIFT
1800
MOTORISED LOUVRE
+200mm L

Comments and assumptions

It is assumed that the plant room walls, ceiling and floor are of sufficiently substantial construction to match or better the performance of the above equipment.

1) Acoustic Lineout of the plantroom may be required, depending upon room construction.

2) Plantroom size has a direct effect on the performance of the equipment quoted above. We have designed the equipment based on a plant room size of not less than:
6400mmL x 3065mmW x 3500mmH.
We reserve the right to reassess costs if plant room sizes differ significantly from said stated sizes.

3) No provision is made for either noise or cooling requirements of other equipment within the plantroom.

4) We assume all parts of the exhaust system within the plantroom are thermally treated.

5) If it is intended to install our supplied attenuation equipment behind Architectural louvres supplied by others, please provide all louvre information and ask for a re-quote, to allow us to re-calculate attenuation sizes and costs. The high-pressure usage common with most Architectural louvres, significantly reduces the duct allowance available to us for the attenuator design and can adversely affect size and cost of our equipment.

6) The motorised louvres are offered above they are assumed to be 230V/AC and Spring-open/Motor-close unless otherwise instructed by you.

7) The above Quotation includes for the mechanical installation of the equipment on site, based on the following criteria:

i) Unrestricted Vehicular and Personnel access to area directly surrounding the job site.

ii) Use of a fork-lift truck on site is permitted, by a licensed driver.

iii) Other trades to be embargoed from working in the plantroom whilst our personnel installing the above equipment.

iv) Waterproofing of the roof structure following the installation of any flues – by others.

v) NO civil works are included in the offer.

2.3 Fuel Storage Solution

The 165 KVA Standby rated generating set will consume approximately 39 l/hr at 165 kVA Standby rating.

2.3.1 Fuel System

Base Fuel Tank

The canopied generator has a base fuel tank 689 litres providing approximately 17.6 hours autonomy at full Standby rating. Note no dump facility is available.

2.3.2 Fuel fill Point Cabinet and Fill pipework

Item	Description	Qty
1	Remote Fuel Fill Point (Single Fill) 1 x 2" Tanker Connection Assembly: IV, NRV, fill nipple and cap, and PN16 Flange for outgoing fill pipework to tank. 1 x Digital Tank Contents Gauge (OLE C2020) w/4-20mA output for BMS integration. 1 x Tank Overfill Alarm Unit 1 x BMS Junction Box 1 x Breaker Panel 1 x Removable drip tray in base of enclosure. All items housed in a mild steel powder coated, IP rated lockable enclosure, suitable for mounting on wall.	1
2	Fuel System Pipework Double walled crimped metallic pipe system comprising of a carbon steel core pipe enclosed in a stainless steel outer pipe, complete with double walled bends and pipe closures with leak monitoring ports. All Seals FKM Blue (for hydrocarbon fuels suitability). From Fill Point Cabinet (Single Fill) to Genset Base Tank: For Fill Line - 10m Approx. 10m x DN50 DoublePress Pipe (CS/SS) 5 x DN50 DoublePress Bends 2 x DN50 DoublePress End Terminations 1 x 2" Fuel Transfer Hoses (01 Mtr) with Fixed Male Threaded Terminations for final connections.	1

3	Pipe Containment Unistrut (or equivalent manufacturer) pipe containment materials where required to secure in position all above ground fuel pipework as supplied; 41mm channel / cantilever arms / window brackets / rod / pipe clips and fixings. Methodology to be established at site survey, all materials to be supported from existing steel work or direct to building wall/ceiling/floor.	1
4	Control Cable, Cable Tray & Junction Boxes Control cable between fill point gauging/overfill alarm system and base tank level sensors. Up to 15m x multi-core control cable 2 x Control Cable Junction Boxes (at Fill Point & Genset Base Tank). Up to 15m x 50mm wide medium duty galvanised cable tray, with fixings and supports. Cable ties.	1
5	Installation & Testing Site Supervision by SSSTS and first aid certified Engineer. Mechanical Installation of as quoted fuel pipework system and containment. Installation & commissioning of as quoted Fill Point Cabinet. Installation of as quoted control cable & containment. Installation & Commissioning of as quoted leak detection unit. Pressure testing of completed pipework system. RAMS, test certification and commissioning log to be provided to client. Engineers' travel time, mileage, accommodation and expenses included for mid-week works in Manchester. PLEASE NOTE – Any delays or works interruption outside of our control resulting in return visits for completion will be chargeable to the client (at an agreed price before our return).	1

6	Pipe Leak Detection System – SGB VLR410E Vacuum leak detection system suitable for operation on double walled diesel/fuel oil/coolant pipe systems with appropriate leak monitoring port to interstitial space of pipe. VFC available for BMS integration. Complete with leak detection tubing and fittings to connect to double walled pipe monitoring port. System to be mounted in weather protected area. Not suitable for petrol/kerosene/low flash product monitoring.	

