

**Maya Fan Air Engineering Private Limited**

Plot No. 53B, Industrial Area No.1,  
 A. B. Road, Dewas - 455 001  
 Ph. 07272-552672, 09229721535, 09302328890  
 Fax. 07272 - 251456  
 E-mail : info@mayafanfrp.com

Date 9 1 2007

Customer Name : **Torrent Power AEC Limited, Ahmedabad**

Fan Model : MAYA-CTAP-MA08-J33M

Tag no.: Station 'E' Fan no. '2B'

**Fan Field Performance Test Report**

		Existing Fan				"MAYA" FRP Fan							
	Unit												
Fan Diameter	mm	10000				10000							
Hub Diameter	mm	2000				2000							
Fan Casing Diameter	mm	10100				10100							
Number of Blades	Nos.	8				8							
Blade Angle	Dgree	13				13							
Area of Measuring Section	m <sup>2</sup>	92.002				92.002							
Hub Area	m <sup>2</sup>	3.1415				3.1415							
Discharge Area	m <sup>2</sup>	92.002				92.002							
Air Velocity	m/Sec.	E	W	N	S	E	W	N	S				
R1	269					6.3	7.2	6.4	6.8	6.3	6.5	6.2	6.4
R2	855					8.3	8.5	6.9	7.2	6.2	6.8	6.7	6.9
R3	1529					7.7	8.2	6.7	6.9	7.7	8.2	7.4	8.0
R4	2347					7.2	7.3	6.2	6.4	7.9	8.4	8.0	8.2
R5	3486					7.0	7.2	7.0	7.1	6.9	7.1	7.5	7.6
Average Air Velocity	m/Sec.	#DIV/0!				7.1850							
Air Flow	m <sup>3</sup> /Sec.	#DIV/0!				661.03437							
	CFM	#DIV/0!				1400652.506							
Connected Motor	Kw	75				75							
		R	Y	B	Avg.	R	Y	B	Avg.				
Supply Voltage	Volt	422	422	418	420.66	413	411	414	412.66				
Motor Current	A	81	83	82	82	68.5	74	72.6	79.2	71.5	70.3	70.86	
Consumed Power	kW	14	14.6	13.5	42.1	11	14.9	11.4	15	10.6	13.1	33.00	
Power Factor	-	0.72	0.71	0.75	0.73	0.64	0.83	0.63	0.78	0.62	0.78	0.63	
Power Saving	%					21.62							

Remarks:

Engineer  
 Maya Fan Air Engineering Pvt. Limited

Sign./Designation  
 TPL / S. E.

Sign./Designation  
 TPL / A. M. (CT.)

**Maya Fan Air Engineering Private Limited**

Plot No. 53B, Industrial Area No.1,  
 A. B. Road, Dewas - 455 001  
 Ph. 07272-552672, 09229721535, 09302328890  
 Fax. 07272 - 251456  
 E-mail : info@mayafanfrp.com

Customer Name : **Torrent Power Limited, Ahmedabad**

Fan Model : MAYA-CTAP-08BMA-J33M

Blade set no:-114

Tag no.: 'E' Station Fan no: "2D"

Date: 05/12/2007

**Fan Field Performance Test Report**

		Existing Fan				"MAYA" FRP Fan			
		Unit							
Fan Diameter	mm	10000				10000			
Hub Diameter	mm	2000				2000			
Fan Casing Diameter	mm	10100				10100			
Number of Blades	Nos.	8				8			
Blade Angle	Degree	15				15.5			
Area of Measuring Sect	m <sup>2</sup>	92.002				92.002			
Hub Area	m <sup>2</sup>	3.1415				3.1415			
Discharge Area	m <sup>2</sup>	92.002				92.002			
Air Velocity	m/Sec.	S1	S2	S3	S4	S1	S2	S3	S4
R1	269	7.2	5.2	7.3	6.5	8.0	5.0	8.5	15.0
R2	855	9.8	7.2	9.5	8.2	9.5	6.0	8.7	10.2
R3	1529	9.2	8.9	10.7	9.0	8.0	4.5	7.8	7.8
R4	2347	8.4	8.6	9.3	9.5	8.5	7.0	8.4	8.2
R5	3486	5.1	5.2	6.0	5.3	10.5	7.5	12.0	12.0
Average Air Velocity	m/Sec.	7.81				8.66			
Measured Air Flow	m <sup>3</sup> /Sec.	718.08				796.28			
	m <sup>3</sup> /hr.	2585072.20				2866598.32			
Connected Motor	Kw	75.0				75.0			
				Avg.				Avg.	
Supply Voltage	Volt	438.0		437.6		437.8		431.7	
Motor Current	A	94.0		93.3		93.65		62.2	
Power Factor	-	0.820		0.820		0.820		0.702	
Consumed Power	kW	58.30				32.40			
By calculation	kW	58.16				32.97			
Measured Energy cons.	kWh	57.64				32.38			
Power Saving	%					43.83			
Remarks	When we measured air flow of CTID-2D at that time fan E was running & fan C was switched off.								

