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THE FOLLOWING HFO FIRED GENERATOR SETS ARE AVAILABLE FOR SALE WITH US WITH IMMEDIATE DELIVERY:

2 Nos. - 6.2 MW each, NIGATA (2001/02) make, type 18V32CLX HFO fired Generator Sets, having the following technical specifications:

BRIEF INFORMATION OF POWER PLANT:

2 X 6.2 MW "NIIGATA-JAPAN" make HFO DG Sets comprising of "NIIGATA" Engine Model 18V32CLX, Bore 320 MM, Stroke 420 MM, 18 Cylinder, 600 RPM, 4 Stroke Cycle, Turbo Charged, Compressed Air Start, Suitable for HFO Operation and directly coupled to 7750 KVA "TOYO DENKI-JAPAN" make Synchronous Generator having 600 RPM, AC, 3 Phase, 50Hz, 0.8 P.F, 6600 Volts, Continuous rated, IP22 Enclosure including Excitation System.

ENGINE DETAILS:

Make	:	Niigata – Japan
Type	:	18V32CLX
Capacity	:	6.2 MW
No. of Cylinders	:	18
Speed	:	600 RPM
Bore	:	320mm
Stroke	:	420mm
Fuel	:	HFO

ALTERNATOR DETAILS:

Make	:	TDPS
Year of make	:	2001/2002
Capacity	:	7750 kVA
Speed	:	600 RPM
Voltage	:	6600 V
Current	:	677 A
Connection	:	Star
No. of Phases	:	3
No. of Poles	:	10

Insulation Class : F
 Frequency : 50 Hz
 Enclosure : IP22
 Coolant Temp. : 45°C
 Excitation Voltage : 162 V
 FLD. Current : 021 A

All Mechanical & Electrical Controls and Auxiliaries are included in the Scope of Supply such as:

1. Exhaust System & Stacks.
2. Cooling Water System.
3. Lubricating Oil System.
4. Fuel Oil System & Viscosity Controller.
5. Intake Air & Exhaust Gas System.
6. HFO Circulation Pumps.
7. HFO Line Heaters.
8. Generator Control Panels & Breakers.
9. Compressed Air System with Drive.
10. Instrumentation as installed.
11. Pipe Lines for Fuel, Exhaust & Water as installed.
12. HFO Settling Tank, Clean Tank & Sludge Tank.
13. Complete Circuit as installed.
- 14. Year of Manufacture & Installation: 2001/02**
- 15. Hours used:**
 - **DG1=3730 Hours.**
 - **DG2=3759 Hours.**
16. The DG Sets are regularly being maintained such as:
 - Moisture Drawing from all Air System on Daily basis.
 - Blow through work every day.
 - Turning Gear Running every day.
 - Diesel Auto Filter cleaning work weekly once.
 - Checkup of Battery & Charger every Month.
 - Settling Tank and Cleaning Tank Heaters maintained Weekly.
 - No Load Trial being taken every 3 months.

SR. NO	DESCRIPTION EQUIPMENT	TYPE	SUPPLIER NAME	SPECIFICATION
01	NIIGATA ENGINE 18V32CLX		NIIGATA	RATED OUTPUT 6.2 MW, CYL BORE 320 MM, PISTON STROKE 420 MM, 18 CYLINDER, 600 RPM, WT 63.5 TON
	OIL PAN			
	CRANK SHAFT			
	FLYWHEEL			
	TURNING DEVICE			

	CRANK CASE			
	DOOR CRANK CASE			
	CYLINDER LINER			
	PISTON			
	CONNECTING ROD			
	CAMSHAFT * A PL			
	CAMSHAFT * B PL			
	CAM GEAR DAMPER			
	GEAR CASE			
	BLANK FLANGE			
	COVER CAM CASE			
	TIMING GEAR			
	CAM SHAFT COVER			
	IDLE GEAR			
	GOVERNOR DRIVING GEAR			
	STARTING AIR PILOT VALVE			
	MAIN STARTING VALVE			
	PUSH ROD			
	ROLLER GUIDE IE			
	FUEL INJTN PUMP ROLLER GUIDE			
	CYLINDER HEAD			
	ACCESSORIES			
	INTAKE VALVE (3214-1?)			
	EXHAUST VALVE FRONT			
	EXHAUST VALVE BACK			
	STARTING			

