

July 9, 2025

Sirena Davila, Director  
Florida Department of Environmental Protection  
Southeast District  
3301 Gun Club Road, MSC 7210-1

Re: FDEP Consent Order OGC File No. 21-0392  
In-Kind Project Proposal

Dear Ms. Davila,

In accordance with the Consent Order (Order) for OGC Case #21-0392, the City of Hollywood (City) has elected to offset the penalty amount of \$375,908 by implementing an in-kind penalty project as outlined in Paragraph 15 of the Order.

The City proposes a capital improvement project for the procurement of portable generators to expand the City's existing inventory. This project would increase available emergency power capabilities to the City's lift stations in the event of an emergency, thereby reducing operational impacts during power outages and the risk of sanitary sewer overflows.

### **Background:**

The City's regional collection and transmission system includes 85 lift stations owned and operated by the City. Nine lift stations have permanent on-site emergency generators. The remaining 76 lift stations are equipped with a portable generator connection which allows for emergency power supply in the event of a power outage. During lift station power outages, portable generators must be mobilized to impacted stations until permanent power can be restored.

The generator size (kW) required for each lift station must consider factors such as:

- Pump motor size
- Number of installed pumps
- Current draw during pump startup (inrush)
- Instrumentation, controls, lighting, and communication equipment

The number and size of pumps and recommended portable generator size for each lift station are presented in **Table 1**.

**Table 1: Recommended Portable Generator Size by Lift Station**

Lift Station Number	Number of Pumps	Pump Size (horsepower)	Recommended Portable Generator Size (kW)	
			Duty and Standby Pumps in Operation	Duty Pump Only in Operation
A-01	2	25	125	63
A-02	2	20	100	50
A-03	2	7.5	38	19
A-04	2	30	150	75
A-05	2	35	175	88
A-06	2	23	115	58
A-07	2	25	125	63
A-08	2	3	15	8
A-09	2	15	75	38
A-10	2	20	100	50
A-11	2	2.4	12	6
A-12	2	10	50	25
A-13	2	8	40	20
A-14	2	3	15	8
E-01 <sup>1</sup>	2	15	75	38
E-02 <sup>1</sup>	3	45	338	113
E-03 <sup>1</sup>	3	40	300	100
E-04	2	20	100	50
E-05	2	25	125	63
E-06 <sup>1</sup>	3	50	375	125
E-07 <sup>1</sup>	3	10	75	25
E-08 <sup>1</sup>	2	60	300	150
E-09	2	20	100	50
E-10	2	4.4	22	11
E-11	2	4.4	22	11
E-12	2	5.4	27	14
E-13	2	10	50	25
E-14	2	40	200	100
E-15	2	7.5	38	19
E-16	2	10	50	25
E-17	2	7.5	38	19
E-18	2	4.4	22	11
E-19	2	4.4	22	11
E-20	2	2.5	13	6
E-22	2	7.5	38	19
E-23	2	7.5	38	19
N-01	2	60	300	150
N-02	2	29	145	73
N-03	2	46.9	235	117

Lift Station Number	Number of Pumps	Pump Size (horsepower)	Recommended Portable Generator Size (kW)	
			Duty and Standby Pumps in Operation	Duty Pump Only in Operation
N-04	2	5.4	27	14
N-05	2	10	50	25
N-06	2	30	150	75
N-07	2	25	125	63
N-08	2	5	25	13
N-09	2	20	100	50
N-10	2	10	50	25
N-13	2	10	50	25
N-14	2	10	50	25
N-15	2	7.5	38	19
N-16	2	20	100	50
N-17	2	5.4	27	14
N-18	2	2	10	5
P-01	2	2.3	12	6
P-02	2	3.4	17	9
P-03	2	56.3	282	141
P-04	2	2.3	12	6
W-01	2	2	15	8
W-02	2	15	75	38
W-03	2	5.4	27	14
W-04	2	3	15	8
W-05	2	4.7	24	12
W-06	2	2	10	5
W-07	2	2	10	5
W-08	2	17	85	43
W-09	2	15	75	38
W-10	2	10	50	25
W-11	2	20	100	50
W-12	2	7.5	38	19
W-13	2	7.5	38	19
W-14 <sup>1</sup>	2	46.9	352	117
W-15 <sup>1</sup>	3	30	225	75
W-16	2	5.4	27	14
W-17	2	5	25	13
W-18	2	2.6	13	7
W-19	2	3	15	8
W-20	2	20	100	50
W-21	2	2	15	8
W-22	2	2	15	8
W-23	2	7.5	38	19
W-24	2	10	50	25

