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THE FOLLOWING GAS ENGINE FIRED POWER PLANT IS AVAILABLE FOR SALE WITH US ***WITH IMMEDIATE DELIVERY:***

2 Nos. – 138 MW each, **Wartsila (2012)** make Complete Gas Engine based Combined Cycle Power Plants as per the following technical specifications:

138 MW Combined Cycle Power Plant:

Fuel type	:	Natural Gas
Rated Output (existing-Gas Motors)	:	126.1 MW
Rated Output CCPP	:	138.38MW
Generation Capacity	:	1,107,040,000 kWh/Year

TECHNICAL CHARACTERISICS

Type of Generation	:	Combined Cycle
Fuel Type	:	Natural Gas
Number of Units	:	13 Gas Motors/Gen. + 1 ST/Gen
Gas Motors Manufacturer	:	Wartsila
Type of Gas Motors	:	20W34SG

Rated Output (Gas Motors)	:	9.73 MWe
Efficiency (Gas Motors)	:	%45
Steam Turbine Manufacturer	:	SIEMENS
Type of Steam Turbine	:	SST – PAC - 300
Power Output	:	12.280 MWe
Number of Boiler	:	13
Capacity Boilers	:	4,6 t/h, 59,8 t/h (total)
Steam Pressure	:	15 bar
Steam Temperature	:	350 ^{0}C
Efficiency of Combined Cycle(Overall)	:	%48.5
Rated Power of TRs	:	100 MVA

TOTAL RUNNING HOURS OF PLANT –I & PLANT – II:

	1 No.	**2 No.**	**3 No.**	**4 No.**	**5 No.**	**6 No.**	**7 No.**	**8 no.**	**9 No.**	**10 No.**	**11 No.**	**12 No.**	**13 No.**
PLANT - I	2,293	2,287	2,203	2,283	2,292	2,294	2,294	2,287	2,242	2,285	2,294	2,292	2,293
PLANT - II	1,865	1,796	1,649	1,780	1,789	1,564	1,576	1,884	1,754	1,879	1,818	1,719	1,844

