

NITIN CORPORATION

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

3 x 6 MW each, WARTSILA (1997/2000) make, HFO fired Engine Generator sets, having the following technical specifications:

TECHNICAL SPECIFICATIONS:

BRIEF INFORMATION OF GENERATOR SETS	
TotalworkingHours	
DG-2	60824
DG-3	62477
DG-6	48917
Position of Load Trial and towhtextent.	90%
Availability of Special Tools & Tackles & Spares etc.	- Tools & Tackles1 Set available - Spares list attached.
Logsheet, Maintenance & overhaul record	Daily logsheet is Maintained
DG#2	6-May-06 RunningHrs-58174 After O/H Running Hrs-2650
DG#3	7-Feb-06 Running Hrs-57459 After O/H Running Hrs-5019
DG#6	26-Nov-10 Running Hrs-48640 After O/H Running Hrs-277

TECHNICAL SPECIFICATIONS			
DETAILS	DG No.2	DG No.3	DG No.6
Model	18V32D	18V32D	18V32LN
Make	Wartsila	Wartsila	Wartsila
Capacity	6 MW	6 MW	6 MW
Year of Make	1995	1995	1999

Commissioning	1'st Aug,1997	1'st Aug,1997	10'th Jul,2000
Mountings	Flexible with Rubber Pads	Flexible with RubberPads	Flexible with Helical Springs
Frame	Split	Split	Common
Running Hours as On 30/04/2007	60186	61666	48531
Last Overhaul	7-May-06	11-Feb-06	23-Jan-05
Last Overhaul at	58174	57459	36600
Fuel Consumption (kWh/Lit)	4.15	4.15	4.2
Lub Oil Consumption (gms/kWh)	0.9	0.9	0.6
GOVERNOR			
Model	PGG58	PGG58	PGE58
Type	Hydraulic	Hydraulic	Electronic
Make	Woodward	Woodward	Woodward
Drive shaft RPM	853-1022	853-1022	853-1022
TURBO CHARGER			
Model	VTR354P-11	VTR354P-11	VTR354P-11
Make	ABB, Finland	ABB, Finland	ABB, Finland
ALTERNATOR			
Type	Cylindrical Rotor Synchronous gen. with Brushless Excitor		AMG0900XS08D SEA
Make	BHEL, Bhopal	BHEL, Bhopal	ABB, Finland
kVA	7500	7500	7525
kW	6000	6000	6020
RPM	750	750	750
P. F	0.8 lag	0.8 lag	0.8 lag
Stator Volt.	6600	6600	6600
Stator Amp.	656	656	658
Duty	Continuous	Continuous	Continuous
Exc. Voltage	225	225	-
Exc. Amp	350	350	-
Weight (kG)	33500	33500	22300
Amb. temp .(Deg.C)	50	50	50
Protection Class	IP23	IP23	IP23
BRUSHLESS EXCITOR			
Make	BHEL, Bhopal	BHEL, Bhopal	ABB, Finland
Power in kW	71	71	In-Built
Exc. Amp	4.3	4.3	
Exc. Voltage	148	148	
Connection	Star	Star	
Volt	215	215	
Amp	330	330	
RPM	750	750	
Hz	75	75	
FUEL OIL SYSTEM – HFO UNLOADING SKID (1 NO.)			

Pump (2)			
Make	Prakash Ind. Vapi, Gujrat		
Model	SB-450		
Pressure	100 psi		
Flow	450 ltrs/min		
Motor (2)	6MW		
Make	Crompton Greaves		
Model	AEJ98935		
Power (kW)	5.5		
RPM	710		
HFO TRANSFER SKID (2 NOS)			
Pump (4)			
Make		IMO, Sweden	IMO, Sweden
Model		ACE038K2NTBP	ACE032N2NTBP
Motor (4)			
Make		Crompton Greaves	Bharat Bijlee Ltd
Model		DVJ/JD4231	ILA3044-4
Power (kW)		3.7	1.1
RPM		2850	1415
Heater (4)			
Make		Rarechem Ind.	AALBORG
Model		Inune Vertical	VestaEO24
Volume		-	0.036 cubic.mtr
Pressure		15Bar	10 Bar
Temp		-	150 Deg. C
Power (kW)		54	24
FUEL OIL SEPARATOR (2 NOS)			
Separator (2)			
Make	Alfa Laval, Sweden	Alfa Laval, Sweden	
Model	WHPX-410-TGD- 20	WHPX-410-TGD- 20	
Controller	EPC-41	EPC-41	
Temp. Controller	Yes	Yes	
Temp. Controller Make	Radix	Radix	
Pump (2)			
Make	Alekton	Alekton	
Model	AV240-800-2	AV240-800-2	
Heater (1)		-	
Power (kW)		120	
HFO BOOSTER SKID (1 NO)			
Pump (2)			

