

**2 x 6.3 MW WARTSILA GAS ENGINE GENERATOR SET AND THERMAX WASTE HEAT RECOVERY BOILER SET CAPACITY 2 x 4.3 TPH ARE AVAILABLE FOR SALE**

**Specification:**

Wartsila Gas Engine Type: W16V34SG

Number: 2 sets (2 x 6.3 MW)

Make Year: 2010

Running hours: 13,500 to 13,800 hours.

**Condition:** Both engines along with WHRBS and other scope of supply are in good condition and have a history of timely overhauling.

2 No. – 6.3 MW each, Wartsila (2010) make, type W16V34SG Gas Engine Generator Sets with WHRBs, having the following technical specifications:

**TECHNICAL SPECIFICATION – WARTSILA GAS ENGINES & ALTERNATORS:**

Sr. No.	Particulars	Specifications
<b>A</b>	<b>Engine Main data:</b>	
1	Configuration	V Engine
2	Number of Cylinder	16 Nos.
3	Cylinder bore X Stroke (mm)	340x400
4	Rated Speed (RPM)	750
5	Mean Piston Speed (m/sec)	10
6	Mean effective pressure (bar)	19.8
7	Swept volume per cylinder (dm <sup>3</sup> )	36.3
8	Compression ratio	12:01
9	No. of inlet valves	2
10	No. of outlet valves	2
11	Direction of rotation faced towards fly wheel	Clockwise
12	Length (mtr)	8.21
13	Width (mtr)	3.3
14	Height (mtr)	3.6
15	Weight (kg)	67000
16	Model	W16V34SG

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17	Make	Wartsila, Finland
19	Installation date	1 <sup>st</sup> unit - 31/03/2011 & 2 <sup>nd</sup> unit- 26/03/2011
20	Rated Output(Kw)	6375
21	Cycle stroke	Four Stroke
22	Starting System	Compressed air (30Kg/cm2)
23	Supercharging system	Exhaust Gas Turbocharger
24	Fuel	Natural Gas
25	Lubrication	Forced Lubrication(Engine Driven Pump)
26	Total Running hours	1 <sup>st</sup> unit - 13533 hours & 2 <sup>nd</sup> unit – 13543 hours

<b>B</b>	<b>Generator Main Data:</b>	
1	Power	7968 kVA
2	Power Factor	0.8
3	Nominal Voltage	6600 V
4	Rated Current (In) Amp	735A
5	Voltage adjustment Range %	+5 %
6	Frequency (Hz)	50 Hz
7	Speed (RPM)	750 RPM
8	Overspeed(RPM)	900 RPM
9	Continuous Short circuit Current	>2.5 X In
10	Insulation class	F
11	Temperature rise	F
12	Cooling method	Air cooled
13	Enclosure	IP 23
14	Standard	IEC60034

**TECHNICAL SPECIFICATION – WHRBS:**

Sr. No.	Description	Details
1	Make	Thermax, Pune
2	Type	Water tube, single drum, Re-circulation
3	Date of Commissioning	20/05/2011
4	Exhaust gas Quantity Kg/hr.	38520
5	Exhaust gas inlet temperature Deg. C	394
6	Exhaust gas Outlet temperature Deg. C	164
7	Exhaust gas Pressure drop from damper inlet to chimney inlet mmWc	140
8	Feed Water Temperature Deg. C	95@ Economiser inlet
9	Losses Considered	2% Radiation & 1% Blow down
10	Waste Heat Source	Exhaust Gas From gas Engine
11	Steam gen Capacity of Each WHRB in	4300 Kg/ Hr.

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	Kg/Hr.	
12	Heating surface area	1500Sq. Mtr
13	Steam Pressure Kg/cm2 (g)	13 kg/cm2 (g)
14	Steam Temperature Deg. C	Saturated
15	Exhaust gas composition % Vol	CO2-4.65, H2O-11.6, N2-72.5, O2-10.2

**SCOPE OF SUPPLY:**

Sr. No.	Name of Equipment	Qty.	Remarks
1	Complete Gas Engine with Alternator sef. Capacity 6.375 Mw each	2 Nos.	Engine - Wartsila make & Alternator - AVR make
2	Gas regulating unit	2 Nos.	RMG make
3	Oil bath fitter unit	2 Nos.	
4	Charge air silencers	2 Nos.	
5	Gas Filtration unit	1 No.	
6	Maintenance Water Tank capacity 5000 ltrs each	1 No.	
7	Exhaust gas ventilation unit	2 Nos.	
8	Engine Pipe module	2 Nos.	Wartsila make
9	Engine jacket water cooling PHE	2 Nos.	AlFa Laval make
10	Crank case breathers	2 Nos.	
11	Jacket water expansion tanks, capacity 300 ltrs each	2 Nos.	
12	Exhaust gas piping	2 sets	
13	Completes Waste Heat Recovery Boiler set capacity 4.3 TPH each	2 Nos.	Make – Thermax
14	WHRB Re-circulation pumps	4 Nos.	Make Suzler
15	WHRB exhaust gas diverter dampers	2 Nos.	Make – Indira Dampers
16	WHRB Electrical panels	2 Nos.	
17	WHRB steam drums	2 Nos.	
18	WHRB exhaust gas ducting	2 sets	
19	Gas engine Auxiliary electrical panels	2 Nos.	
20	Gas engine control panels	2 Nos.	
21	Gas Engine synchronization panel	1 No.	
22	Wartsila WOIS system with PC	1 No.	
23	Wartsila WISE system with PC	1 No.	
24	Gas Engine structure & platforms	2 Nos.	
25	WHRB Structure & platforms	2 Nos.	
26	Exhaust gas Chimneys (30 mtrs each)	2 Nos.	
27	Gas/air/oil piping	Lot	

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For purchase and other details please get in touch with our office.

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