Bulk Fuel System (Excluded)

2.4 Site Services

2.4.1 Factory Acceptance Test – Standard test certificate Included (Witness Testing Excluded)

2.4.2 Delivery, Off load and Positioning

To deliver the generator and ancillary equipment to site, offload and position kerbside only (any extended reach craneage is to be provided by others). We have assumed that the delivery vehicle (HIAB) can be located adjacent the generator base. We have also assumed that the generator will be delivered and positioned on the same day. Subject to a site survey.
We allow for low level and localized offload with HIAB only .

2.4.3 Builders work

We have **not** included for any builders work. The generator base should be level to +/-3mm

2.4.4 Mechanical Installation

Mechanical installation of set and attenuation and exhaust as described within only and subject to a site survey.

2.4.5 Electrical Installation

We have **not** included for any electrical installation works.

2.4.6 Commissioning

We have included to undertake commissioning of the generating set in line with WBPS standard commissioning procedures.
Commissioning will be undertaken on the set and will take place over 2 weekdays, in normal working hours using the building load. We have not included for any fuel used during commissioning.

2.4.7 Site Acceptance Testing

Testing of set which will include:

Visual inspection of the generator load test set for 2 hours.

Demonstrate selected alarms and shutdowns

Testing will be undertaken using site load or the option of a resistive load bank.

We have **not** included for client travel and subsistence or fuel.

2.4.7 IST Attendance

We have offered an optional day rate cost for a commissioning engineer to attend site to attend IST (integrated system testing). IST to be undertaken on one day during normal week day working hours

2.4.8 Site Training

We have offered an optional cost for a commissioning engineer to attend site to complete one day of site training for client staff. Training to be undertaken on one day during normal week day working hours

2.4.9 First Year Maintenance Contract for standby sets (Excluded).

2.5 Options/Comments

The scope of our offer is as outlined above. This proposal has been engineered our standard range of products which offer a comprehensive range of generating sets designed to achieve the highest technical standards, whilst remaining commercially attractive.

1. Sizing of set is as specified by others. As discussed this rev proposal is based on our new 165 kva set the KD165 and assumes that loads applied are controlled by others and added to stay within the KD165 load step limits of G2 performance class. Please see supplied load step data.
2. We exclude the provision of a fuel polishing system as we recommend the use of HVO fuel oil which does not require fuel polishing.
3. We allow for fire valve to shut off fuel in the event of fire. We do not allow for any dump facility.
4. We allow for local exhaust discharge only and exclude any extended exhaust flue.
5. The offered set is suitable for operation in island mode only and not parallel operation with another set or the mains utility.
6. We allow for to offload locally. We do not allow for any extended lift craneage. All subject to site survey.
7. Our proposal is based on the set being for standby purpose and a designed test regime of less than 50 hours per annum. Use of the set for any other purpose may require exhaust emission compliance with the MCPD at extra cost.
8. Changeover panel, Cabling, Earthing and electrical installation assumed by others.

Section 3 General Information

3.1 Delivery, Installation & Testing Clarification
3.2 General Conditions, Exclusions & Comments
3.3 Documentation
3.4 Warranty
3.5 Spares, Maintenance & Life Cycle Recommendations
3.6 Availability
3.7 Sub-contract
3.8 Payment Schedule
3.9 Offer and Validity
3.10 Terms & Conditions

3.1 Delivery, Installation and Testing Clarification

Electrical installation other than that specifically detailed within this proposal is to be provided by others. Cabling between generator panel and others LV panels is not included – we can advise of requirements. Any cable requirements between generating set and other equipment is not included. All associated civil works are to be carried out by others, we can advise on requirements.

Following completion of installation of external electrical items and satisfactory testing of site equipment beyond the scope of this tender, the generator commissioning and final handover of equipment would be concluded on site. This has been calculated based on normal weekday working hours (08.00 to 17.00).

Commissioning includes:

- Check over installation to ensure all works have been completed in accordance with approved specification.
- Confirm the mechanical/electrical installation has been completed and inspection certificates are in place, together with any applicable permits.
- Ensure engine has sufficient lubricant levels.
- Ensure coolant system is fully charged with correct mix.
- Ensure sufficient fuel is in the system to complete test runs.
- Ensure all airways, vent grills, breathers and exhaust vents are free from obstruction.
- Energize aux supplies and check battery charge output and engine heaters operate correctly.
- Run generator off load and check for any leaks.
- Shutdown set and ensure engine heaters and battery chargers re-energize.
- Select ‘Auto’, operate mains failure device to check auto start of generator (if fitted).
- ‘Black Start’ test can be completed at this point if building manager is available.
- Complete load test, dependant on customer requirements and installation specification to ensure system is operating correctly.
- Sign off commissioning certificate with client.