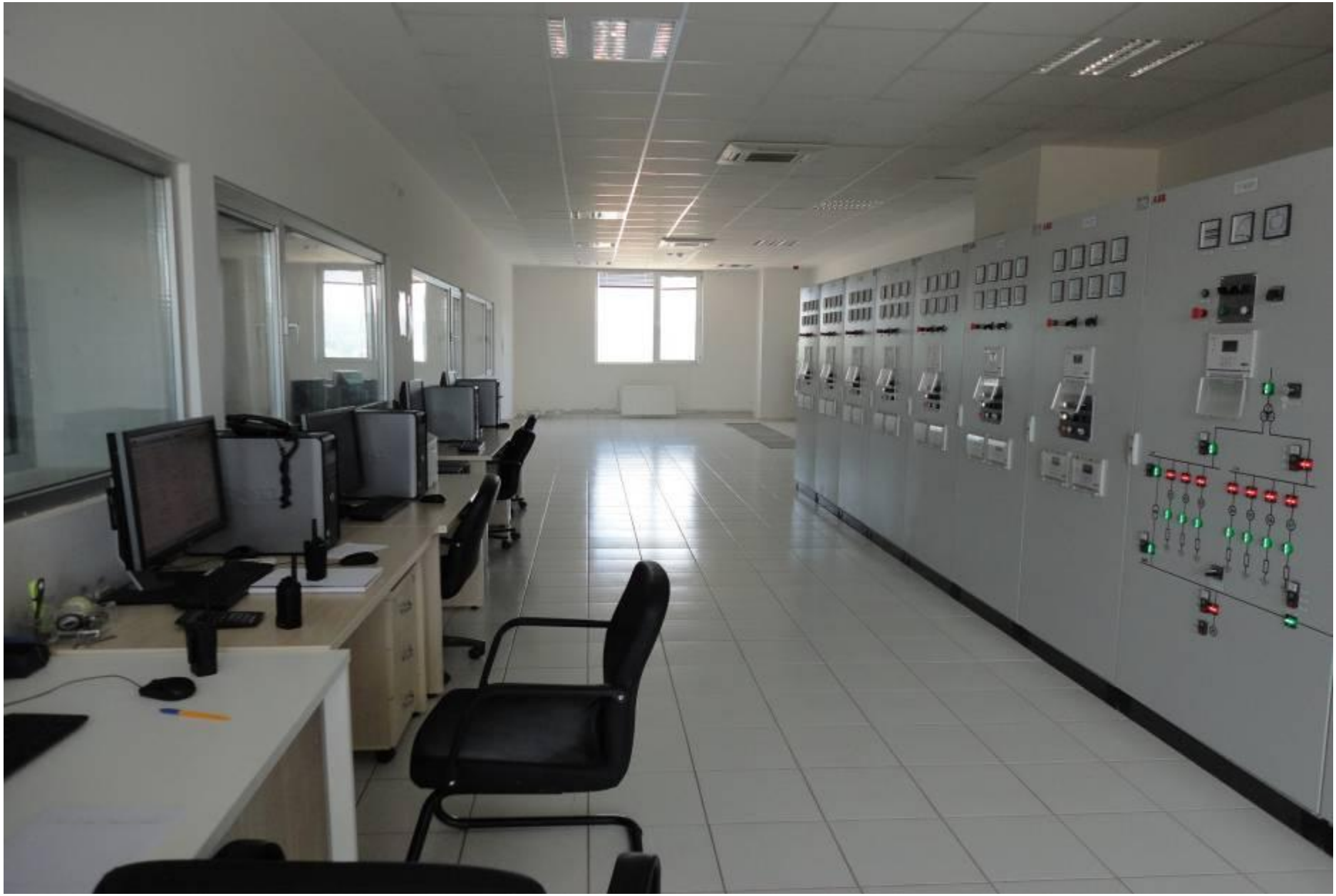
LIST OF EQUIPMENT FOR EACH POWER PLANT

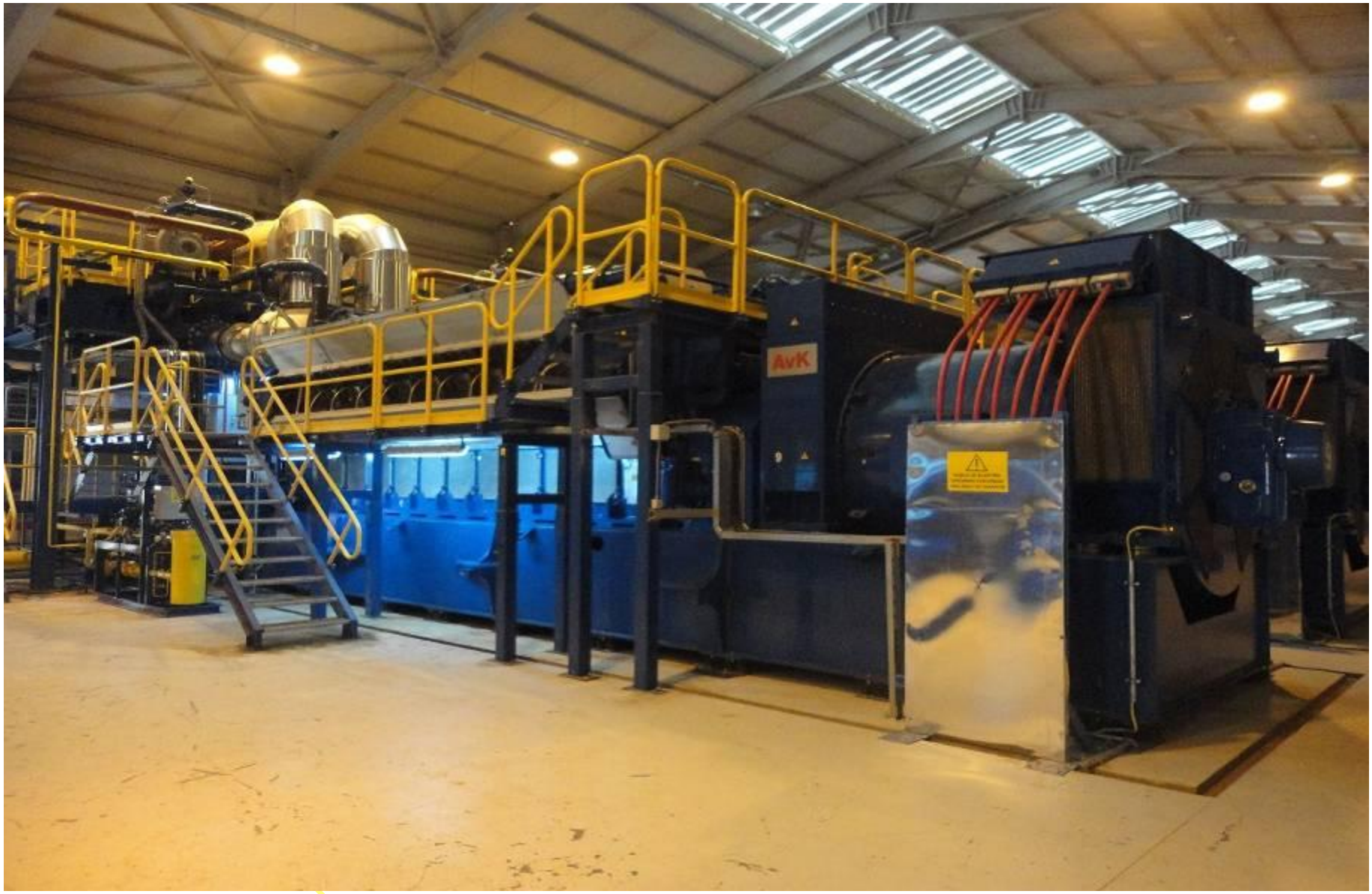
Nos.	DESCRIPTION	TECHNICAL SPECIFICATIONS	BRAND	YOM	QTY
1.0	**Gas Engines – 1,300 operational hours**	9730 kW, 750 rev/min	WARTSILA-W20V34GS	2011	13
2.0	**Alternator**	9730 kW, 750 rev/min	AVK - 8430499 H101	2011	13
3.0	**Natural Gas Pressure Adjustment Station for Engines**	RMG, 6-7 bar to 3-3,2 bar		2011	13
4.0	**Maintenance Tank**	5 tons	HT	2011	3
5.0	**Charge Air System for Engines**			2011	13
5.1	**Air Tank**	2 tons, 33 bar, 480 l		2011	5
5.2	**Water Cooling Fans, Radiator Panels and Installation**	14x13 kW	COILTECH	2011	13 sets
6.0	**Exhaust and Funnel System**		HT	2011	13
7.0	**Natural Gas Fuel System**		HT	2011	Complete
8.0	**Lubrication System**		HT	2011	Complete
8.1	**Oil Pump and Component**	3 kW		2011	2
8.2	**New Lubricating Oil Tank**	55 m^3	HT	2011	1
8.3	**Waste Oil Tank**	7 m^3	HT	2011	1
8.4	**Service Oil Tank**	7 m^3	HT	2011	1
9.0	**Screw Compressor, Drier and Air Tank and Instrument System**	2,7 m^3/min, 7 bar, 18,5 kW	GARDNER DENVER - WD 18-7 EANA	2010	3
10.0	**Piston Compressor for Start-up Air**	108 m^3/min, 30 bar, 24,3 kW	SPERRE - HL2/140	2010	4
11.0	**Ventilation Fans and Fan Assemblies for Machinery**	2x21.600 m^3/h, two fans		2011	13
12.0	**Ventilation Fans and Fan Assemblies for Machinery Room**	64.800 m^3/h		2011	13
13.0	**Frequency Inverter for Ventilation**	13x15 kW		2011	Complete
14.0	**Extinguishing Installation**		HT	2011	
14.1	**Fire Hydrant and Fire-hose Cabinets**			2011	6