Lift Station Number	Number of Pumps	Pump Size (horsepower)	Recommended Portable Generator Size (kW)	
			Duty and Standby Pumps in Operation	Duty Pump Only in Operation
W-25	2	45	225	113
W-26	2	20	100	50
W-27 <sup>1</sup>	3	2 @ 75, 1 @ 200	375 <sup>2</sup>	188
W-28	2	2	10	5
W-29	2	15.4	77	39

**Notes:**

<sup>1</sup> Denotes lift station with permanent on-site generator

<sup>2</sup> With largest pump out of service

**Project Definition – Scope of Work:**

This project involves the purchase of six diesel driven portable generators: three 100-kW generators and three 175-kW generators. Each generator would be trailer-mounted with an internal fuel tank for up to 24 hours of service. Additionally, software is included that will allow for remote monitoring of generator status.

Each 100-kW portable generator has the capacity to provide designed duty power to 74 of the 76 (97%), and full emergency power (duty + standby in operation) to 63 of the 76 (83%) lift stations currently without permanent onsite generators. Each 175-kW portable generator has the capacity to provide designed duty power to all (100%), and full emergency power to 72 of the 76 (95%) lift stations currently without permanent onsite generators. The proposed portable generators capabilities are presented in **Table 2**.

**Table 2: Proposed Portable Generator Capability**

Lift Station Number	Duty and Standby Pumps in Operation		Duty Pump Only in Operation	
	100-kW Generator	175-kW Generator	100-kW Generator	175-kW Generator
A-01		✓	✓	✓
A-02	✓	✓	✓	✓
A-03	✓	✓	✓	✓
A-04		✓	✓	✓
A-05		✓	✓	✓
A-06	✓	✓	✓	✓
A-07		✓	✓	✓
A-08	✓	✓	✓	✓
A-09	✓	✓	✓	✓
A-10	✓	✓	✓	✓
A-11	✓	✓	✓	✓
A-12	✓	✓	✓	✓
A-13	✓	✓	✓	✓

Lift Station Number	Duty and Standby Pumps in Operation		Duty Pump Only in Operation	
	100-kW Generator	175-kW Generator	100-kW Generator	175-kW Generator
A-14	✓	✓	✓	✓
E-01 <sup>1</sup>	✓	✓	✓	✓
E-02 <sup>1</sup>			✓	✓
E-03 <sup>1</sup>			✓	✓
E-04	✓	✓	✓	✓
E-05		✓	✓	✓
E-06 <sup>1</sup>				✓
E-07 <sup>1</sup>	✓	✓	✓	✓
E-08 <sup>1</sup>				✓
E-09	✓	✓	✓	✓
E-10	✓	✓	✓	✓
E-11	✓	✓	✓	✓
E-12	✓	✓	✓	✓
E-13	✓	✓	✓	✓
E-14		✓	✓	✓
E-15	✓	✓	✓	✓
E-16	✓	✓	✓	✓
E-17	✓	✓	✓	✓
E-18	✓	✓	✓	✓
E-19	✓	✓	✓	✓
E-20	✓	✓	✓	✓
E-22	✓	✓	✓	✓
E-23	✓	✓	✓	✓
N-01				✓
N-02		✓	✓	✓
N-03			✓	✓
N-04	✓	✓	✓	✓
N-05	✓	✓	✓	✓
N-06		✓	✓	✓
N-07		✓	✓	✓
N-08	✓	✓	✓	✓
N-09	✓	✓	✓	✓
N-10	✓	✓	✓	✓
N-13	✓	✓	✓	✓
N-14	✓	✓	✓	✓
N-15	✓	✓	✓	✓
N-16	✓	✓	✓	✓
N-17	✓	✓	✓	✓
N-18	✓	✓	✓	✓
P-01	✓	✓	✓	✓
P-02	✓	✓	✓	✓
P-03				✓