On approval of tests, all documentation will be handed over.

The testing of the noise criteria will be on own supplied equipment.

All access equipment will be supplied and set up by others.

Additional testing/training days will be charged extra as required.

Equipment to be delivered via suitable hiab/articulated vehicles during normal working hours.

3.2 General Conditions, Exclusions and Comments

We will carry out our standard works test and PDI procedure at our works. This includes a thorough examination of the generator and ancillary items, comprising of initial check of equipment followed by a simulated test of operation of all automatic functions and generator protection circuits. Once completed each unit would be subject to a loaded test run of varying and full load to prove satisfactory operation.

Load test runs to be completed using a resistive load bank of suitable capacity.

Tests are completed in accordance with our standard testing procedures, any additional tests required would be charged at extra cost. On completion of testing, a test certificate would be issued as part of our standard O&M manual.

Electrical installation beyond that detailed within this proposal is completed by others. Should you wish we can quote for these extra works separately.

No fire suppression system has been quoted for unless detailed in section 2, should you wish this can be quoted separately.

Any required builders work outside of those detailed within this proposal including fire stops and fire rated ducts/enclosures etc are to be completed by others.

Prices will be fixed for a period of 30 days from date of proposal due to fluctuations in exchange rates and pricing matrices.

All fuel for test, commissioning and first fill to be provided by others unless accepted as a cost option at time of order.

Other exclusions

- Road closure, traffic management, police attendance etc. for the off load of the generator set and associated equipment.
- Provision of temporary lighting and power for mechanical tools adjacent to all areas of work.
- Electrical, heating/ventilation and fire protection within the generator enclosure.
- Provision of a mains power supply to a distribution board within the generator acoustic enclosure.
- Wiring associated with the provision of remote alarms or controls.
- Fuel for commissioning.

3.3 Documentation

We have included for two paper copies of our standard operation and maintenance manuals. These will contain specific information regarding the installed solution. Also included are two CD copies of the above operation and maintenance manuals.

Included Drawings

Two copies of the following drawing will be supplied:

- General generator arrangement.
- General fuel tank arrangement (optional).
- Engine electrical schematic.

Any extra copies of the above documentation or documentation required outside of that listed above can be supplied at extra cost.

3.4 Warranty

New Generator Warranty

For generators used in standby application 12 months from date of commission or 18 months from date of delivery whichever is soonest.

The warranty period can be extended at extra cost should you take out the first year maintenance contract with WB Power. However this *must* be requested at time of order. Contact our office for details.

Please see a copy of our warranty terms and conditions for a full explanation. A copy is available on request.

3.5 Spares, Maintenance and Life Cycle Recommendations

It is WB Power services Ltd's policy to offer contract maintenance agreements for equipment supplied. This entails regular site visits on an agreed frequency per annum to carry out routine preventative maintenance and check over the equipment to ensure that it remains in a state of efficient operation.

Maintenance – 12 Month Period

We recommend a two visit per annum service contract consisting of 1 x minor service followed by 1 x major service all as per the manufacturer's recommendations. Oil as per our SO68 service schedule, Oil to be sampled not changed due to application.

Labour and service consumables included.

No spare parts are included within this offer unless detailed in section 2.

General

- Anticipated economic life expectancy assuming routine maintenance: 30 years
- Recommended frequency for planned maintenance is 250hrs or twice a year.
- For schedule of activities see our SO68 document enclosed.
- All servicing is carried out by qualified WB staff
- 4hr normal guaranteed engineer response time 24/7

3.6 Programme

We can confirm that all major items of equipment for this project are on a lead time of 24 weeks (confirmation at the time of order) for the set .

We estimate the generator installation will take 3 days and a further 2 days for generator commissioning.

3.8 Typical Payment Schedule

- 20% non-refundable deposit due on confirmation of order.
- 70% due on generator/switchboard readiness prior to dispatch from factory.
- 9% on completion of installation or one month from delivery
- 1% on completion of commissioning or one months from completion of installation

Payment schedule refers to cleared funds.

Cleared funds average timescale for further clarification:

- CHAPS – Funds cleared within 48 hours of payment
- BACS – Funds cleared within 5 working days of payment
- Cheque – Funds cleared within 7 days of receipt of payment

Please see our full terms and conditions for further details.

3.9 Offer & Validity

WB Power Services Ltd will always endeavor to meet the agreed delivery times quoted, however we will accept no costs or liabilities relating from late delivery of goods or services.

All prices quoted are subject to VAT at the standard rate and all goods remain the property of WB Power Services Ltd until paid for in full.

WB Power Services Ltd full terms and conditions apply unless otherwise agreed in writing by and authorised person.

