
FOR SALE
19 MW HFO FIRED POWER PLANT

COMPRISING OF

**3 EACH 6.31 MW WARTSILA HFO DIESEL
ENGINE GENERATOR SETS**

50HZ. 11kV. MODEL 18V32LN

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19 MW WARTSILA HFO FIRED POWER PLANT

TECHNICAL SPECIFICATIONS :

TECHNICAL SPECIFICATIONS	Wartsila HFO Generator No. 1	Wartsila HFO Generator No. 2	Wartsila HFO Generator No. 3
ENGINE DETAILS:			
Make	Wartsila VASA	Wartsila VASA	Wartsila VASA
Type	18V32 LN	18V32 LN	18V32 LN
Cylinder Bore	320 mm	320 mm	320 mm
Stroke	350 mm	350 mm	350 mm
Piston displacement per cylinder	28.151	28.151	28.151
Direction of Rotation	Clockwise	Clockwise	Clockwise
Speed	750 RPM	750 RPM	750 RPM
Output	6310 kW	6310 kW	6310 kW
No. of Valves	2 Inlet & 2 Outlet	2 Inlet & 2 Outlet	2 Inlet & 2 Outlet
V Angle	50 Deg.	50 Deg.	50 Deg.
Compression Ratio	13:5:1	13:5:1	13:5:1
Gross Weight	60800 kgs	60800 kgs	60800 kgs
Year of Manufacturing	1999	1999	2007
Cumulative Running Hours	88945	84252	46342
Turbocharger Make	ABB	ABB	ABB
Turbocharger Type	VTR 354 P 11/21	VTR 354 P 11/21	VTR 354 P 11/21
GENERATOR DETAILS :			
Year of Manufacture	1999	1999	1999
Output in kVA	7962 kVA (6.31 MW)	7962 kVA (6.31 MW)	7962 kVA (6.31 MW)
Duty	S1	S1	S1
P.F.	0.8	0.8	0.8
Type of Cooling	IC 0A1	IC 0A1	IC 0A1
Speed	750 RPM	750 RPM	750 RPM
Mounting Arrangement	IM 1101	IM 1101	IM 1101
Degree of Protection	IP 23	IP 23	IP 23
Insulation Class	F	F	F
Generating Voltage	11000 V	11000 V	11000 V
Current	418A		
Frequency	50 Hz		
Alternator Weight	22300 kgs.		
EXCITOR DETAILS:			
Make	ABB Finland	ABB Finland	ABB Finland
Type of Designation	AMG0900XS08	AMG0900XS08	AMG0900XS08

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	DSEA	DSEA	DSEA
No Load Excitation	2.8 A / 28.5 V	2.8 A / 28.5 V	2.8 A / 28.5 V
Rated Load Excitation	9.6 A / 97.0 V	9.6 A / 97.0 V	9.6 A / 97.0 V
Resistance at 20 Degree. C			
Stator Winding	0.0800 OHM	0.0800 OHM	0.0800 OHM
Field Winding	0.575 OHM	0.575 OHM	0.575 OHM
Exciter Winding	7.9 OHM	7.9 OHM	7.9 OHM

OTHER INFORMATION	Wartsila HFO Generator No. 1	Wartsila HFO Generator No. 2	Wartsila HFO Generator No. 3
Whether Generator can run in parallel with Grid Power	Yes	Yes	Yes
Load Sharing System	Yes, in Isoch Mode	Yes, in Isoch Mode	Yes, in Isoch Mode
Lube Oil Used	Shell Argina XI 40	Shell Argina XI 40	Shell Argina XI 40
Last Major Overhaul Date	December 2012	July 2009	August 2011
Maintained by	Wartsila	Wartsila	Wartsila