Lift Station Number	Duty and Standby Pumps in Operation		Duty Pump Only in Operation	
	100-kW Generator	175-kW Generator	100-kW Generator	175-kW Generator
P-04	✓	✓	✓	✓
W-01	✓	✓	✓	✓
W-02	✓	✓	✓	✓
W-03	✓	✓	✓	✓
W-04	✓	✓	✓	✓
W-05	✓	✓	✓	✓
W-06	✓	✓	✓	✓
W-07	✓	✓	✓	✓
W-08	✓	✓	✓	✓
W-09	✓	✓	✓	✓
W-10	✓	✓	✓	✓
W-11	✓	✓	✓	✓
W-12	✓	✓	✓	✓
W-13	✓	✓	✓	✓
W-14 <sup>1</sup>			✓	✓
W-15 <sup>1</sup>			✓	✓
W-16	✓	✓	✓	✓
W-17	✓	✓	✓	✓
W-18	✓	✓	✓	✓
W-19	✓	✓	✓	✓
W-20	✓	✓	✓	✓
W-21	✓	✓	✓	✓
W-22	✓	✓	✓	✓
W-23	✓	✓	✓	✓
W-24	✓	✓	✓	✓
W-25			✓	✓
W-26	✓	✓	✓	✓
W-27 <sup>1</sup>				✓
W-28	✓	✓	✓	✓
W-29	✓	✓	✓	✓

**Note:**

<sup>1</sup> Denotes lift station with permanent on-site generator

**Project Benefits:**

In preparation for impending storm events, it is City practice to mobilize available generators and staff throughout the transmission system to improve response time in the event of a power outage. Expansion of the available inventory will enhance the City’s ability to respond to such events, providing the following benefits:

- Strengthen lift station emergency power inventory
- Improve response capabilities during power outages
- Reduce operational impacts during power outages
- Reduce the risk of sanitary sewer overflows
- Provide confirmation of service via remote monitoring

**Project Schedule:**

Upon approval, the project will be fast tracked to ensure timely completion. Within 30 days of obtaining Department approval for the in-kind project proposal, a City purchase order is anticipated for issuance to procure the generator units. Delivery of the units are anticipated within 90 days thereafter. Upon delivery, each unit will be available for immediate deployment, following a one-day training session with the manufacturer. A proposed project schedule is presented in **Table 3**.

**Table 3: Proposed Project Schedule**

Task	Task Duration (Days)	Days from Approval
Generator Purchase Order Procurement	30	30
Delivery of Generators	90	120
Staff Training	1	121
Project Completion	-	121
Notice of Project Completion Submitted to FDEP	15	136

**Estimated Project Costs:**

Gold Coast JCB provided a quote for the proposed portable generator units. The current price of \$573,649.00 exceeds the required minimum in-kind project value of \$563,862.00. A breakdown of the proposed project costs is presented in **Table 4**. The current quote along with product specifications for each generator unit is included as **Attachment A**.

**Table 4: Project Cost Breakdown**

Item	Item Cost	Quantity	Total Cost
JCB-G125RS 100kW Generator	\$67,597.20	3	\$202,791.60
Pre-delivery / Prep	\$2,090.00	3	\$6,270.00
JCB-G220RS 175kW Generator	\$113,389.20	3	\$340,167.60
Pre-delivery / Prep	\$2,610.00	3	\$7,830.00
Unit Delivery	\$2,765.00	6	\$16,590.00
<b>Total</b>			<b>\$573,649.20</b>

On behalf of the City of Hollywood, we respectfully request that this in-kind project be approved for implementation pursuant to Exhibit A of the Order.

Very truly yours,

**HAZEN AND SAWYER, D.P.C.**



J. Philip Cooke, P.E.  
Vice President

CC:

- Jonathan Odjo, Environmental Manager, FDEP
- Vincent Morello, PE, Director, Public Utilities
- Jeff Jiang, PE, Assistant Director, Engineering
- Kassandra Myers, Assistant Director, Operations
- Phylis Shaw, CGFO, Deputy Director, Finance
- Giselle Hipolito, Engineering Support Services Manager, Engineering

# **Attachment A**

ORGANIZATION : City of Hollywood - Utility Department  
 ADDRESS : 2600 Hollywood Blvd  
 Hollywood, FL 33020



ATTN: Mr. Kelly Angeles

Date: May 8, 2025

WE ARE PLEASED TO PRESENT YOU WITH THE FOLLOWING **JCB PORTABLE GENERATORS PROPOSAL**, THANK YOU FOR THE OPPORTUNITY TO QUOTE A **(3) JCB G125RS 100kW & (3) JCB G220RS 175kW PORTABLE TRAILER MOUNTED GENERATORS** FOR FOR YOUR CONSIDERATION; THROUGH **SOURCEWELL PRICE LIST DISCOUNTS--Contract #020923-JCB Valid until 4/20/2027.**