References to generator specifications made within this document are as defined by the engine manufacturers. Any reference to suggested coolant types and levels; and lub oil type and levels made within this quotation are as defined by the engine manufacturers. Quoted load acceptance figures are not to be misconstrued as a guarantee of performance and are advised as a technical guide only in accordance with the engine manufacturers published literature and data (actual figures can be measured and documented at works test if requested at time of order. The works test results shall take precedence over any other quoted data). WB Power Services Ltd will take no responsibility for errors in this information supplied.

Please be aware that cancellation charges may apply if an order for the goods or services outlined in this quotation is cancelled. Our standard cancellation charge is 25% of order value but may vary as per section 3.4 of our terms and conditions.

Quotation remains valid for 30 days from date of provision, thereafter subject to confirmation.

Please read our offer carefully to ensure that we fully comply with your requirements. No liability will be taken after confirmation of order for any omissions to scope of supply.

3.10 Terms & Conditions

1. DEFINITIONS

In these terms and conditions the "Company" means WB Power Services Ltd., the "Buyer" means the person, firm or company to whom this document is addressed and the "Goods" means the goods and/or services to be purchased by the Buyer under the contract in which these terms and conditions are incorporated (the "Contract"). All headings are included for reference purposes only.

2. BASIS OF THE SALE

2.1 The Company shall sell and the Buyer shall purchase the Goods in accordance with any written quotation or price list of the Company which is accepted by the Buyer, or any written order (including delivery schedules) of the Buyer which is accepted in writing by the Company, subject in either case solely to these conditions. These conditions shall apply to the exclusion of any other terms and conditions howsoever referenced by the Buyer.

2.2 No variation to these conditions shall be binding unless agreed to in writing by a duly authorized representative of the Company.

2.3 The Buyer acknowledges that this sale was not entered into in reliance on any representations made by any employee or agent of the Company or appearing in any sales literature or related data unless specifically incorporated into this Contract.

3. ORDERS AND SPECIFICATIONS

3.1 No order for the Goods submitted by the Buyer shall be deemed to be accepted by the Company unless and until confirmed in writing by the Company.

3.2 The quality, quantity, scope, description of and any specification for the Goods shall be solely as set out in the Company's quotation, or Buyer's order and delivery schedules if and when they have been accepted by the Company in writing.

3.3 The Company reserves the right at any time to make any changes in the specification or design of the Goods where either such changes are required to ensure that the Goods conform with any applicable safety or other statutory requirements or where such changes do not materially affect their quality or performance. Delivery of Goods conforming to such altered specification or design shall constitute proper performance of the Contract by the Company.

3.4 No order which has been accepted by the Company may be cancelled in whole or in part by the Buyer except with the prior written agreement of the Company. Such agreement will only be given on terms, which compensate the Company in full for all losses and expenses howsoever resulting from the cancellation.

4. PRICES

4.1 The price of the Goods shall be the Company's quoted price or, where no price has been quoted, (or a quoted price is no longer valid) the price listed in the Company's published price list current at the date of acceptance of the order. Unless otherwise stated all quoted prices are valid for 30 days only.

4.2 Except as otherwise agreed in writing between the Company and the Buyer, all prices are given by the Company on a delivered ex works basis and will exclude all duties, taxes and customs fees. Where the Company agrees to deliver the goods elsewhere, the Company shall invoice the Buyer separately for the costs of transport, packaging, insurance and customs fees, duties and taxes.

4.3 All prices are exclusive of value added tax, which will be added where appropriate to all invoices at the then current rate.

4.4 The Company reserves the right by giving written notice to the Buyer at any time before delivery, to increase the price of the Goods to reflect any increase in the cost to the Company which is due to any factor beyond the Company's control, any change in delivery dates, quantities or specification which is requested by the buyer or any delay caused by any instructions of the Buyer or failure of the Buyer to give the company adequate information or instruction.

5. PAYMENT

5.1 Except as otherwise agreed in writing between the Company and the Buyer, the Company may invoice the Buyer for the price of the Goods on or at any time after delivery or in the case of services after performance. Where delivery is ex works, the Company may invoice the Buyer forthwith after notifying the Buyer that the Goods are ready for collection.

5.2 The Buyer shall pay the price of the Goods within 30 days of the date of the Company's invoice unless stated otherwise in writing, notwithstanding that delivery may not have taken place and title in the Goods has not passed to the Buyer. Time for payment of the invoice shall be of the essence. The Buyer shall also be responsible for all costs associated with making such payment to the Company.

5.3 If the Buyer fails to make any payment on the due date then, without prejudice to any other right or remedy available to the Company, the Company shall be entitled to:

5.3.1 Cancel the Contract or suspend any further deliveries to the Buyer, and/or at its sole discretion

5.3.2 Charge the Buyer interest on the amount unpaid at the rate of 8% pr annum above The Bank of England base rate from time to time until payment is made in full by the Buyer.