	VALVE			
	STOPPER*SV			
	INDICATOR COCK			
	SFV PLUG ASSY			
	ROCKER ARM			
	HEAD COVER			
	INLET PIPE			
	EXHAUST MANIFOLD			
	TURBOCHARG ER	TYPE- NR34/ R	NIIGATA MAN B&W	MAX SPEED 25400 RPM, MAX. PRESS 4.0, MAX. PERMI. TURBINE INLET TEMP 650 DEG. C.
	EXHAUST DUCT			
	COOLING WATER PUMP			
	LUBRICATING OIL PUMP			
	ACCESSORIES			
	LAY SHAFT*FO			
	CONTROL VALVES			
	GOVERNOR LINK			
	INJECTION PUMP			
	PIPING *FO			
	UNION			
	PIPING*FV CO			
	PIPING*SA			
	PIPING*LO			
	PIPING*TC. LO			
	PIPING*LO*FIP			
	PIPING*CW			
	INJECTION VALVE			
	GOVERNOR	WOOD WARD		
2	JACKET WATER COOLER (JWC) TYPE M60 - MGS10		KUBOTA APV	TYPE M60-MGS10, FRAME SIZE 1, PLATE NO 80

3	TEMP CONTROL VALVE FOR JWC	TYPE SFH6 SIZE 200	FUSHT MAN CO LTD.	FLOW 210 M3/HR, WT 245KGS, WORKING TEMP RANGE 87 DEG C. INLET PRESSURE 10 KGF/CM2
4	CENTRAL COOLER	TYPE A085 MGS7	KUBOTA APV	W/ PRESSURE 0.5MPA, T/P 0.75MPA HEAT TRANSFER SURFACE 144 M2, WT 1560KGS, VOLUME 240L MATERIAL PLATE/GASKET : TITANIUM/NBR
5	LUBE OIL COOLER	TYPE M92 - MGS10 P3-146545	KUBOTA APV	PLATE NO 141, FRAME SIZE 2, WT 2240KGS HEAT SURFACE AREA 127.8M2,
6	LUBE OIL FILTER 150MM DIA	TYPE 6.61 GR 15 DN 150	MISUZO MACH. CO. LTD.	FLOW 141.3M3/HR, FLUID TEMP MAX. 70 DEG C., WT 410 KGS PRESSURE 0.8MPA, BACK FLUSHING POINT 0.06MPA
7	TEMP CONTROL VALVE FOR LUBE OIL	TYPE SFH4, SIZE 150M M	FLUSHIM AN CO. LTD.	WORKING TEMP RANGE 50 DEG. C., FLOW 129 M3/HR, WT 215 KGS INLET PRESSURE 10KGF/CM2,
8	PRESSURE REGULATING VALVE(LUBE)	TYPE MD 2P SIZE 80MM	VENN CO. LTD	INLET PRESSURE 0.6 MPA, BLOWDOWN PRESSURE 0.06MPA
9	LUBE OIL PRIMING PUMP	TYPE DH - M65	DAITO PUMP KOGYO CO LTD	CAP 17 M3/HR, HEAD 0.3MPA, 5.5KW, 1000RPM
10	LUBE OIL PURIFIER	TYPE SJ 40F	MITSUBISHI KAKOKI KAISHA	CAP 4000L/HR, TEMP 85 DEG C.,11KW, 1440 RPM, BOWL SPEED 7300 WT 880KGS, CONTROL PANEL FSC 1A, OIL HEATER 66KW, SLUDGE PUMP TYPE NY-15, CAP 4600L/HR, 20M HEAD
11	LUBE OIL INDICATION FILTER	TYPE TNI-150-80W CG023 00	TAISEIKO GYO CO. LTD	CAP 110 M3/HR, FILTRATION 80W, FLUID SAE # 40, TEMPM 55 DEG C. WORK/PRESSURE 10KGF/CM2, FIL/AREA 18000CM2, WT 210KGS PRESSURE DROP 0.35 KGF/CM2