MODEL/S:	JCB MSRP	USA Sourcewell Discount	Sourcewell NET Price	Unit Qty	Total Amount per Model
JCB - G125RS 100kW TRAILER MOUNTED GENERATOR Basic features included: 3' Pintle Ring (Military) Battery Tenders 7 Pin Electrics Towing Connection Fuel Capacity 132 Gl. Fuel Autonomy (ft-lb) 24 Hours Prime Power 100kW / 125kVA Single-Phase 240V / 3-Phase 208V/480V Noise Level (23ft@ 75% load) - 66dBA	\$75,108.00	10%	\$67,597.20	<u>3</u>	\$ 202,791.60
(Include: Full Tank Fuel & DEF and Training)	PRE-DELIVERY / PREP. G125kW:		\$2,090.00	<u>3</u>	\$ 6,270.00
JCB - G220RS 175kW TRAILER MOUNTED GENERATOR Basic features included: 3' Pintle Ring (Military) Battery Tenders 7 Pin Electrics Towing Connection Fuel Capacity 245 Gl. Fuel Autonomy (ft-lb) 24 Hours Prime Power 175kW / 220kVA Single-Phase 240V / 3-Phase 208V/480V Noise Level (23ft@ 75% load) - 70dBA	\$125,988.00	10%	\$113,389.20	<u>3</u>	\$ 340,167.60
(Include: Full Tank Fuel & DEF and Training)	PRE-DELIVERY / PREP. G220kW:		\$2,610.00	<u>3</u>	\$ 7,830.00

JCB LiveLink Advance Telematics; keeps you in complete control to let you monitor and manage your power generators remotely via a PC or Smartphone, LiveLink is included on all generators for 3 years STD; upgraded (2) additional years for a total of (5) years..

OTHER SPECS / WARRANTY:

PLEASE SEE THE ATTACHED SPECIFICATION SHEET FOR MORE INFORMATION ON THE PRODUCT.

UNIT/S FREIGHT & DELIVERY: \$2,765.00 6 \$ 16,590.00

**TOTAL CONTRACT SALE PRICE: \$ 573,649.20**

**Prices and Discounts are subject to change due to Manufacturer, Unit/s Availability, and New Tariffs starting June 1, 2025.**

THANK YOU FOR THE OPPORTUNITY TO EARN YOUR BUSINESS.

**MICHAEL CABRERA** (407) 768-5334  
 GOVERNMENTAL SPECIALIST IND. REPRESENTATIVE for

**Ronald Miller | GOLD COAST JCB**  
 12450 NW South River Drive  
 Medley, FL 33178 (305) 455-8305  
[ronald.miller@goldcoastjcb.com](mailto:ronald.miller@goldcoastjcb.com)





## JCB Certificate Of Warranty



Subject to the following provisions JCB and the Dealer shall as their sole warranty make good, or cause to be made good by repair or replacement (at JCB's option), free of charge to the buyer at the premises of the Dealer; any defects in JCB's products arising in JCB's opinion, from faulty material or workmanship which shall become apparent within the warranty period (as hereinafter defined)

### I. General

(a) This warranty applies only when the JCB product is maintained and operated under normal conditions and serviced according to JCB specifications and recommendations. This warranty does not extend to failures, defects or damage subsequently attributed to wear and tear, improper adjustment, neglect, misuse, operation beyond rated or recommended capacity, alterations or specifications, accident, use of lubricants not specified by JCB, or the use of parts or products other than those specified by JCB for required maintenance service or Repair

(b) The buyer must promptly notify the authorized JCB Dealer of any claim under this warranty specifying full particulars of the alleged defect, machine serial number, the hours worked, the date the machine was delivered to the buyer and the date the alleged defect became apparent, and if the authorized JCB Dealer shall so request; the buyer shall return at his cost all defective parts to the authorized JCB Dealer

(c) This warranty shall cease if:

(i) The JCB Machine Installation Checklist found in the operators manual shall not have been returned duly completed to the Dealer from whom the applicable JCB Product was purchased, leased or placed onto a capitalized rental fleet within seven (7) days of the delivery of the JCB Product to the buyer

(ii) Any name or number plates or other identification marks on the the JCB Product shall have been removed or defaced

