

# Dahanu Thermal Power Station Reliance Energy Limited

One of the Top Plants of World-2004  
By platts Power,USA

**For F.Y-2004-05**  
**PLF = 101.35%**  
**Availability = 96.88**  
**Loading Factor = 104.61%**  
**Lowest Heat Rate**



The Power Plant created history by achieving the highest PLF of 101.35%, which has not been achieved by any power sector companies till date.

Capacity	:	2x250MW (Total 500MW)
Location	:	Dahanu Road, Thane Distt. M.S
Station Incharge	:	Sh. Prabir K Majumdar Vice President –REL

Dahanu TPS is Reliance Energy Ltd.'s single largest power generating facility. It is a 500 MW (2 X 250 MW) coal based thermal power station situated approximately 120 kms from Mumbai on the western seacoast.

The Dahanu power plant is a state of the art power generation facility. The power plant was commissioned in 1995 and has been constantly upgraded to maintain its technological edge. The plant works within a strict environment and pollution control regime. The company takes a holistic attitude towards its environmental concerns and works on the twin approaches of reducing environmental impact as well as enhancing the environment of the vicinity of the plant. The plant is first power company to be certified ISO 14001 for its environmental management system & ISO 9001 for its quality management System.

The Plant was adjudged as one of the TOP PLANTS amongst 12 short listed power plants of the world for year 2004, by platts POWER, USA.

The Operational Performance of the Plant has been excellent throughout the Financial Year 2004-2005. The Performance data for the Financial Year 2004-2005, ending 31<sup>st</sup> March 2005, is hereby enclosed for updating your database & providing wide coverage & publicity.

Operational Performance:

PERFORMANCE INDICES	F.Y 2001-2002	F.Y 2002-2003	F.Y 2003-2004	F.Y 2004-2005
GENERATION (MUs)	3846.811	3965.15	4406.83	4439.194
PLF (%)	87.83	90.53	100.34	101.35
AVAILABILITY (%)	93.02	91.03	96.84	96.88
LOADING FACTOR (%)	94.42	99.45	103.61	104.61
AUX. POWER (%)	7.82	7.43	7.34	7.53
SP. OIL CON (mL/KWH)	0.1659	0.309	0.115	0.139
DM MAKE UP (%)	0.74	0.67	0.39	0.37
TRIPPINGS/ 1000 HRS RUNNING HOURS	0.2455	0.627	0.117	0.412

Environmental Performance:

Sr. No	Parameters	M.P.C.B Limits	World Bank Limit	01-02	02-03	03-04	04-05
<b>1.</b>	<b>STACK</b>						
	Total Particulate Matter (T.P.M.) mg/Nm <sup>3</sup>	<b>150</b>	<b>100</b>	92	73	51.3	<b>29.0</b>
	Sulphur Dioxide (SO <sub>2</sub> ) TPD	<b>80.4</b>	<b>100</b>	53	57	56.2	<b>55.7</b>
	NOx (ppm at 15 % excess oxygen v/v)	<b>150</b>	<b>150</b>	92	89	88.5	<b>88.5</b>
<b>3.</b>	<b>AMBIENT AIR OUTSIDE PLANT PREMISES</b>						
	Suspended Particulate Matter (S.P.M.) µg/M <sup>3</sup>	<b>100</b>	<b>100</b>	38	48	50.8	<b>49.8</b>
	Sulphur Dioxide (SO <sub>2</sub> ) µg/M <sup>3</sup>	<b>30</b>	<b>100</b>	6	6	4.9	<b>4.2</b>
	Oxides of Nitrogen (NO <sub>x</sub> ) µg/M <sup>3</sup>	<b>30</b>	<b>100</b>	6	9	10.4	<b>8.9</b>



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 Technical Services  
 Dahanu Thermal Power Station