Engineer  
 Maya Fan Air Engineering Pvt. Limited

*B. R. Rana*

R.P. Patil  
 Sign./ Designation  
 (exe.)

**Maya Fan Air Engineering Private Limited**

Plot No. 53B, Industrial Area No.1,  
 A. B. Road, Dewas - 455 001  
 Ph. 07272-552672, 09229721535, 09302328890  
 Fax. 07272 - 251456  
 E-mail : info@mayafanfrp.com

Date 8 1 2007

Customer Name : **Torrent Power AEC Limited, Ahmedabad**

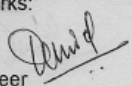
Fan Model : MAYA-CTAP-MA08-J33M

Tag no.: Station 'E' Fan no. "E"

**Fan Field Performance Test Report**

		Existing Fan								"MAYA" FRP Fan							
Unit																	
Fan Diameter	mm	10000								10000							
Hub Diameter	mm	2000								2000							
Fan Casing Diameter	mm	10100								10100							
Number of Blades	Nos.	8								8							
Blade Angle	Dgree	13.5								15							
Area of Measuring Sec	m <sup>2</sup>	92.002								92.002							
Hub Area	m <sup>2</sup>	3.1415								3.1415							
Discharge Area	m <sup>2</sup>	92.002								92.002							
Air Velocity	m/Sec.	E		W		N		S		E		W		N		S	
R1	269	4.8	5.0	4.6	5.0	7.9	8.4	5.2	5.6	4.9	5.0	5.2	5.9	7.8	8.6	6.9	7.3
R2	855	6.7	7.1	6.6	8.5	9.5	10.0	7.0	7.9	6.2	6.3	6.8	7.2	8.2	8.5	8.3	8.9
R3	1529	8.6	9.0	8.7	9.0	9.5	10.1	8.2	9.0	7.3	7.4	6.1	6.5	7.6	8.0	7.5	7.7
R4	2347	9.0	9.3	8.4	9.0	9.3	10.2	9.2	9.6	6.8	6.9	6.9	7.2	7.6	7.9	7.4	7.7
R5	3486	7.8	8.5	6.6	7.4	5.2	5.9	6.5	7.4	7.4	7.5	6.5	6.9	7.9	8.2	7.2	7.5
Average Air Velocity	m/Sec.	7.7788								7.1900							
Air Flow	m <sup>3</sup> /Sec.	715.6605575								661.49438							
	CFM	1516398.842								1401627.212							
Connected Motor	Kw	75								75							
		R	Y	B	Avg.				R	Y	B	Avg.					
Supply Voltage	Volt	247	237	241					415	414	410	413					
Motor Current	A	81.7	81.6	81.2	81.5				61.6	74	62.6	79.2	61.2	70.3	61.80		
Consumed Power	kW	16.7	16.7	16.8	59.07				11.9	14.9	12.4	15	12.4	13.1	36.70		
Power Factor	-	0.86	0.87	0.85	0.86				0.83	0.83	0.83	0.78	0.83	0.78	0.83		
Power Saving	%									37.87							

Remarks:

Engineer   
 Maya Fan Air Engineering Pvt. Limited

Sign./ Designation  
 TPL / S.E.

Sign./ Designation  
 TPL / A.M.(CT.)

