

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 : T10M
 Plant : LADLE FURNACE COOLING TOWER FAN# 2.
 Tag : FAN SET No 96.

Date: 25-08-07.

FAN PERFORMANCE REPORT

	Unit	Existing Fan				Maya FRP Fan			
		S ₁	S ₂	S ₃	S ₄	S ₁	S ₂	S ₃	S ₄
Fan Diameter	mm	3048 mm				3036 mm			
Hub Diameter	mm	750 mm				410 mm			
Fan casing diameter	mm	3085 mm				3085 mm			
Number of Blades	Nos.	09				06			
Blade Angle	Degree	15				15			
Area at measuring section	m ²	7.471 M ²				7.471 M ²			
Hub Area	m ²	0.411 M ²				0.131 M ²			
Discharge Area	m ²	7.030 M ²				7.340 M ²			
Air Velocity	m/sec	S ₁	S ₂	S ₃	S ₄	S ₁	S ₂	S ₃	S ₄
R ₁		18.8	17.5	14.5	17.5	14.0	15.5	12.4	15.5
R ₂		19.3	19.5	17.3	19.1	16.2	17.3	14.2	18.2
R ₃		16.2	16.5	14.5	16.5	15.3	16.1	15.1	15.8
R ₄		7.1	12.5	12.5	12.5	12.9	11.5	14.1	12.3
R ₅		5.2	6.5	3.0	2.5	4.1	4.4	7.1	5.8
Av. Air Velocity	m/sec	268.9 ÷ 20 = 13.44 m/sec				259.6 ÷ 20 = 12.98 m/sec			
Air Flow	m ³ /sec	13.44 × 7.030 = 94.48 m ³ /sec				12.98 × 7.340 = 95.27 m ³ /sec			
Connected Motor	kW	22 kW				22 kW			
Supply Voltage	Volt	418	417	419	418	444	441	441	442
Motor Current	Ams.	23.5	25.0	24.1	24.2	19.3	19.1	19.1	19.16
Consumed Power	kW				14.01				10.12
Power Factor	-	0.81	0.81	0.79	0.80	0.69	0.68	0.71	0.69
Power Saving	%					27.76 %			

Remark

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25/08/07
Engineer

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Maya Fan Air Engineering Pvt. Ltd.