(d) This warranty does not extend to parts, equipment and attachments not manufactured by JCB, but JCB shall, so far as possible, pass to the Buyer the benefit of any warranty of the manufacturer of such parts, equipment and attachments

(e) Some states do not allow the exclusion or limitations of limited warranties or consequential damages, so the limitations or exclusions may not apply to you

This warranty gives you specific legal rights and you may also have other rights that vary from state to state

### II. Warranty Period

(a) ) Machines (Backhoes, Loadall, Articulated Dump Trucks, Articulated Loading Shovels, Rough Terrain Forklifts and other machines specified in JCB's Machine Price List that are ride on product) will have a two year or 2000-hour standard manufacture warranty.

(b) RS generators and Electric Teletruk products carry a 2 year 3000-hour warranty

(c) 3-year or 3000 hour structural warranty to include Chassis, Boom, Dipper, Undercarriage, Mainframe, Masts, Loader Arms, Boom Base, Beam, and Kingpost. (Access product Structure 5 years and SSL/CTL/Teleskid only, Boom structure Lifetime warranty or 7000 hours to the original owner, no associated parts or labor)

(d) Where, within the warranty period of a JCB Product, defective attachment to be replaced with a new attachment, the warranty with respect to the new attachment shall not exceed the unexpired warranty portion of the warranty period of the original JCB Product

(e) Where, within the warranty period of a JCB Product, a defective part to be replaced with a new Part, the warranty with respect to the new Part shall not exceed the unexpired warranty portion of the warranty period of the original JCB Product

(f) The warranty period shall start:

(i) On the date of delivery to the first Buyer; or

(ii) In the case of lease or rental machines at the time when the Dealer first disposes of the JCB Product by way of lease or rental; or

(iii) In the case of machines previously used as demonstrators, upon initial sale, lease or rental of the machines or upon the reaching of 200 hours of operation, whichever shall occur first

### III Extended Warranty

JCB offers Customers the ability to purchase extended warranty for new JCB Product within the first 12 months (Fastrac only 6 months) of retail. This warranty must be registered by an authorized JCB Dealer via the Yellow Shield Website. The Customer must retain a copy of the Extended Warranty Certificate for their records and present it to an authorized JCB Dealer at the time of failure within the extended warranty period.

THE EXPRESS WARRANTY HEREIN IS IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTY, CONDITION OR GUARANTEE BY JCB OR THE DEALER WHETHER STATUTORY OR OTHERWISE, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EXCEPT FOR THE EXPRESS LIABILITY UNDER THIS EXPRESS WARRANTY NEITHER JCB NOR THE DEALER SHALL HAVE ANY OBLIGATION OR LIABILITY FOR ANY INCIDENTAL, CONSEQUENTIAL OR OTHER LOSS, DAMAGE OR INJURY RESULTING DIRECTLY OR INDIRECTLY FROM THE SALE, LEASE, RENTAL, OR OTHERWISE USE OF JCB PRODUCTS OR RESULTING FROM ANY DEFECTS IN ANY JCB PRODUCTS.

# **JCB - 100kW Generator Specifications**

# GI25RS | Rental Diesel Generator



DIESEL GENERATOR

T4F

## WEIGHT AND DIMENSIONS - STATIC

Length	in	126
Width	in	43
Height	in	83
Weight*	lbs	6615

\*Standard build with all fluids including fuel

## WEIGHT AND DIMENSIONS - TRAILER MOUNTED

Length	in	189
Width	in	74
Height	in	105
Weight*	lbs	8115

\*Standard build with all fluids including fuel

## ELECTRICAL

Frequency (Hz)	Phases	Voltage (V)	Prime Rating			Rated Speed (RPM)	Emissions
			kVA	kW	Amps		
60	3	480/277V	125	100	151	1800	T4F
60	3	208/120V	125	100	347	1800	T4F
60	1	240V	66	66	275	1800	T4F

## POWER FACTOR

3 Phase	0.8
1 Phase	1

## ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS

**Prime:** This rating is for the supply of continuous electrical power, at variable load (70% average), in lieu of commercially purchase power. There is no limitation on the annual hours of operation and 10% over load power can be supplied for 1 hour in 12.

Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO3046

## AIR SYSTEM

Limiting Ambient Temperature	°F	60Hz	124
Radiator Duct Allowance	In H <sub>2</sub> O		TBC
Radiator Cooling Airflow	cfm		10594

## EXHAUST SYSTEM

Maximum Temperature 100%	°F	60Hz	TBC
Exhaust Gas Flow 100%	lbs/hr		1387
Maximum Allowed Back Pressure	In H <sub>2</sub> O		100

## FUEL SYSTEM

Diesel Specification	Grade	ASTM D975 (2D)	
Standard Fuel Tank Capacity	(US) g	132	
Fuel Tank Material	Type	Steel	
Fuel Tank Construction		Double Skinned	

## FUEL CONSUMPTION

100% Load Prime	(US) gph	60Hz	7.16
75% Load Prime	(US) gph		5.42
50% Load Prime	(US) gph		3.70

## DEF SYSTEM

DEF Specification		ISO 22241-1	
Standard Capacity Tank	(US) g	4.5	

## DEF CONSUMPTION

100% Load Prime	(US) gph	60Hz	0.25
75% Load Prime	(US) gph		0.19
50% Load Prime	(US) gph		0.13

## ENGINE

<b>1800 RPM</b>			
Net Output Rating (PRP)	kW	106	
Net Output Rating (Standby)	kW	117	
Manufacturer and Model		JCB JCB 448 TA4-129	
Fuel		Diesel	
Injection		Common Rail	
Aspiration		Turbo Charged	
Cylinders		4	
Bore and Stroke	in	4.2 x 5.3	
Displacement	in <sup>3</sup>	291.0	
Cooling		Water	
Engine Oil Specification		API CH4-SAE 10W40	
Compression Ratio		16.7 : 1	
Engine Oil Capacity	(US) g	4.00	
Coolant Capacity	(US) g	4.2	
Governor		Electronic	
Engine Oil Consumption	(US) gph	0.004	
Exhaust After treatment	SCR	●	
	DOC	x	
	DPF	x	

## AMBIENT CLEARANCE

Upper Temperature Limit	°F	122	
Lower Temperature Limit	°F	23	

## SOUND PRESSURE

LpA (23ft & 100% load)	dB(A)	60Hz	69
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## ELECTRICAL

AVR DSR	●
AVR DER1 with 3 phase sensing	Δ
Total + Winding Protection for Harsh & Saline Environments	●
MAUX – High Motor Start Auxiliary Winding	●
Anti-Condensation Heater	●
3 Pole Moulded Case Circuit Breaker	●
Earth Leakage Protection (Switchable)	Δ
Preparation for Earth Spike	●
Emergency Stop Button (Control Panel)	●
120V Charger & Heater Supply Sockets	●
GFCI 120V Small Power Sockets	●
50A Shore Power Sockets	●
Camlock Connections	●
Terminal Safety Microswitches	●
Standard: ● Not Available: x Optional: Δ	

## BATTERY FEATURES

Battery Isolator	●
Battery Type	Maintenance Free Lead Acid
Battery Charger – 10A	●

## STARTING SYSTEM

Battery Capacity	Ah	1000
Number of Batteries		1
Auxiliary Voltage	V	12

## ALTERNATOR ECP34-1L/4A

Poles	4
Insulation	Class H
Enclosure	IP23
Exciter System	MAUX Excitation
Voltage Regulator	AVR - DSR
Steady State Voltage Regulation	+/- 1%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan
Coating	Total Protection +
Multi Position Voltage Selection Switch	Δ
Standard: ● Not Available: x Optional: Δ	

## CONTROL AND COMMUNICATION

DSE 7310 (Non Sync) Controller	●
DSE 8610 (Sync) Controller (>220 with DSE8003 colour screen)	Δ
Deif AGC150 (Non Sync) Controller	Δ
Deif AGC4 (Sync) Controller with TDU7 Touchscreen Display	x
Analogue Load Share	Δ
External USB Programmable Port	Δ
JCB LiveLink for Power	●
High Engine Temperature Shutdown	●
Low Oil Pressure Shutdown	●
Low Coolant Level Alarm	●
Leak Detection Alarm	●
Analogue Hour Counter	●
Bus Live Warning Lamp	●
Audible Alarm Sounder	●
Panel Mounted Voltage Trimpot	Δ
Standard: ● Not Available: x Optional: Δ	