**Maya Fan Air Engineering Private Limited**

Plot No. 53B, Industrial Area No.1,  
 A. B. Road, Dewas - 455 001  
 Ph. 07272-552672, 09229721535, 09302328890  
 Fax. 07272 - 251456  
 E-mail : info@mayafanfrp.com

Customer Name : *Torrent Power Limited, Ahmedabad*

Fan Model : MAYA-CTAP-08BMA-J33M

Blade set no:-113

Tag no.: 'E' Station Fan no. "2F"

Date:- 06/12/2007

**Fan Field Performance Test Report**

		Existing Fan				"MAYA" FRP Fan			
	Unit								
Fan Diameter	mm	10000				10000			
Hub Diameter	mm	2000				2000			
Fan Casing Diameter	mm	10100				10100			
Number of Blades	Nos.	8				8			
Blade Angle	Degree	12				15			
Area of Measuring Sec	m <sup>2</sup>	92.002				92.002			
Hub Area	m <sup>2</sup>	3.1415				3.1415			
Discharge Area	m <sup>2</sup>	92.002				92.002			
Air Velocity	m/Sec.	S1	S2	S3	S4	S1	S2	S3	S4
R1	269	4.2	10.5	8.3	6.9	4.4	6.8	6.4	7.2
R2	855	4.1	8.3	7.8	9.1	4.6	8.5	5.1	8.6
R3	1529	8.4	7.7	8.9	12.5	5.6	6.9	6.3	9.1
R4	2347	4.2	7.3	9.7	8.6	7.8	9.9	10.8	12.5
R5	3486	4.5	8.1	4.3	10.9	9.4	9.4	9.1	9.0
Average Air Velocity	m/Sec.	7.72				7.87			
Measured Air Flow	m <sup>3</sup> /Sec.	709.80				724.06			
	m <sup>3</sup> /hr.	2555263.55				2606600.66			
Connected Motor	kW	75.0				75.0			
		Avg.				Avg.			
Supply Voltage	Volt	428.8	428.9	428.85		434.0		434.0	434.00
Motor Current	A	84.1	84.3	84.2		66.0		65.7	65.85
Power Factor	-	0.802	0.802	0.802		0.699		0.699	0.699
Consumed Power	kW	50.2				34.60			
By calculation	kW	50.10				34.56			
Measured energy cons.	kwh	49.85				33.94			
Power Saving	%					31.92			

Remark : When we measured air flow of CTID-2F at that time fan E was running

Engineer  
 Maya Fan Air Engineering Pvt. Limited

*D. K. Raner*

*R.P. Patil*  
 (exg)  
 Sign./ Designation

**MAYA FAN AIR ENGINEERING Pvt. Ltd.**

Plot No.53B, Industrial Area No. 1,  
A. B. Road, DEWAS - 455 001  
Ph : 07272-258734, 328890 Fax. 07272 - 251456  
Email : info@mayafanfrp.com

Customer : Tosent Power AEC Limited, Ahmedabad.  
Fan Model : MAYA-CTAP-MA08-JBM  
Plant : f Station,  
Tag : Fan No. E

Date : 02/02/2006

**FAN PERFORMANCE REPORT**

	Unit	Existing Fan				Maya FRP Fan			
Fan Diameter	mm	10000				10000			
F <sub>0</sub> Diameter	mm	2000				2000			
Fan casing diameter	mm	10060				10060			
Number of Blades	Nos.	08				08			
Blade Angle	Degree	approx 13°				15°			
Area at measuring section	m <sup>2</sup>	92.002				92.002			
Hub Area	m <sup>2</sup>	3.1415				3.1415			
Discharge Area	m <sup>2</sup>								
Air Velocity	m/sec	E S <sub>1</sub>	W S <sub>2</sub>	N S <sub>3</sub>	S S <sub>4</sub>	E S <sub>1</sub>	S S <sub>2</sub>	W S <sub>3</sub>	N S <sub>4</sub>
269 mm	R <sub>1</sub>	08-13	54-57	68-76	27-35	59-65	45-47	69-76	37-42
855 mm	R <sub>2</sub>	83-4.6	66-79	89-95	55-57	68-78	72-81	84-87	71-76
1529 mm	R <sub>3</sub>	62-7.2	71-75	90-93	72-74	61-68	69-76	68-76	65-71
2347 mm	R <sub>4</sub>	71-7.8	65-7.5	78-8.1	60-7.1	61-6.7	60-6.2	61-6.5	55-5.8
3486 mm	R <sub>5</sub>	62-7.2	37-4.1	4.8-5.4	4.1-5.1	5.8-6.5	7.4-8.2	6.6-7.7	7.1-7.5
A Air Velocity	m/sec	6.125				6.67			
Air Flow	m <sup>3</sup> /sec	563.513 (11,94,018)				613.65 (1300257.7 cfm)			
Connected Motor	kW	75.0				75.0			
Supply Voltage	Volt	426.0				427.0			
Motor Current	Ams.	37.90				67.78			
Consumed Power	kW	59.07				36.25			
Power Factor	-					0.725			
Power Saving	%	-				38.63%			