14.2	**Diesel Pump**	90 kW	NORM	2011	1
14.3	**Electrical Pump**	90 kW		2011	1
14.4	**Jockey Pump**	3 kW	DAF	2011	1
14.5	**Fire and Gas Detection and Alarm System**		MAXLOGIC, MAVIGARD	2011	1 set
14.6	**Fire Tank**	1000 m^3		2011	1
15.0	**Water Purification System (complete with switchboard and all equipment)**		HT	2011	Complete
15.1	**Sand Filter, Activated Carbon Filters, Water Softening Device, Water Reclamation Device**			2011	1
15.2	**Hydrophore System (complete with pumps and expansion tank)**	2x5,5 kW	STANDARD PUMP	2011	Complete
15.3	**Water Tank (Soft Water Tank)**	150 m^3, Cr-Ni Stainless	HT	2011	1
15.4	**Water Tank (Glycol Tank)**	35 m^3, Cr-Ni Stainless	HT	2011	1
16.0	**HVAC Cooling System**		HT M	2011	Complete
17.0	**Natural Gas Pressure-Reducing Station**	RMS-A, 35-75 bar to 12-19 bar	RMG	2011	1
18.0	**Natural Gas Pressure-Reducing Station**	RMS-B, 12-19 bar to 6-7 bar	RMG	2011	1
19.0	**Bridge Crane**	2 tons	GMD - 20 920	2011	1
20.0	**Grounding and Lightning Conductor**			2011	Complete
21.0	**Roof Monitor**	51 grills		2011	Complete
22.0	**Transformer**	100 MVA		2011	2
23.0	**Transformer**	2500 kVA		2011	2
24.0	**Switching Station, complete with Units, Boards and all Appurtenance**	154 kV, 5 Fiber		2011	Complete
24.1	**Low Voltage Power Switchboards**	0,4 kV		2011	1 set
24.2	**Medium Voltage Cells**	11 kV for 14 engines and for 10 auxiliary transformers		2011	1 set
24.3	**System Control and Steering Boards**			2011	1 set

24.4	**Switchboard Room (complete with Medium Voltage Panel, Measurement Cell, Medium Voltage Cell, Inverter, Feeding Pump, Compensation Panel, Distribution Panel, Fan Inverter, Direct Current Panel)**			2011	1 set
25.0	**Automatic Diesel Generator**	275 kVA	TJ275SD5C	2011	
26.0	**Uninterrupted Power Supply (complete with batteries)**	10 kVA	ENEL - AS	2011	1
27.0	**Heat Recovery Boiler (complete with all equipment)**			2012	13
28.0	**Steam Turbine**	12,28 MW	SIEMENS - PAC - 300	2012	1
29.0	**Alternator**		SIEMENS	2012	1
30.0	**Condenser**			2012	1
31.0	**Fixtures**			2011	Complete

PHOTOGRAPHS:




AVK

Gas Engines, Alternators, incl. its Equipment

Gas Engines, Alternators, incl. its Equipment

Gas Engines, Alternators, incl. its Equipment

Water Purification Equipment

Steam Turbine, Alternator, Condenser and Other Equipment

Ventilation Fans and Fan Assemblies

Start-up Air Equipment

Hydrophore, incl. its Equipment

Start-up Air Piston Compressors

Instrument Air Screw Compressors

DC Panel Assembly and Frequency Invertors

DC Panel Assembly

Fan Switchboards and Compensation Panels

LV Panels

LV Panels

MV Panels

MV Panels