## MECHANICAL

Tropical Cooling Pack	●
Heavy Duty Air Filter	●
Radiator Fan Guards	●
Hot Component Guards	●
Manual Oil Drain Pump	●
Water Jacket Heater	●
Fuel Pre-Filter with Separator	●
Racor water/fuel separator	Δ
Racor change over water/fuel separator	x
Fuel Level Sender	●
3 Way Fuel Valve	●
Exhaust Silencer including Aftertreatment	●
Fuel Tank Access Plate	●
External Fuel and DEF Fill Point	●
Remote DEF Tank Connection	Δ
Standard: ● Not Available: x Optional: Δ	

## TRAILER - Optional

DOT Approval	●
LED Lights	●
Electric Brakes	●
Access Platform Fenders	●
3" Pintle Eye Hitch	●
7 Pin Towing Electrics	●
Tie Down Points	●
Heavy Duty Jack	●
Fire Extinguisher	Δ
Black Paint Finish (Trailer & Rims)	●
Standard: ● Not Available: x Optional: Δ	

## CANOPY

Lockable Maintenance Access Doors	●
Control Panel Viewing Window	●
Single Lift Point	●
Fork Lift Pockets	x
Fluid Containment with Drain Point	●
4 Point Tie Down	●
High Density Fire Retardant Foam	●
White Paint	●
Other Paint Finishes	Δ
Heavy Duty Rental Base	●
Zintec Steel Canopy	●
Integrated High Level Access Ladder	x
Self-Latching Cable Access Points	●
Door Retention Catches	●
External Emergency Stop Button	●
Waterproof Document Holder	●
Standard: ● Not Available: x Optional: Δ	

# **JCB - 175kW Generator Specifications**

# G220RS | Rental Diesel Generator



**DIESEL GENERATOR**

**T4F/Stage V**

## WEIGHT AND DIMENSIONS - STATIC

Length	in	156
Width	in	61
Height	in	89
Weight*	lbs	11000

*\*Standard build with all fluids including fuel*

## WEIGHT AND DIMENSIONS - TRAILER MOUNTED

Length	in	222
Width	in	88
Height	in	114
Weight*	lbs	12720

*\*Standard build with all fluids including fuel*

## ELECTRICAL

Frequency (Hz)	Phases	Voltage (V)	Prime Rating			Rated Speed (RPM)	Emissions
			kVA	kW	Amps		
60	3	480/277V	219	175	263	1800	T4F/Stage V
60	3	208/120V	219	175	608	1800	T4F/Stage V
60	1	240V	85	85	354	1800	T4F/Stage V

## POWER FACTOR

3 Phase	0.8
1 Phase	1

## ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS

**Prime:** This rating is for the supply of continuous electrical power, at variable load (70% average), in lieu of commercially purchase power. There is no limitation on the annual hours of operation and 10% over load power can be supplied for 1 hour in 12.

Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO3046

## AIR SYSTEM

Limiting Ambient Temperature	°F	60Hz	122
Radiator Duct Allowance	In H <sub>2</sub> O		0.80
Radiator Cooling Airflow	cfm		1695 l

## EXHAUST SYSTEM

Maximum Temperature 100%	°F	60Hz	927
Exhaust Gas Flow 100%	lbs/hr		1225
Maximum Allowed Back Pressure	In H <sub>2</sub> O		88

## FUEL SYSTEM

Diesel Specification	Grade	ASTM D975 (2D)	
Standard Fuel Tank Capacity	(US) g	245	
Fuel Tank Material	Type	Steel	
Fuel Tank Construction		Double Skinned	

## FUEL CONSUMPTION

100% Load Prime	(US) gph	60Hz	13.5
75% Load Prime	(US) gph		10.2
50% Load Prime	(US) gph		7.4

## DEF SYSTEM

DEF Specification		ISO 22241-1	
Standard Capacity Tank	(US) g	18	

## DEF CONSUMPTION

100% Load Prime	(US) gph	60Hz	0.95
75% Load Prime	(US) gph		0.71
50% Load Prime	(US) gph		0.52

## ENGINE

<b>1800 RPM</b>			
Net Output Rating (PRP)	kW	179	
Net Output Rating (Standby)	kW	224	
Manufacturer and Model		Volvo TAD883VE	
Fuel		Diesel	
Injection		Common Rail	
Aspiration		Turbo Charged	
Cylinders		6	
Bore and Stroke	in	4.33 x 5.31	
Displacement	in <sup>3</sup>	470.0	
Cooling		Water	
Engine Oil Specification		API CH4-SAE 10W40	
Compression Ratio		17.5 : 1	
Engine Oil Capacity	(US) g	7.13	
Coolant Capacity	(US) g	13.5	
Governor		Electronic	
Engine Oil Consumption	(US) gph	0.05	
Exhaust After treatment	SCR	●	
	DOC	●	
	DPF	●	