6. DELIVERY

6.1 All delivery terms are to be interpreted by reference to the then current addition INCOTERMS. Delivery of the Goods shall be made either (a) by the Buyer collecting the Goods at the Company's premises at any time after the Company has notified the Buyer that the Goods are ready for collection or (b) if some other place for delivery is agreed in writing by the Company, by the Company delivering or causing to be delivered the Goods to that place. Where the Goods are to be delivered to the Buyer's facility or nominated site, the Buyer shall be responsible for all unloading activities and the costs thereof. The Company reserves the right in all such cases to deliver the Goods to the nearest point of suitable access.

6.2 Any dates quoted for delivery of the goods are approximate only. The Company shall not be liable for any delay in delivery of the Goods howsoever caused including by reason of late or non-submission by the buyer of agreed data or information. Time for delivery shall not be of the essence.

6.3 Where the Goods are to be delivered in installments, each delivery shall constitute a separate contract. A failure by the Company to deliver any one or more of the Installments in accordance with these conditions or any claim by the Buyer in respect of any one or more installments shall not entitle the Buyer to treat the Contract as repudiated.

6.4 If the buyer fails for whatever reason to take delivery of all or any of the Goods, then without prejudice to any other right or remedy available to the company including the right to enforce payment under Clause 5.2, the Company may:

6.4.1 Store the Goods at the Buyer's cost and risk until actual delivery or 30 days (whichever shorter) and charge the Buyer for the reasonable storage costs (including transport, handling and insurance); and/or at its sole discretion

6.4.2 Sell the Goods elsewhere after notifying the Buyer in writing of its intention to do so and claim liquidated damages of 15 per cent of the invoice price of the Goods.

7. CLAIMS RELATING TO DELIVERY

7.1 Any claim by the Buyer relating to either non-delivery of or damage to all or part of the Goods or that the Goods are not in accordance with the Contract must be made to the company in writing within 7 days of the Buyer's receipt or deemed receipt of the Goods or, in the case of non-delivery of all the Goods, within 10 days of the date of the Company's invoice. Failure to do so means that the Buyer shall be deemed to have accepted the Goods. Any Claim by the Buyer must incorporate all relevant details and information and permit the Company or its agent's reasonable access to inspect the Goods.

7.2 In the event of a valid claim under Clause 7.1 above, the Company's liability shall, at its option, be limited to delivery of the Goods or repaired or replacement Goods (as the case may be) at no cost to the Buyer to the originally agreed delivery point. All replaced Goods shall become the Company's property and under its instruction.

8. RISKS AND TITLE

8.1 Risk or damage to or loss of the Goods shall pass to the Buyer when the Company notifies the Buyer that the Goods are available for collection or on delivery whichever is sooner.

8.2 Notwithstanding delivery and the passing of risk in the Goods, the title in the Goods shall not pass to the Buyer until the Company has received in cash or cleared funds payment in full of the price of not only the Goods but all other goods or services agreed to be sold by the Company or any other legal entity within the Wilmott Brothers is then due. Not withstanding any passing of title in the particular Goods, this shall not serve to transfer to the Buyer or any user of the Goods any intellectual property rights in such items, which rights shall remain solely vested in the Company and its suppliers.

8.3 Until such time as title in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Company's fiduciary agent and bailee and shall keep the Goods separate from those of the Buyer and third parties and properly stored, protected and insured as the Company's property.
Prior to the title passing the Buyer shall be entitled to resell or use the Goods in the ordinary course of its business. It shall account to the Company for the proceeds of sale or otherwise of the Goods (whether tangible or intangible including insurance proceeds) and shall keep all such proceeds separate from any other monies or property.

8.4 Until such time as title in the Goods passes to the Buyer (and provided the Goods are still in existence and have not been resold), the Company shall be entitled at any time to require the Buyer to hand over the Goods to the Company. If the Buyer fails to do so, the Company may forthwith without any restrictions enter any premises of the Buyer or any third party where the Goods are stored and repossess the Goods without any liability thereby arising.

9. WARRANTIES AND LIABILITIES

9.1 Subject to the conditions set out below and the terms of the then current Company's Service Warranty Manual (which terms are deemed to be incorporated herein), the Company warrants that the Goods will be free from defects in workmanship and material for a period of 12 months from the date of delivery to the first user thereof or 18 months from delivery to the Buyer whichever is the first to expire. In the event of any conflict as between these conditions and the terms of the Company's then current Service Warranty Manual, the former shall prevail.

