



سَرَسْرَهُ ثَمُ: FNK-K(T)/FNK/IUL/2017/191

وسرا المعرور موجع ع وفر مرده

0/27

400 مَوْ وَجُوْدُ عَمْرُهُمْ مُعْرَمُونُ مُوْدُدُ وَدُوْدُ وَدُوْدُ وَدُوْدُ وَمُوْدُ وَكُوْدُ وَكُوْدُ وَكُوْد دِ مُعْرُدُوْرُ مُعْرُدُ وَمِدُدُوْ دُرُوْدُ وَدُرُوْدُ وَدُرُودُ وَكُوْدُ مُعْرَدُ مُعْرَدُ وَجُوْدُ وَكُوْدُ ي د ه ې ې ي .

S/N:	Description	Brand	Unit	Qty
1	400 kW prime rated Diesel Engined Genarator set with parameters: 0.8 P.F, 415 Volts, 3 Phase, 4 Wires, 50 Hz at 1500 r.p.m.		1	Nos
	The Generator set shall be powered by a Cummins engine origin (UK, USA) or assembled/manufacured by an Original Cummin's Licenced OEM manufacturer or assembler.		-	
	The engine must produce a mechanical power output (kW _m) which should meet the required electric power (kW _e) of 400 KW and must be coupled with a 400 kW stamford Altenator with pre-installed Droop CT, with remote mounted control panel.			
	The controller should be Deepsea model: 8810 engine controller. Motorised TP, 800 A, ACB c/w UVT Coil AC 230 V, ("MERLIN GERIN") or equivalent.			
	Engine to be complete with following auxilliary items:			
	Heavy electrical flywheel			
	SAE flywheel housing			
	• Air filters, Lubricating Oil Filters, Fuel Filters and all other such filter required for operation of the engine			
	Low lubricating oil pressure switch			
	High engine temperature switch			





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• lub oil sender		1	
Water Temperature Sender			
• All necessary items to run and to protect the			
Starting equipment fitted to engine,			
 24 Volt charging altenator (Brushless) 			
 24 Volt starting motor 			
• Fuel Shut-off solenoid			
• Heavy duty lead acid batteries, supplied in a dry charged condition			
Governing System			
The engine to be fitted with a close tolerance Cummins Electronic Governing system, which should include efc, actuators, magnetic pickups, etc, including wiring			
Cooling Equipment			
Cooling equipment compromising a heavy- duty tropical radiator, together with pusher type cooling fan and guards to be fitted. The radiator core should be elecroplated with silver solder tin plated to prevent early failure due to corrosion. Coupon plated radiators are acceptable, the radiator has to be mounted on the vibration mounts and it should have enough strength to with stand the radiator.			
• Exhaust system			
450 mm of stainless steel below type flexible exhaust, together with suitable flanges and fittings shall be supplied for each silencer.			
• Alternator			
The alternator shall be brushless revolving type altenator, having class H insulation on both the stator and field windings. It shall be built and rated to BS 5000, tropically impregnated with voltage regulation being in the order of +/- 1.5% from no load to full load under the steady state conditions assuming a speed variation not exceeding 4% on the engine. Anti-Condensation Coil to be fitted in the Alternator.			
 Generator arrangement and drive 			
	• All necessary items to run and to protect the engine • Starting equipment fitted to engine, consisting of: • 24 Volt charging altenator (Brushless) • 24 Volt starting motor • Fuel Shut-off solenoid • Heavy duty lead acid batteries, supplied in a dry charged condition • Governing System The engine to be fitted with a close tolerance Cummins Electronic Governing system, which should include efc, actuators, magnetic pickups, etc, including wiring • Cooling Equipment Cooling Equipment Cooling equipment compromising a heavyduty tropical radiator, together with pusher type cooling fan and guards to be fitted. The radiator core should be elecroplated with silver solder tin plated to prevent early failure due to corrosion. Coupon plated radiators are acceptable, the radiator has to be mounted on the vibration mounts and it should have enough strength to with stand the radiator. • Exhaust system 450 mm of stainless steel below type flexible exhaust, together with suitable flanges and fittings shall be supplied for each silencer. • Alternator The alternator shall be brushless revolving type altenator, having class H insulation on both the stator and field windings. It shall be built and rated to BS 5000, tropically impregnated with voltage regulation being in the order of +/- 1.5% from no load to full load under the steady state conditions assuming a speed variation not exceeding 4% on the engine. Anti-Condensation Coil to be fitted in the Alternator.	* Water Temperature Sender * All necessary items to run and to protect the engine * Starting equipment fitted to engine, consisting of: * 24 Volt charging altenator (Brushless) * 24 Volt starting motor * Fuel Shut-off solenoid * Heavy duty lead acid batteries, supplied in a dry charged condition * Governing System The engine to be fitted with a close tolerance Cummins Electronic Governing system, which should include efc, actuators, magnetic pickups, etc, including wiring * Cooling Equipment Cooling equipment compromising a heavyduty tropical radiator, together with pusher type cooling fan and guards to be fitted. The radiator core should be elecroplated with silver solder tin plated to prevent early failure due to corrosion. Coupon plated radiators are acceptable, the radiator has to be mounted on the vibration mounts and it should have enough strength to with stand the radiator. * Exhaust system	• Nater Temperature Sender • All necessary items to run and to protect the engine • Starting equipment fitted to engine, consisting of: • 24 Volt charging altenator (Brushless) • 24 Volt starting motor • Fuel Shut-off solenoid • Heavy duty lead acid batteries, supplied in a dry charged condition • Governing System The engine to be fitted with a close tolerance Cummins Electronic Governing system, which should include efe, actuators, magnetic pickups, etc, including wiring • Cooling Equipment Cooling equipment compromising a heavyduty tropical radiator, together with pusher type cooling fan and guards to be fitted. The radiator core should be elecroplated with silver solder tin plated to prevent early failure due to corrosion. Coupon plated radiators are acceptable, the radiator has to be mounted on the vibration mounts and it should have enough strength to with stand the radiator. • Exhaust system 450 mm of stainless steel below type flexible exhaust, together with suitable flanges and fittings shall be supplied for each silencer. • Alternator The alternator shall be brushless revolving type altenator, having class H insulation on both the stator and field windings. It shall be built and rated to BS 5000, tropically impregnated with voltage regulation being in the order of 4/- 1.5% from no load to full load under the steady state conditions assuming a speed variation not exceeding 4% on the engine. Anti-Condensation Coil to be fitted in the Alternator.





