

MAYA FAN AIR ENGINEERING Pvt. Ltd.

Plot No.53B, Industrial Area No. 1,
A. B. Road, DEWAS - 455 001
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Customer : WMD BSP SAIL BHILAI
Fan Model : J 12 M
Plant : THFI (PH#56 CT FAN#05) FURNACE COOLING
Tag : FAN SET # 101

Date: 17-11-07

FAN PERFORMANCE REPORT

	Unit	Existing Fan				Maya FRP Fan			
Fan Diameter	mm	3660				3658			
Hub Diameter	mm	750				430			
Fan casing diameter	mm	3700				3700			
Number of Blades	Nos.	09				06			
Blade Angle	Degree								
Area at measuring section	m ²	10.746				10.746			
Hub Area	m ²	0.441				0.145			
Discharge Area	m ²	10.305				10.601			
Air Velocity	m/sec	S ₁	S ₂	S ₃	S ₄	S ₁	S ₂	S ₃	S ₄
R ₁		1.4	4.5	3.0	2.5	3.3	3.3	2.3	3.2
R ₂		3.6	6.2	4.5	6.3	5.0	6.0	3.9	6.2
R ₃		8.2	9.5	8.6	7.6	7.6	8.5	7.5	8.8
R ₄		12.8	12.2	12.6	11.0	10.6	11.8	11.3	11.5
R ₅		11.5	6.5	10.9	9.6	11.7	12.6	12.3	12.2
Av. Air Velocity	m/sec	153 ÷ 20 = 7.65 m/sec				159.6 ÷ 20 = 7.98 m/sec			
Air Flow	m ³ /sec	10.305 × 7.65 = 78.833 m ³ /sec				10.601 × 7.98 = 84.959 m ³ /sec			
Connected Motor	kW								
Supply Voltage	Volt	425	426	425	425	425	426	426	425
Motor Current	Ams.	15.94	16.26	16.09	16.09	10.95	11.10	10.72	10.92
Consumed Power	kW	7.83	7.90	7.79	7.84	5.15	5.32	5.14	5.24
Power Factor	-	0.66	0.67	0.66	0.66	0.64	0.65	0.65	0.64
Power Saving	%					30.16 %			

Remark

[Signature]

Engineer
Maya Fan Air Engineering Pvt. Ltd.

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17/11/07
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21/11/07
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