9.2 The above warranty shall not unless otherwise expressly agreed to in writing by the Company extend to;

9.2.1 Any accessories or proprietary fittings whatsoever and howsoever supplied,

9.2.2 Goods used for a purpose, for which they were not designed,

9.2.3. Goods which in the opinion of the company have been altered, used, maintained, serviced or stored otherwise than in accordance with the Company's recommendations including the use of non-approved items in the service, repair or maintenance of the Goods,

9.2.4 Goods from which the Company's numbers or markings have been altered or removed,

9.2.5 Defects arising from any drawing, design or specification supplied by the Buyer or its customer,

9.2.6 Defects arising from fair wear and tear, willful damage, negligence, abnormal working conditions (including overload, overspeed, use outside approved application) failure to follow the Company's recommendations and service warranty procedures (whether oral or in writing), misuse or alteration or repair of the Goods without the Company's prior approval.

9.2.7 Parts, materials or equipment not manufactured by the Company, where the Buyer shall only be entitled to any benefit obtainable under any warranty given by the Company's supplier.

9.2.8 Costs of removal and refitting of Goods into the specific application or product.

9.3 For claims to be valid they need to be notified to the Company in writing, incorporating all relevant details and information and submitted within 7 days of the alleged failure. Where any valid claim by the Buyer for breach of the warranty contained in Clause 9.1 above is notified to the Company in accordance with these conditions, the Company may, at its sole option, elect to repair or replace the defective item free of charge to the Buyer. All replaced Goods shall become the Company's property and under its instruction. In the case of defective services the Company's sole obligation with respect to any valid claims shall be to reperform the alleged defective service at no cost to the buyer.

9.4 Subject as expressly provided in these conditions, all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law, except where the Goods are sold to a person dealing as a consumer.

9.5 Subject to Clause 9.6, (a) the Company shall not be liable to the Buyer for any indirect or consequential loss, damage, expense or cost (including but not limited to loss of profits, contracts or production) howsoever arising out of or in connection with the supply of the Goods or their use or resale by the Buyer, and (b) the Company's maximum liability howsoever arising out of or in relation to this Contract shall be limited to the invoiced value of the Goods concerned.

9.6 Nothing in these conditions shall have the effect of excluding or restricting the liability of the Company for death or personal injury resulting from the Company's negligence.

9.7 The Buyer will carry out all certification activities relating to products into which the Goods are incorporated and will ensure that the Goods comply with legislation in force in territories where they are to be sold or used. The Buyer shall indemnify the Company against all liability, loss, damages, costs and expenses howsoever arising from any breach of this obligation.

10. FORCE MAJEURE

The Company shall not be liable to the Buyer or be deemed to be in breach by reason of any delay in performing or any failure to perform any obligation in relation to the Goods if the delay or failure is due to any cause beyond the Company's reasonable control.

11. INSOLVENCY OF BUYER

11.1 The Company shall be entitled either to cancel the Contract in whole or in part or to suspend any further deliveries of Goods or performance of services under such Contract without any liability to the Buyer forthwith by written notice if (a) the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or becomes bankrupt or goes into liquidation, or a receiver is appointed over any of the property or assets of the Buyer; or (b) the Buyer ceases or threatens to cease to carry on business or is unable in the Company's reasonable opinion to meet its debts as they fall due; or (c) the Company has reasonable grounds for believing that any of these events is about to occur in relation to the Buyer.
The above rights shall be in addition to any other rights of the Company in such circumstances.

11.2 If any Goods have been delivered or services performed but not paid for, then the price shall become immediately due and payable notwithstanding any previous arrangement to the contrary.

12. MILLENIUM COMPLIANCE

12.1 Subject to Clause 12.2 below and for the warranty period stated in Clause 9.1 above the Company warrants that any Goods supplied by it under this Contract are millennium compliant and will not cease to be so at any time prior to, during or after the year 2000. For the purpose of this warranty "millennium compliant" means that neither functionality nor performance is or will be affected by dates prior to, during or after the year 2000. The Goods are further warranted to comply with the following rules:
(1) No value for current date will cause any interruption in operation.
(2) Date-based functionality will behave consistently for date prior to, during and after the year 2000.
(3) In all interfaces and data storage, the century in any date must be specified either explicitly or by unambiguous algorithms or inferencing rules.
(4) The year 2000 will be recognized as a leap year.

12.2 The above warranty is the only warranty given by the company with respect to the millennium compliance or otherwise of any Goods supplied by it under this contract. The liability of the Company under Clause 12.1 shall be limited to the repair or replacement, at the Company's option, of the Goods or components proven to be defective.

13. GENERAL

13.1 Any notice required or permitted to be given by either party to the other under these conditions shall be in writing addressed to the other Party at its registered office or such other address as may have been notified in writing.

13.2 No waiver by the Company of any breach of these conditions by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other proviso.

13.3 If any provision of these conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisos of these conditions shall not be affected.

13.4 The Contract and all matters related to it shall be governed by the laws of Great Britain and all disputes and related matters shall be subject to the exclusive jurisdiction of the British Courts.