Remark

Engineer [Signature]  
Maya Fan Air Engineering Pvt. Ltd.

Signature [Signature]  
3/2/06

Signature [Signature]  
P. K. MACKWANA A.M.(T)  
3/2/06

Enclosed :- Annexure A for Power Consumption Readings.

Maya Fan Air Engineering Private Limited  
 Plot No. 53B, Industrial Area No.1,  
 A. B. Road, Dewas - 455 001  
 Ph. 07272-552672, 09229721535, 09302328890  
 Fax. 07272 - 251456  
 E-mail : info@mayafanfrp.com

Customer Name : *Torrent Power AEC Limited, Ahmedabad*

Fan Model : MAYA-CTAP-MA08-J33M

Tag no.: Station 'F' Fan no. 'C'

Date : 02/04/2008

**Fan Field Performance Test Report**

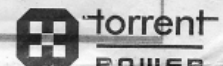
	Unit	Existing Fan								"MAYA" FRP Fan							
		E		W		N		S		E		W		N		S	
Fan Diameter	mm	10000								10000							
Hub Diameter	mm	2000								2000							
Fan Casing Diameter	mm	10100								10100							
Number of Blades	Nos.	8								8							
Blade Angle	Dgree	13								15							
Area of Measuring Se	m <sup>2</sup>	92.002								92.002							
Hub Area	m <sup>2</sup>	3.1415								3.1415							
Discharge Area	m <sup>2</sup>	92.002								92.002							
Air Velocity	m/Sec.	E		W		N		S		E		W		N		S	
R1	289	3.9	4.5	6.1	7.0	3.2	3.8	2.7	3.7	4.0	4.4	8.5	8.8	4.7	5.3	5.8	6.2
R2	855	6.3	6.7	7.8	8.4	4.9	5.0	7.2	8.2	6.5	6.8	7.5	7.7	7.2	8.0	6.8	8.3
R3	1529	7.3	7.3	8.2	8.5	5.8	6.8	7.7	8.3	5.6	5.7	5.9	6.5	6.8	6.9	6.1	7.2
R4	2347	6.8	7.3	4.9	6.0	7.5	8.1	7.6	8.1	4.7	4.8	6.0	6.6	5.4	6.2	5.4	5.9
R5	3486	4.3	5.2	2.4	3.3	4.3	5.0	6.5	6.7	5.5	5.6	6.5	7.3	5.2	6.2	6.2	6.8
Average Air Velocity	m/Sec.	6.0825								6.2775							
Air Flow	m <sup>3</sup> /Sec.	559.602								577.543							
	CFM	1185729.835								1223743.369							
Connected Motor	Kw	75								75							
		R		Y		B		Avg.		R		Y		B		Avg.	
Supply Voltage	Volt	426		427		427		426.67		426		424		425		425.00	
Motor Current	A	89	94	92	95	88	93	91.88	63	65	63	65	61	65	63.50		
Consumed Power	kW	18	18	19	20	19	20	56.55	11	12	11	12	11	13	35.35		
Power Factor	-	0.8	0.9	0.8	0.9	0.8	0.9	0.84	0.8	0.8	0.7	0.8	0.7	0.8	0.77		
Power Saving	%									37.49							

Remarks:

Engineer *[Signature]*  
 Maya Fan Air Engineering Pvt. Limited

Sign/ Designation

*[Signature]*  
 N. J. GADJAJAR  
 Executive (TMS)  
 Sign/ Designation  
 TPAECL





