

**MAYA FAN AIR ENGINEERING Pvt. Ltd.**

Plot No. 53B, Industrial Area No. 1,  
A. B. Road, DEWAS - 455 001  
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Customer : Reliance Industries Limited, Jamnagar  
Fan Model : MAYA-HEA-MA06-J14M  
Plant : Sulphur  
Tag : 431-A01-01

Date 30/07/2005

**FAN PERFORMANCE REPORT**

	Unit	Existing <del>FRP</del> Fan				Maya FRP Fan			
		S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>
Fan Diameter	mm	4267.0				4267.0			
Hub Diameter	mm	600.0				5700			
Fan casing diameter	mm	-				-			
Number of Blades	Nos.	06				06			
Blade Angle	Degree	14.5°				17.5°			
Area at measuring section	m <sup>2</sup>	14.283				14.283			
Hub Area	m <sup>2</sup>	0.28				0.25			
Discharge Area	m <sup>2</sup>	14.02				14.03			
Air Velocity	m/sec	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>
R <sub>1</sub>		11.2	9.1	8.5	7.8	10.5	10.1	9.8	10.7
R <sub>2</sub>		11.5	9.4	14.0	8.3	13.2	10.4	12.2	11.2
R <sub>3</sub>		9.4	9.5	11.0	7.6	10.4	11.5	10.5	10.2
R <sub>4</sub>		10.5	10.5	12.6	8.8	10.2	11.5	10.0	10.8
R <sub>5</sub>		9.0	9.5	9.2	7.5	10.5	11.4	10.8	9.8
Av. Air Velocity	m/sec	9.765				10.781			
Air Flow	m <sup>3</sup> /sec	136.91				151.42			
Connected Motor	kW	37.0				37.0			
Supply Voltage	Volt								
Motor Current	Ams	48.10				39.06			
Consumed Power	kW	29.30				23.10			
Power Factor	-								
Power Saving	%					21.16%			
Increase in Air flow						+10.5%			

Remark

Engineer [Signature]  
Maya Fan Air Engineering

Signature [Signature]  
28/7/05

Signature