

MAYA FAN AIR ENGINEERING Pvt. Ltd.

Plot No.53B, Industrial Area No. 1,
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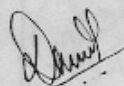
Customer : WMD BSP SAIL BHILAI
Fan Model : J10M
Plant : THF 2 (PH #59) CTFAN 308 FURNACE COOLING.
Tag :

Date: 23/11/07

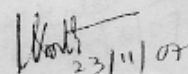
FAN PERFORMANCE REPORT

	Unit	Existing Fan				Maya FRP Fan			
Fan Diameter	mm	3010				3010			
Hub Diameter	mm	750				430			
Fan casing diameter	mm	3040				3040			
Number of Blades	Nos.	09				06			
Blade Angle	Degree	0°				0°			
Area at measuring section	m ²	7.254				7.254			
Hub Area	m ²	0.441				0.145			
Discharge Area	m ²	6.831				7.109			
Air Velocity	m/sec	S ₁	S ₂	S ₃	S ₄	S ₁	S ₂	S ₃	S ₄
	R ₁	3.0	4.0	2.5	2.5	2.4	4.2	3.8	3.9
	R ₂	6.1	7.1	4.7	3.8	6.2	8.6	6.5	6.9
	R ₃	7.4	7.6	7.4	8.5	9.1	10.5	9.8	8.8
	R ₄	8.3	8.0	8.5	7.6	10.9	10.8	11.3	10.9
	R ₅	8.0	5.0	6.0	6.4	8.8	8.7	9.7	9.5
Av. Air Velocity	m/sec	122.4 ÷ 20 = 6.12 m/sec				161.3 ÷ 20 = 8.06 m/hr.			
Air Flow	m ³ /sec	8.831 x 6.12 = 5,50,500 m/hr				7.109 x 8.06 = 2,06,274 m/hr			
Connected Motor	kW	1,50,500							
Supply Voltage	Volt	422	421	421	421	419	415	416	416
Motor Current	Ams.	11.72	11.45	8.59	10.58	8.87	9.87	10.36	9.35
Consumed Power	kW	4.03	4.23	2.71	3.85	2.56	3.11	3.09	2.82
Power Factor	-	0.47	0.50	0.43	0.48	0.40	0.43	0.44	0.42
Power Saving	%					26.75%			

Remark



Engineer
Maya Fan Air Engineering Pvt. Ltd.


23/11/07

Signature