

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 :	THF 3 (PH#62 C.T FAN 02) FURNACE COOLING
Tag :	FAN SET # 34.

Date: 17-11-07

FAN PERFORMANCE REPORT

	Unit	Existing Fan				Maya FRP Fan			
Fan Diameter	mm	3685				3688			
Hub Diameter	mm	750				430			
Fan casing diameter	mm	3720				3720			
Number of Blades	Nos.	09				06			
Blade Angle	Degree								
Area at measuring section	m ²	10.863				10.863			
Hub Area	m ²	0.441				0.445			
Discharge Area	m ²	10.422				10.718			
Air Velocity	m/sec	S ₁	S ₂	S ₃	S ₄	S ₁	S ₂	S ₃	S ₄
R ₁		2.3	1.6	1.9	1.0	2.5	1.5	2.0	1.8
R ₂		4.8	2.5	4.9	3.0	5.3	3.0	5.0	3.3
R ₃		7.4	6.0	7.2	6.4	7.8	5.8	8.0	6.8
R ₄		9.7	7.3	9.0	8.0	10.2	7.9	9.7	8.5
R ₅		11.0	7.4	7.6	8.9	11.1	9.8	8.0	10.5
Av. Air Velocity	m/sec	117.9 ÷ 20 = 5.89 m/sec				128 ÷ 20 = 6.4 m/sec			
Air Flow	m ³ /sec	10.422 × 5.89 = 63.385 m ³ /sec				10.718 × 6.4 = 68.595 m ³ /sec.			
Connected Motor	kW								
Supply Voltage	Volt	432	433	433	432	433	433	432	432
Motor Current	Ams.	20.35	19.85	19.97	20.05	16.43	17.68	16.73	16.94
Consumed Power	kW	8.57	8.96	7.82	8.45	6.22	6.45	5.92	6.19
Power Factor	-	0.56	0.60	0.52	0.56	0.50	0.48	0.42	0.46
Power Saving	%					26.74%			

Remark

Engineer

Maya Fan Air Engineering Pvt. Ltd.

Signature

Signature