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SCOPE OF SUPPLY OF 3 NOS. 6.31 MW EACH, WARTSILA 18V32LN HFO GENERATORS				
SR NO.	TECHNICAL SPECIFICATIONS	GENERATOR #1	GENERATOR #2	GENERATOR #3
1.	Unloading Station	Common For All 3 Generators.		
2.	HFO Transfer Unit #1	Common For All 3 Generators.		
3.	HFO Transfer Unit# 1 - 42 KW Heater Drum	Common For All 3 Generators.		
4.	HFO Transfer Unit# 2 (Stand By Unit)	Common For All 3 Generators.		
5.	HFO Transfer Unit# 2 42 KW Heater Drum (Stand By Unit)	Common For All 3 Generators.		
6.	HFO Separator Unit #1 (Right Side)	Common For All 3 Generators.		
7.	HFO Separator Unit #1 - 72 KW Heater Drum (Right Side)	Common For All 3 Generators.		
8.	HFO Separator Unit #2 (Left Side - Standby Unit)	Common For All 3 Generators.		
9.	HFO Separator Unit# 2 - 72 Kw Heater Drum (Left Side - Standby Unit)	Common For All 3 Generators.		
10.	HFO Separator Unit #3 (Standby Unit)	Common For All 3 Generators.		
11.	HFO Feeder Unit #1	Common For Generator #1 & #2		-
12.	HFO Feeder Unit #2		-	For Generator #3
13.	HFO Booster Unit #1	Common For Generator #1 & #2		-
14.	HFO Booster Unit #1 – 99 KW Heater Drum	Common For Generator #1 & #2		-
15.	HFO Booster Unit #2		-	For Generator #3
16.	HFO Booster Unit #2 – 51 KW Heater Drum		-	For Generator #3
17.	Fuel Oil Unit	#1 Available	#2 Available	#3 Available
18.	Lube Oil Separator	#1 Available	#2 Available	#3 Available
19.	Lube Oil Filters	#1 Available	#2 Available	#3 Available

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	Drum & Prelube Pump			
20.	Lube Oil PHE (Plate Heat Exchanger)	Available	Available	Available
21.	Cooling Radiators – LT	Available	Available	Available
22.	Cooling Radiators – HT	Available	Available	Available
23.	Expansion HT & LT Vessel Water Tanks	Available	Available	Available
24.	RO Plant	Common For All 3 Generators.		
25.	Starting Air Compressor Unit 1, 2, 3 & 4	Common For All 3 Generators.		
26.	Air Vessels Tank	Common For All 3 Generators.		
27.	P & V (Pressurized Ventilation) System (Auxiliary Side) For Maintaining the Generator Hall Temperature	Common for Generator Hall.		
28.	P & V (Pressurized Ventilation) System (Main Side) For Maintaining the Generator Hall Temperature.	Common for Generator Hall.		
29.	MV Switchgear (11KV Jyoti Make HT Boards)	Common For All 3 Generators.		
30.	Station Transformer (11kv/440 V - Voltamp Make)	Common For All 3 Generators.		
31.	Power Control Center (LT PCC - Siemens Make)	Common For All 3 Generators.		
32.	Scada Based Control Room	Common For All 3 Generators.		
33.	ABB Turbo Charger	Type : VTR 354 P 11/21	Type : VTR 354 P 11/21	Type : VTR 354 P 11/21
34.	Charge Air Cooler	Available	Available	Available
35.	Exhaust Bellow A & B Both Side	Available	Available	Available
36.	Miscellaneous	For All 3 Generators like Cables, Interconnecting Piping, railings, Ladders, working platforms, supports & any other structures connected with the above Plant.		

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PHOTOGRAPHS:



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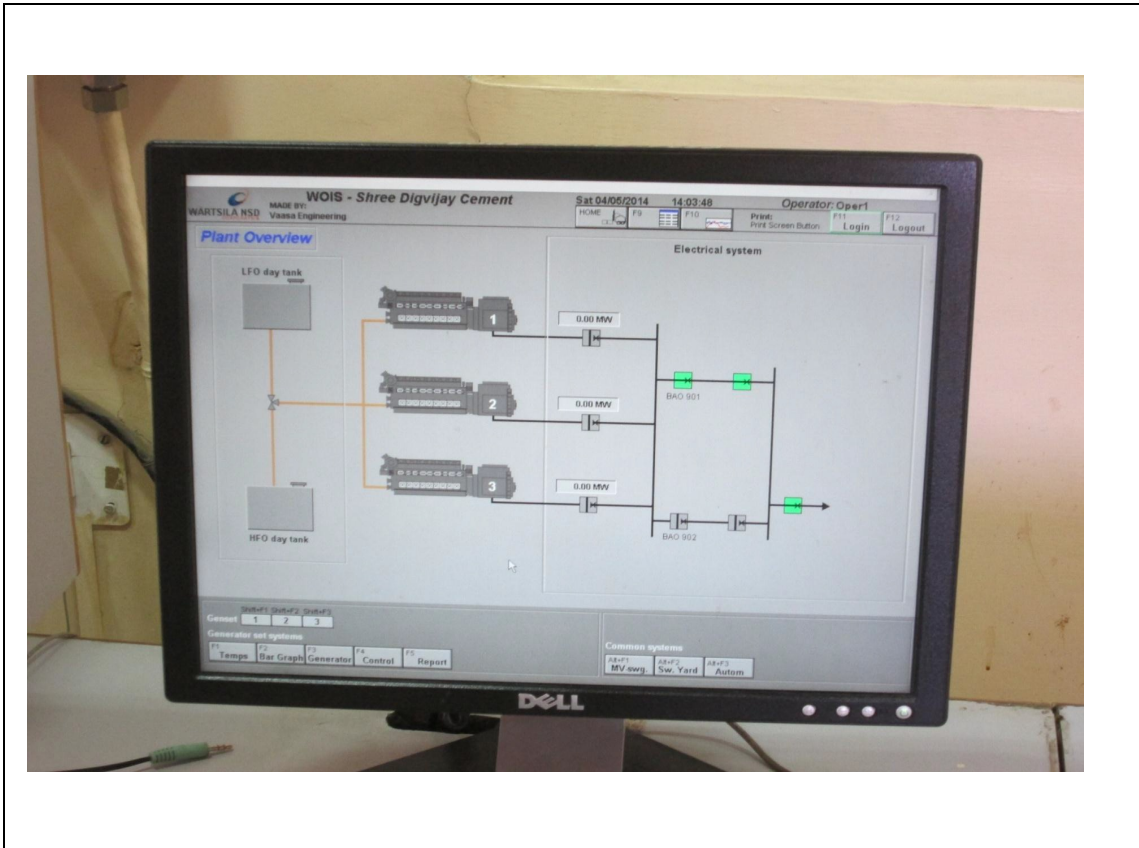
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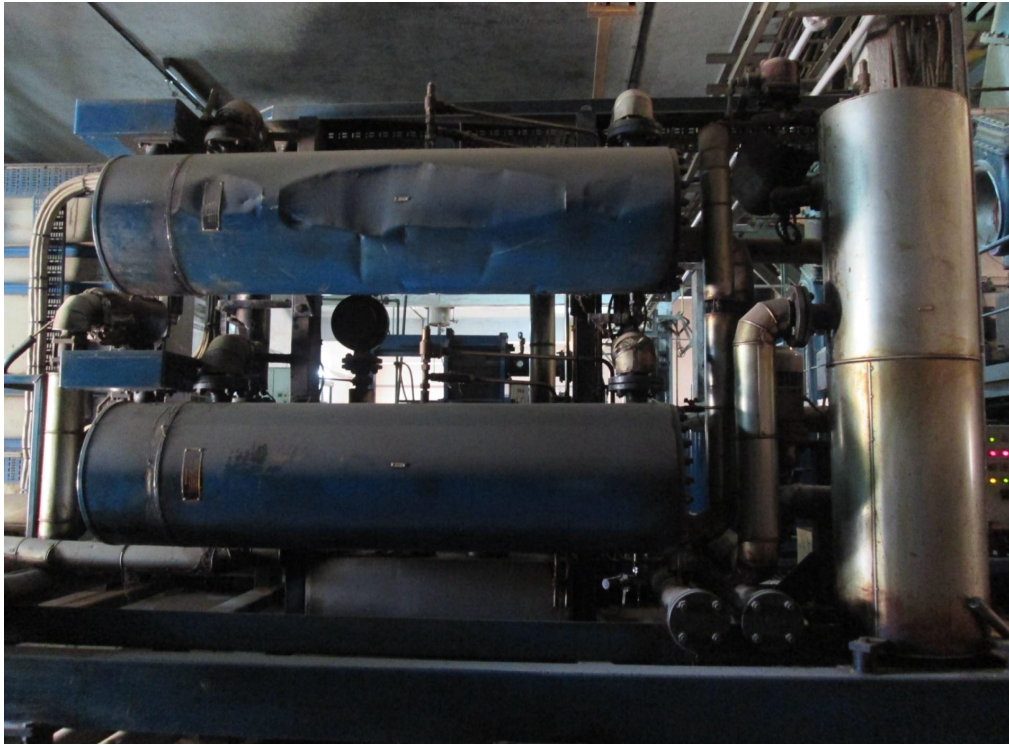