13.5 The Company may at its option assign or subcontract the whole or any part of this Contract to any third party.

Section 4 Company Information & Quality Standards

4.1 Company Background, Services & Accreditation
4.2 Project Team
4.3 Quality Assurance Standards

4.1 Company Background & Accreditation



Since 1983 WB Power Services Ltd have been specialists in the provision of diesel engine backup power generation, supplying units from 10Kva right through to containerised 3000Kva units.

Boasting a portfolio of clients covering every industry from the SME sector right through to large corporations and government bodies including hospitals/health authorities, water companies, rail infrastructures, utility companies, telecoms, banks and all forms of commercial and industrial operations, WB Power Services has the experience and knowledge to provide the perfect package for any application.

With a solid commitment backed up with quality controls including ISO9001, ISO14001 and OHSAS18001, client satisfaction and peace of mind is guaranteed. Services range from basic supply of generators through to complete project management including initial site survey, design of systems, installation, testing and final commissioning – followed up by a complete after sales and service package including tailored maintenance packages, load testing and spare parts stock. Recognising the ever changing need for improved backup power in today's industries, heavy investment has been made to continuously develop the skill set within the personnel and control policies to ensure WBPS are market leaders in both supply and after sales. This includes 24/7 emergency call out facility for 365 days each year and guaranteed response times through the technical helpline and nationwide experienced service team.

The reputation of WBPS is an enviable one; this is due to the ability of its employees, dedication to providing the right solutions for every situation and for clear communication and technical awareness offered to its client base. Utilising a bespoke on-line system, the service department can remotely monitor the condition of your generator sets and link this information direct to the team of service engineers. This enables discovery and rectification of any issues before they cause problems - ensuring your generator remains in peak condition.

With supply agreements secured with a wide range of international generator manufacturers, you are certain of receiving the best suited package to both your business and budget. So no matter what your requirement, WB Power Services can provide a solution to suit you for efficient and reliable backup power.

From initial advice to the complete system design, installation and ongoing maintenance of your generator, WB Power services ltd offer a complete turnkey solution for your generator needs. Design and installation teams will take care of it all - from 10 kVa to 3 mVa single or multiple units. As a company WBPS prefer to use the term service partnerships rather than service contracts. The aim is to give you the customer complete peace of mind and confidence that, whatever your requirement, your equipment is receiving the best care possible.

National service operations cover the whole of the UK with a fleet of mobile fully trained engineers supported by a centrally based modern workshop facility and well stocked parts department.

For unplanned maintenance requirements (i.e. breakdowns) the 24 hour / 7 days a week emergency call out facility gives added comfort.

The Company is accredited to ISO9001, ISO14001 and OHSAS18001 - standards which speak volumes about the quality of service available..

- Single and multi visit maintenance contracts
- On Site Load testing up to 1.5 MW
- Site repairs and overhauls
- Out of hours working
- Workshop facility Backup
- Parts Supply
- Borescope inspection
- Unique Internet based interactive operating Data base system
- Country wide seven day a week cover
- Factory trained experienced engineers
- New and second hand generator supply
- Installation and commissioning
- Full technical backup and after sales service
- ISO 9000 accredited
- ISO 14001 accredited
- Health and Safety Department









WB Power-Online

Since September 2008 our customers have had access to state of the art integrated company management system. A total upgrade from the previous online information system with the added benefit that all engineers can communicate job progress back to the office and essentially to the customers via PDA. There is no need for you to have filing cabinets full of worksheets and reports as all your data is stored on the WBPS online system which is instantly available and easily accessed via secure internet portal. The system allows clients to log in and access the complete service records either by site reference or individual equipment reference.

Projects

WB Power Services ltd offers a complete turnkey solution for all your generator and UPS needs. From initial consultations to investigate your specific requirements and ascertain the best solution, through to complete system design, installation and ongoing maintenance of your generator. Our design and installation teams will take care of it all - from 10 kVa to 3 mVa single or multiple units.

With a wealth of experience covering minor installations, right through to tender and completion of multi million pound installation and maintenance contracts for blue chip and government bodies, with WB Power Services you are assured of a team of professionals that work with your best interests in mind. And with our supply contracts and buying power, we are able to complete the entire project within defined budgets.

Generator Hire Services

Should your generating set be temporarily out of commission or there is a need for additional back up, WBPS offer a comprehensive range of self contained diesel generators for hire, ranging from 10 to 1400 kVa in single units. All sets incorporate 8 hour full load running internal fuel tanks (additional bunded bulk tanks can also be supplied if required), and all control panels are arranged for either manual or auto start. Everything from the initial site survey to help you obtain the correct generator, right through to transport to site and full installation and testing will be arranged with the minimum of fuss to ensure you have the backup power you need in the shortest response time, right from a single generator to more complex multi-set synchronization.

