

MAYA FAN AIR ENGINEERING

LIG - 141, Jawahar Nagar,
A. B. Road, DEWAS - 455 001
Ph : 07272-508942, 328890



Customer : Reliance Industries Limited, Hazira

Fan Model : MAYA-CTAP-MA08B-8534-J28

Plant : CPP Cooling Tower - 2

Tag : 1353E

Date : 02/05/2004

FAN PERFORMANCE REPORT

	Unit	Existing Hollow FRP Fan				Maya FRP Fan			
		S ₁	S ₂	S ₃	S ₄	S ₁	S ₂	S ₃	S ₄
Fan Diameter	mm	8534				8535			
Hub Diameter	mm	2400				1850			
Fan casing diameter	mm	8600				8600			
Number of Blades	Nos.	6				8			
Blade Angle	Degree	-				18 at tip			
Area at measuring section	m ²	63.36				63.36			
Hub Area	m ²	4.52				2.69			
Discharge Area	m ²	58.84				62.85			
Air Velocity	m/sec	S ₁	S ₂	S ₃	S ₄	S ₁	S ₂	S ₃	S ₄
	R ₁	5.1	5.2	4.9	5.0	6.4	5.9	5.7	5.4
	R ₂	10.0	10.0	9.7	9.1	10.1	9.7	9.5	9.7
	R ₃	11.3	10.9	11.0	11.5	12.0	11.8	11.7	11.8
	R ₄	10.9	10.6	11.0	10.8	11.8	10.9	10.8	11.0
	R ₅	4.6	5.1	5.2	4.2	6.0	5.7	5.4	5.9
Av. Air Velocity	m/sec	8.305				8.86			
Air Flow	m ³ /sec	1035368.645				1179911.584			
Connected Motor	kW	90				90			
Supply Voltage	Volt	435				436			
Motor Current	Amps.	89.4				72.4			
Consumed Power	kW	55.91				44.29			
Power Factor	-	0.83				0.81			
Power Saving	%					20.79			

Remark

Engineer

Maya Fan Air Engineering

Signature

Signature