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	The simplex type base plate is of heavy duty rolled steel constructed, bolted and electrically welded, drilled on the underside to allow the fitting of foundation bolts. The engine and the alternator are to be mounted on a base plate and vibration mounts to be mounted underside of the base plate. The vibration mounts are to be supplied as loose item.	·	
	• Finishing		
	After assembling the genset zinc coated self- etching primer should be applied to the complete set.		
1.2	Fuel system	1	Nos
	A fuel day tank of 12 hours capacity complete with level indicator, drain plug, filler, fuel return with fuel outlet connections and a fuel filter fitted with outlet connection is to be mounted. These mounts are are to be suuplied as loose item. All necessary fittings to be supplied in conformity with fuel flow diagram.		
1.3	Factory testing	1	No
	The generator should be fully tested at the manufacturer workshop in the presence of client/apointees to check the ratings, overload, functional tests on a dummy load prior to dispatch <i>in case the bidder is unable to provide factory test</i> as required the bidder shall provide an extended warranty of one extra year than mentioned in iteme no 10 of this document.		
1.4	Literature and drawings consisting of :	1	Lot
	1No x Manual on How to handle the generation equipment 1 Nos x Electrical wiring diagram		
	1 No x Engine operation and maintenance manual		
	• 1 No x Engine parts catalogue		
	• 1 No x Generator parts catalogue		
	• 1 No x Generator operation and maintenace manual		
	1 No x Generator AVR manual		
	• 1 No x Governor control unit manual		



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	• 1 No x Engine shop manual		1	
1.5	Accessories			
	The Components shall meet the British Standard and ISO standards. Items are for the above mentioned generator sets.			
1.5.1	Primary silencer barrel(to match engine exhaust)		1	Nos
1.5.2	Secondary silencer barrel(to match engine exhaust)		1	Nos
1.5.3	3m Exhaust pipe dia(to match engine exhaust)		4	Nos
1.5.4	Elbows having dia (to match the engine exhaust)		3	Nos
1.5.5	Flanges having dia (to match the engine exhaust)		8	Nos
	Warranty			
	Generator set should carry a warranty of one year from the date of commissioning the equipment.			e

رْسُرْرُءُسُرُو حَرُسُونِ

مرور مرور من المرابع ا

• رُدُ: 60 بُرِسْ



ביתע עת ביתושים לכשל

- - - مُرَام وَمُرَارُوسُ وَرَدُرُمُ (وَوُسُ): 25 بُرِسُونُ

25 × (בילים המל לעל ברולה / להלים ברולה)

مُعرفه مراء ورزوه ومردم ومردم وورسرة دور ما براء عمر عمرومة

כמל של על ב אלעם אל

ورك المركز المركز المركز المركز

جربر بن سر سر سر من من المال FNK-K(T)/FNK/IUL/2017/191

رُور وَرُور اللهِ اللهِ

روُودَى دُوُورُدُ

£5

عَدْ رَوْوَرُرْ رَوْجَرِوُر وَسِرِ 26 عِسَوْهُم 2017 وَ رَسْرُكُمْ فَرُوْرُدُ 12:00 كَدِ وَسَرَمَا كَوَرُبُوسُوسُ وِجِعَدْ (فِيرَ عُرْ يُورُونُ * * وَمُرْ وُرُورُ وَوَلُ كُورُدُ عُرُبُ لَا يُرْدُونُهِ وَوَسُمُونُو مُرْدُونُ وَرُودُونُ 2017 وُ رُسُرُونِ مُرْوَرُهُ 12:00 رُسُ رُسُونُ رِسُ رُورُونُ رُورُونُ رُورُونُ

كُوسْ وَيْرُو بِرِسْرٌ عُسْءَ بِرِ رُسْرٌ وَبِرِسْ وَبِرِسْ وَبِرِسْ وَبِرِسْ وَبِرِسْ وَبِرِسْ وَمِرْدُو بَرَوْمَ <u>tender@fenaka.com.mv</u> رَبْرُ رِدُورِدُودُ א מחלת מינים.





وسرا المعروب موسر ورجع ووراده

26 مَرْصِ دُوْرُدُورُو وَ 2017 14 ياسُوْصَدِ 1017