## AMBIENT CLEARANCE

Upper Temperature Limit	°F	122	
Lower Temperature Limit	°F	23	

## SOUND PRESSURE

LpA (23ft & 100% load)	dB(A)	60Hz	67
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## ELECTRICAL

AVR DSR	●
AVR DER1 with 3 phase sensing	Δ
Total + Winding Protection for Harsh & Saline Environments	●
MAUX – High Motor Start Auxiliary Winding	●
Anti-Condensation Heater	Δ
3 Pole Moulded Case Circuit Breaker	●
Earth Leakage Protection (Switchable)	Δ
Preparation for Earth Spike	●
Emergency Stop Button (Control Panel)	●
120V Charger & Heater Supply Sockets	Δ
GFCI 120V Small Power Sockets	Δ
50A Shore Power Sockets	Δ
Camlock Connections	Δ
Terminal Safety Microswitches	●
Standard: ● Not Available: x Optional: Δ	

## BATTERY FEATURES

Battery Isolator	●
Battery Type	Maintenance Free Lead Acid
Battery Charger – 10A	Δ

## STARTING SYSTEM

Battery Capacity	Ah	800
Number of Batteries		2
Auxiliary Voltage	V	24

## ALTERNATOR ECO38-2S/4A

Poles	4
Insulation	Class H
Enclosure	IP23
Exciter System	MAUX Excitation
Voltage Regulator	AVR - DSR
Steady State Voltage Regulation	+/- 1%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan
Coating	Total Protection +
Multi Position Voltage Selection Switch	Δ
Standard: ● Not Available: x Optional: Δ	

## CONTROL AND COMMUNICATION

DSE 7310 (Non Sync) Controller	●
DSE 8610 (Sync) Controller (>220 with DSE8003 colour screen)	Δ
Deif AGC150 (Non Sync) Controller	Δ
Deif AGC4 (Sync) Controller with TDU7 Touchscreen Display	Δ
Analogue Load Share	Δ
External USB Programmable Port	Δ
JCB LiveLink for Power	●
High Engine Temperature Shutdown	●
Low Oil Pressure Shutdown	●
Low Coolant Level Alarm	●
Leak Detection Alarm	Δ
Analogue Hour Counter	Δ
Bus Live Warning Lamp	●
Audible Alarm Sounder	●
Panel Mounted Voltage Trimpot	Δ
Standard: ● Not Available: x Optional: Δ	

## MECHANICAL

Tropical Cooling Pack	●
Heavy Duty Air Filter	●
Radiator Fan Guards	●
Hot Component Guards	●
Manual Oil Drain Pump	Δ
Water Jacket Heater	Δ
Fuel Pre-Filter with Separator	●
Racor water/fuel separator	Δ
Racor change over water/fuel separator	x
Fuel Level Sender	●
3 Way Fuel Valve	Δ
Exhaust Silencer including Aftertreatment	●
Fuel Tank Access Plate	●
External Fuel and DEF Fill Point	●
Remote DEF Tank Connection	Δ
Standard: ● Not Available: x Optional: Δ	

## TRAILER - Optional

DOT Approval	●
LED Lights	●
Electric Brakes	●
Access Platform Fenders	●
3" Pintle Eye Hitch	●
7 Pin Towing Electrics	●
Tie Down Points	●
Heavy Duty Jack	●
Fire Extinguisher	Δ
Black Paint Finish (Trailer & Rims)	●
Standard: ● Not Available: x Optional: Δ	

## CANOPY

Lockable Maintenance Access Doors	●
Control Panel Viewing Window	●
Single Lift Point	●
Fork Lift Pockets	x
Fluid Containment with Drain Point	●
4 Point Tie Down	●
High Density Fire Retardant Foam	●
Yellow Paint	●
Other Paint Finishes	Δ
Heavy Duty Rental Base	●
Zintec Steel Canopy	●
Integrated High Level Access Ladder	●
Self-Latching Cable Access Points	●
Door Retention Catches	●
External Emergency Stop Button	●
Waterproof Document Holder	Δ
Standard: ● Not Available: x Optional: Δ	