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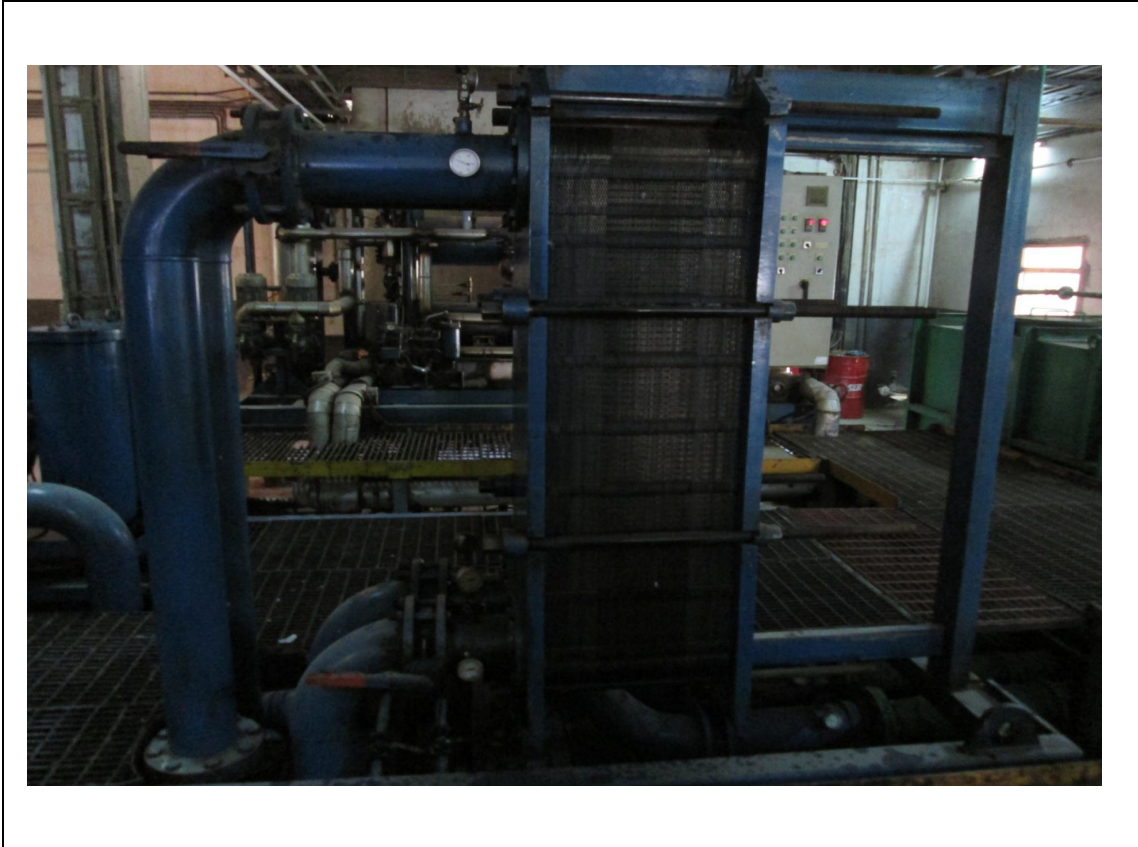
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