12	FOP LUBRICATING UNIT			A) PRIMARY PRESSURE CONTROL VALVE TYPE MD 2P SIZE 20MM DRG NO P9826022 A, VENN CO. LTD B) KOL STRAINER PDW30L/1-X, PUMP CAPACITY 0.5M3/HR, WT 24KGS FILTERING AREA 691X2 CM2, FILTRING LIMIT 30 UM, NOR./P 0.7MPA KANAGAWA KIKI KOGYO CO. LTD C) PUMP TYPE DH - M15, 0.7 M3/HR, 7KG/CM2, 0.75KW, 1000RPM DAITO PUMP KOGYO CO. LTD
13	HEAVY FUEL OIL LINE HEATER	TYPE SFL - 60	DAIEI DENNETS U KOGYO CO.	CAPACITY 415V-30-60KW, ELEMENT 240V-3.33KW X 18
14	DIESEL LINE HEATER	MODE L SFL-30	DAIEI DENNETS U KOGYO CO.	CAPACITY AC 415V, 3 PHASE, 50KW, ELEMENT 240V, 2.0KW X 15
15	FUEL OIL MAIN FILTER	TYPE 6.6 GR 05 DN 50	MISUZU M/CNARY CO LTD	FLOW 5.8 M3/HR, VISCOSITY 380 CST AT 50 DEG C. PRESSURE 0.8MPA BACK FLUSHING POINT 0.06MPA MESH SIZE 10 UM, 16 CANDLES MATERIAL SUS 316,
16	FUEL OIL INDICATION FILTER	PFC/L-N75SL/2-X	KANAGAWA KIKI KOGYO CO	PUMP CAP 3.5 - 4 M3/HR, FILTRING AREA 1925 X 2 CM2, F/LIMIT 75 UM
17	FLOWMETER FOR DIESEL/HFO		OVAL CORPORATION	40MM, FLOW RATE 260 TO 8000L/HR MAX, TEMP 100 TO 120 DEG C., PRESSURE 0.98 TO 1.96 MPA
18	STRAINER FOR FLOW METER		OVAL CORPORATION	40MM,
19	FUEL OIL FEED PUMP	TYPE DHL M40	DAITA PUMP KOGYO CO LTD	CAP 3 M3/HR, HEAD 0.3 MPA, 2.2KW, 1000RPM,
20	HEAVY FUEL OIL CIRCULATION PUMP	TYPE DHL M50	DAITA PUMP KOGYO CO LTD	CAP 5.8 M3/ HR, HEAD 0.5 MPA, 2.2 KW, 950 RPM,
21	ACCUMULATOR	TYPE V32	NIIGATA ENGINEER	

