

NITIN CORPORATION

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

1 No. – 40 MW MWM make, Type TCG2032 V16, Complete Natural Gas based Combined Cycle Power Plant having the following technical specifications:

40 MW GAS POWER PLANT TECHNICAL INFORMATION:

Capacity	:	38.85 MW
Year of make	:	2012
Power Generation	:	319,200,000 kWh
Number of Gas Engines	:	8
Number of hours run	:	12.000 hrs for 6 engines 7.200 hrs for 2 engines
Engine Power	:	4.3 MW
Total 8 Engine Power	:	34.4 MW
Steam Turbine Capacity	:	4.45 MW
Total Facility Power	:	40 MW

GAS ENGINE DETAILS:

Make	:	MWM
Model	:	TCG2032V16
Speed	:	1000 t/min.
Number of Cylinder	:	16
Total Unit Number	:	8
Power per Unit	:	4300 kW
Natural Gas Calorific Value	:	8.800 kCal/Nm ³
Natural Gas Consumption	:	6.402 Sm ³ /h
Electrical Efficiency	:	% 100 Load, % 42,0
Efficiency (Mechanical)	:	% 100 Load, % 42,9
Generator Make	:	AvK
Generator Model	:	AvK DİG 156 m6
Generator Power	:	5336 kVA
Generator Voltage	:	11kV

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**1 No. 40 MW MWM (2012) make
Natural Gas Power Plant**

STEAM TURBINE GENERATOR DETAILS:

Make	:	ARANI
Model	:	API611
Type	:	Multi level, impulse type Full condensing
Total Unit Number	:	1
Unit Electrical Power	:	4450 kW _e
Unit Mechanical Power	:	4500 kW _m
Stream Consumption	:	22640 kg/saat
Stream Input Pressure	:	18 bar(a)
Efficiency (Isontrepic)	:	%100 Load %88.2
Generator producer	:	AvK
Generator power	:	5625 Kva
Generator voltage	:	11 kV

STEAM TURBINE CONDENSER DETAILS:

Make	:	ARANI
Unit Number	:	1
Fluid	:	Water / Water-Glycole(%20)
Design Pressure	:	7,85 bar(g)
Heat Transfer Surface	:	664 m ²
Thermal Power	:	4988 kW _{th}
Stream flow	:	22640 kg/saat
Cooling Water Flow	:	1450 m ³ /saat
Cooling Water Input Temperature	:	29 °C
Cooling Water Output Temperature	:	38 °C

WASTE HEAT RECOVERY BOILER DETAILS:

Type	:	Hot steam with water pipes
Total Unit Number	:	8
Water Circulation Inside Boiler	:	Natural
Exhaust Gas Input Flow	:	23944 kg/h
Exhaust Gas Input Temperature	:	465 °C
Produced Stream Flow	:	2940 kg/h (1 boiler)
Produced Stream Temperature	:	352 °C
Produced Stream Pressure	:	18 bar (g)
Heat Load	:	2290 kW _{th}
Boiler Exit Temperature	:	146 °C
Pressure Loss- Gas Side	:	125 mmSS

PHOTOS:



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