10 to 1,400 KVA GENERATORS FOR HIRE

- Bunded fuel tanks from 1000ltrs
- Auto changeover panels
- Dedicated HIAB transportation to site
- Cable and connection boxes
- Fully secured units
- Temporary security fencing available
- Distribution boards
- Cable ramps
- Resistive load bank hire
- Mobile tower lights
- Transformers



WBPS's entire fleet of generators are housed in sound attenuated enclosures designed to reduce sound levels to comply with the latest European Community Noise Directive 2000/14/EC; and offered with Installation and Testing Facility Provided by Experienced Engineers. Regularly replaced, this modern hire fleet of diesel generating sets are designed and manufactured to ISO accredited standards and in accordance with the latest technology and legislation always ensuring quality, safety and reliability. The size of the rental fleet coupled with in-house self-unloading HIAB delivery vehicles ensures deliveries of your generator to site for the minimum of cost and in the quickest timeframe.

Whether it's for planned routine works or reactive emergency situations, WBPS service teams can manage the logistics of your requirement from the delivery through commissioning of any temporary hire systems. This includes the on-site assessment for installing your temporary installation in a safe and sustainable manner. long-term hire routine testing and maintenance of your hire can also be arranged, including management of fuel requirements.



to the service

For system

Access to this service is available through the main office during normal hours and for out of hour's service you will be automatically directed to the national, 24 hour, 365 day emergency call-out service, allowing rapid response to your emergency needs.

WBPS - Power You Can Trust...

4.2 Project Team

WB Power Services Ltd is recognized as a market leader in supply, installation, service and repair of backup power generation services. The structure of the company has been long established and is defined to fully meet the needs of our clients.

All project, installation (except specialist sub-contractors), design and engineering sections of our business are manned by our own employees and we have the ability to operate projects of any size.

All layout and installation drawings are produced in house based on the exact requirements of the customer and are supplied for comment and approval. AUTOCAD is utilized in order to provide drawings, method statements and risk assessments etc ready for approval by the client or client's project team.

A project manager will be assigned to each project that will be the focal point of communication for the client for any issue relating to the project. The project manager will be assigned based on the individual requirements of the project and the skill set required to effectively manage it from contract award through to works testing, commissioning and handover. He will manage the day to day operations and labour requirement of the project, including any specialist sub contractors required. He will be fully aware of every element of the project throughout its duration.

The project manager will be primarily office based but will attend site meetings as necessary during the course of the contract to ensure a smooth operation. He will have backup and support from a dedicated in house team as outlined below.

Based on the project requirements, we will assign the following project team:

Technical Director: Danny Buttar

Project Manager: Mark Roberts

Project Support and Design: Antony Hough

Engineering Service Manager: Richard Carter

All method statements and risk assessments etc will be issued for all activities undertaken during the course of the contract.

4.3 Quality Assurance Standards

WB Power Services Ltd is committed to establishing policy and objectives for quality, performing management review of the system and ensuring the availability of resources. We recognize that the continued future success of the company depends on continual improvement of the service provided. The ongoing intention is to provide services which completely meet the needs and expectations of the customers. The quality management system used to achieve this policy is fully described in the WB Power Services Ltd manual; relevant sections shall be communicated and understood by all staff.

The WB Power Services Ltd Manual and supporting documentation are mandatory and binding throughout the company. The responsibility for the compilation, revision and maintenance of the quality management system rests with the Managing Director (Quality).

Authority to give directions with respect to the assurance of quality lies with the Directors, supported by the other members of staff who have a direct and continuing responsibility. The policy, systems, and quality procedures described in the quality manual are based on the requirements of the **British Standard for Quality Systems i.e. BS EN ISO 9001.**

WB Power Services believe whole heartedly in true quality. From the quality of it's staff, the quality of it's service, the quality of it's customer care supported by the quality of it's suppliers proved by the quality of it's customers. Plan what you do. Do what you plan, record it, is the simple basics of a complex package.

ISO 9001 approved since 1993 or BS5750 as it was known then, one of the first Companies in the country to achieve accreditation to this prestigious standard of excellence. We take pride in never having one non conformance raised against us. This was followed by many British Safety council awards, a Green Apple environmental award in 2003 and in 2004 the **ISO 14001** environmental standard, a standard that still today very few Companies can boast about.

CHAS and **SAFE** Contractor certification both add to the list of accolades to the Company. For over twenty five years WBPS have striven to improve the services and the quality of the company, never fearing what others are doing.

We are also approved on the **Constructionline, Achilles** and **UVDB** quality control schemes.

Most recent achievements speak volumes of WBPS's quality and success - 2009 has seen the addition and implementation of the **OHSAS 18001** Health & Safety standard putting them in the top 1% of companies in the country. In recent months the RoSPA award for Health & Safety Innovation has also been attained.