Make			IMO, Sweden
Model			ACE032N2NTBP
Motor (2)			
Make			Bharat Bijlee Ltd
Power (kW)			2.2
Heater (2)			
Power (kW)			30
Visco Controller			Yes
Make			Mar-In Controls
Motor kW			0.12
Temp. Controller			Yes
Make			Ashe
FUEL OIL FILTER (3 NOS)			
Make	FINN	FINN	FINN
Model	FFP-3053OE	FFP-3053OE	FFP-3053OE
Primary Filter	15 micron	15 micron	15 micron
Secondary Filter	40 micron	40 micron	40 micron
LFO TRANSFER SKID (1 NO)			
Pump (1)			
Make	IMO, Sweden		
Model	ACE038N1IVBO		
Motor (1)			
Make	Bharat Bijlee		
Model	BEC3F213713DVJ		
Power (kW)	2.2		
RPM	2830		
LUB OIL SYSTEM – PRE LUB PUMP (3 NOS)			
Pump (3)			
Make	IMO, Sweden	IMO, Sweden	IMO, Sweden
Model	ACG070K5IVB	ACG070K5IVB	ACG070K5IVB
Motor (3)			
Make	Crompton Greaves	Crompton Greaves	Crompton Greaves
Power (kW)	15	15	15
LUB OIL FILTER (3 NOS)			
Make	FINN	FINN	Wartsila Diesel Finland
Model	FFP32040	FFP 32040	471230
Primary Filter	15 micron	15 micron	15 micron
Secondary Filter	40 micron	40 micron	40 micron
LUB OIL SEPARATOR (3 NOS)			
Make	Alfa Laval, Sweden	Alfa Laval, Sweden	Alfa Laval, Sweden
Model	MOPX207SGT24	MOPX207SGT24	MOPX207SGT24
Max. Speed (RPM)	6321	6321	6321

Motor RPM	1440	1440	1440
Heater kW	60	60	60
Controller	DCU-41X	DCU-41	DCU-41
COMPRESSED AIR SYSTEM (1 NO)			
Make			Ingersoll Rand
Model			7T2
Air Bottle (3)			6321
Capacity	1 cubic mtr	1 cubic mtr	1 cubic mtr
NOZZLE TEMPERATURE CONTROL SYSTEM (1 NO)			
Pump (2)			
Make			IMO, Sweden
Model			ACE032N2NTBP
Motor (2)			
Make			Bharat Bijlee Ltd
Power (kW)			1.1
Heater (2)			
Make			Kantilal Heaters
Power (kW)			12
PLATE HEAT EXCHANGER			
HT PHE			
Type	AK20FM	AK20FM	M15BFM8
Max. Temp (Deg. C)	100	100	100
Pressure (Bar)	10	10	10
Pack Length (mm)	210	210	747
LT PHE			
Pack Length (mm)	475	475	
LOPHE	100	100	100
Pack Length (mm)	567	567	
LT & LO PHE			
Pack Length (mm)			354
COOLING TOWER (3 NOS)			
Make	Paharpur	Paharpur	Paharpur
Type	376-102	376-102	457-201
PRESSURISATION & VENTILATION SYSTEM (3 NOS)			
Make	Flakt India	Flakt India	Flakt India
CHARGE AIR FILTERS (3 NOS)			
Make	Flakt India	Flakt India	ABB
ELECTRICAL SYSTEM			
FOR DG NO. 2 & 3		FOR DG NO.6	
<ol style="list-style-type: none"> 1. Relay & Control Panel (Masstek) 2. AVR Panel (BHEL, Bhopal) 3. HTPT Panel 4. Engine MCC 5. NGR Panel 		<ol style="list-style-type: none"> 1. Relay & Control Panel including AVR (ABB, Finland) 2. NGR Panel 	
EXHAUST SYSTEM (3 NOS)			

1. Exhaust Gas Silencer
2. Chimney (58 meter)
3. Accompanied ducting

SCOPE OF SUPPLY		
For DG- 2 & 3		
Sr. No.	Part Name	Qty
1	Big End Bearing Shell Upper-111004.	12
2	Big End Bearing Shell Lower-111005.	12
3	Piston Set Ring 113013.	17
4	Piston-113025, (A-P) 3 + 1 (Mahle).	10
5	Main Bearing Shell Upper-100096.	13
6	Main Bearing Shell Lower-100097.	13
7	7T2 Air Compressor Make Ingersoll-Rand	1
8	Booster Unit	1
9	MOPX207 Lub Oil Separator	2
10	500KL Storage Tank	1
11	50KL Settling Tank	1
12	50KL Day Tank	1
For DG - 6		
1	Big End Brg. Shell Lower 111005.	2
2	Big End Brg. Shell Upper 111004.	2
3	Injection Pump 165180 For 18V32LN.	1
4	Pump Element 165102.	2
5	Adapter For Low No X, P.No165108.	2
6	Spare Part Set 165178, LowNoX.	1
7	Nozzle 167020.	34
8	Set of Seal Injection valve 167046.	30
9	Cylinder Head-120055.	1
10	Connecting Rod-111003.	1
11	Securing Ring 113010,LowNoX.	1
12	Gudgeon Pin -113014.	1
13	Camshaft-148002 – LN model.	1
14	Camshaft-148001 – LN model.	1
15	Screw 111015.	1
16	Screw 113008 For Lownox Piston.	22
17	Spare part Set 165178,Lownox.	22
18	Tappet 165133, Lownox.	2
19	Spring 121061, Lownox.	895
20	Spring Pin 113012 For Lownox.	10
21	Spring 167010 Lownox .	6
22	Spring Comp. Part No. 483049.	2
23	Piston ring set 113013,Lownox.	2
24	Ball Bearer 121064,Lownox.	37
25	Duplex Filter, Ln20 Micron 7cum.	2

26	Nut Big End 111006.	2
27	Nut 111016 For Cr.	2
28	Push Rod 167011, Low Nox	16
29	Booster Unit	1
30	MOPX 207 Lub Oil Separator	1
31	7 T2 Air Compressor Make Ingersoll-Rand	1
32	Associated Electrical Panels	Set

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