		C(L) X	ING CO LTD	
22	HEAVY FUEL PURIFIER	MODEL SJ 50F	MITSUBISHI KAKOKI KAISHA	CAP 4150, RPM 6500, MASS 920, 11KW, 1440RPM, SLUDGE PUMP NY 15, HEATER 47KW STRAINER TYPE STU-F-A
23	FUEL INJECTOR COOLING UNIT			A) COOLER TYPE T-TC04-0607F, DRG NO P8810291 A B) TEMP REG. VALVE TYPE SMF H32, SIZE 25 C) PUMP TYPE DHL M40, 4M3/HR, 0.3MPA, 1.5KW, 1000RPM, DAITO D) F.I.V. OIL HEATER RH 10, 3.6 MJ, TOYO HEATER CO LTD
24	FUEL INJECTOR DRAIN COOLING UNIT			A) ELECTRIC HEATER MODEL SPC-1, 415V, 3 PHASE, CAP 1KW, ELEMENT 240V-333W X 3, DRGNO P 8223334A B) PUMP TYPE DH M20, 1M3/HR, 0.3MPA, 0.75KW, 1000RPM, DAITO
25	DIESEL OIL VALVE (SHUT OFF)	CP85-FS, 40MM	VENN CO LTD	2 WAY VALVE, FLUID PRESSURE 0.98MPA, O/PRESSURE 0.4 TO 0.7MPA
26	HEAVY FUEL OIL VALVE (SHUT OFF) NEAR SETTLING TANK	CP 125-FS, 80MM	VENN CO LTD	2 WAY CLY VALVE FLUID PRESSURE 1 MPA, O/P 0.6-0.7 MPA
27	VISCOSITY CONTROLLER		VAF INSTRUMENTS	W/PRESSURE 1MPA - 4MPA, TEMP 150 - 180 DEG. C. VISCOSENSE DN 50, VISCOSITY 380 - 500 MM2/S
28	FUEL OIL CHANGE OVER VALVE	TYPE CP 85 - FT SIZE 50MM	VENN CO LTD	3 WAY CYLINDER VALVE, O/P 0.5 - 0.7MPA
29	PRESS REGU VALVE FOR FEED LINE	MD 22 TYPE	VENN CO LTD	
30	PRES REGU VALVE FOR CIR LINE	MD 2P TYPE	VENN CO LTD	

		65MM SIZE		
31	FUEL OIL SHUT OFF VALVE	CP85- FS, 50MM	VENN CO LTD	2 WAY CLINDER VALVE
32	EXHAUST GAS SILENCER	MODE L CBC - 38		FLOW 1650 M3/MIN, DESIGN TEMP 410 DEG C., FLUID GAS, WT 2.6T MATERIAL SS 400
33	FLEXIBLE JOINT FOR TURBO CHARGE OUTLET	TYPE 850 X 310	NIPPON METAL HOSE CO. LTD	
34	FLEX JOINT FOR EXH GAS T/C OUTLET	TYPE 550 A	NIPPON METAL HOSE CO LTD	DESIGN TEMP 600 DEG.C
35	FLEX JOINT FOR EXH GAS PIPING	TYPE 800A- 1000A	NIPPON METAL HOSE CO LTD	DESIGN TEMP 600 DEG C.
36	INTAKE AIR FILTER			
1	COOLING WATER PUMP	MEGA G 125- 315	FLUID FLOW TEQ	CAP 230 M3/HR, 30KW, 1470RPM, 25M HEAD, KSB MAKE
2	SUBMERGED DRAIN PUMP	AMA PORTE R	FLUID FLOW TEQ	
3	DIESEL TRANSFER PUMP	RDNXJ	DEL ENGINEER S PVT LTD	SIZE 1 1/2" X 1 1/2" B610 TABLE H, CAP 5.0/6.0/7.5 M3/HR, MAX. PRESSURE 17 KGF/CM2,
4	AIR COMPRESSOR,3 0BAR, 25.2 M3/HR	ELGI 2STAG E,	ELGI EQPTS LTD	10HP, FAD 420 LTS/MIN, 950RPM
5	DIESEL ENGINE FOR COMPRESSOR	KIRLO SKAR	KIRLOSK AR OIL ENGINES LTD	10 BHP, 7.4KW, 1500RPM
6	SEA WATER PUMP	KIRLO SKAR	D.N.HEM MADY	2 STAGE, CAP 250 M3/HR. 45KW, 1450 RPM, WT 1700 KGS

7	F.O. DRAIN PUMP		TUSHACO PUMPS LTD	CAP 10 L/MIN., 5 KG/CM2,
8	LUB OIL BARREL UNLOADING PUMP		TUSHACO PUMPS LTD	
9	SLUDGE TRANSFER PUMPS		TUSHACO PUMPS LTD	
	GENERATOR		TOYO DENKI EIZO K.K.	CAP 7750KVA, POWER FACTOR 0.8, VOLTAGE 6.6KV, 677A, 50HZ, 10P, WT 32.0T
	CONTROL PANELS			
	BREAKERS			

PHOTOS:



