TORRENT POWER AEC LIMITED

**Maya Fan Air Engineering Private Limited**

Plot No. 53B, Industrial Area No.1,  
A. B. Road, Dewas - 455 001  
Ph. 07272-552672, 09229721535, 09302328890  
Fax. 07272 - 251456  
E-mail : info@mayafanfrp.com

Date : 30/03/2008

Customer Name : *Torrent Power AEC Limited, Ahmedabad*

Fan Model : MAYA-CTAP-MA08-J33M

Tag no.: Station 'F' Fan no. 'E'

**Fan Field Performance Test Report**

	Unit	Existing Fan								"MAYA" FRP Fan							
		E		W		N		S		E		W		N		S	
Fan Diameter	mm	10000								10000							
Hub Diameter	mm	2000								2000							
Fan Casing Diameter	mm	10100								10100							
Number of Blades	Nos.	8								8							
Blade Angle	Dgree	13								16							
Area of Measuring Se	m <sup>2</sup>	92.002								92.002							
Hub Area	m <sup>2</sup>	3.1415								3.1415							
Discharge Area	m <sup>2</sup>	92.002								92.002							
Air Velocity	m/Sec.	E		W		N		S		E		W		N		S	
R1	269	0.8	1.3	5.4	5.7	6.6	7.6	2.7	3.5	7.1	8.1	5.9	6.6	5.4	5.9	6.1	6.7
R2	855	3.3	4.6	6.6	7.9	8.9	9.5	5.5	5.7	7.2	7.8	8.0	8.5	6.1	7.8	7.8	8.2
R3	1529	6.2	7.2	7.1	7.5	9.0	9.3	7.2	7.4	6.4	6.9	6.2	6.7	6.3	6.8	6.1	6.6
R4	2347	7.1	7.8	6.5	7.5	7.8	8.1	6.0	7.1	5.5	6.2	5.9	6.6	5.5	5.8	5.8	6.0
R5	3488	6.2	7.2	3.7	4.1	4.8	5.4	4.1	5.1	5.2	5.7	5.8	6.2	6.0	7.0	6.1	6.5
Average Air Velocity	m/Sec.	6.1250								6.5100							
Air Flow	m <sup>3</sup> /Sec.	563.51225								598.93302							
	CFM	1194014.836								1289087.197							
Connected Motor	Kw	75								75							
		R		Y		B		Avg.		R		Y		B		Avg.	
Supply Voltage	Volt							426		425		425		425		426	
Motor Current	A							97.9		71		74		78		73.02	
Consumed Power	kW							59.07		14		15		13		40.90	
Power Factor	-									0.8		0.8		0.7		0.77	
Power Saving	%									30.76							

Remarks:

Engineer  
Maya Fan Air Engineering Pvt. Limited

Sign./ Designation

Sign./ Designation

TPAEC

**MAYA FAN AIR ENGINEERING Pvt. Ltd.**

Plot No.53B, Industrial Area No. 1,  
 A. B. Road, DEWAS - 455 001  
 Ph : 07272-552672, 09229721535, 09302328890 Fax. 07272 - 251456  
 Email : info@mayafanfrp.com



Customer : Torrent Power AEC Limited, Ahmedabad  
 Fan Model : MAYA-CTAP-MA08-J33M  
 Plant : Generation Power Plant  
 Tag : CT-ID Fan-F

Date: 09/12/2006

**FAN PERFORMANCE REPORT**

Unit	Existing Fan								Maya FRP Fan								
Fan Diameter	mm	10000								10000							
Hub Diameter	mm	2000								2000							
Fan casing diameter	mm	10100								10100							
Number of Blades	Nos.	8								8							
Blade Angle	Drgee	13								15° at tip							
Area at measuring section	m <sup>2</sup>	92.002								92.002							
Hub Area	m <sup>2</sup>	3.142								3.142							
Discharge Area	m <sup>2</sup>	92.002								92.002							
Air Velocity	m/sec	S <sub>1</sub>		S <sub>2</sub>		S <sub>3</sub>		S <sub>4</sub>		S <sub>1</sub>		S <sub>2</sub>		S <sub>3</sub>		S <sub>4</sub>	
R <sub>1</sub>	269	4.6	5.8	3.2	4.4	0.2	0.6	4.5	5.4	8.9	6.5	3.6	4.8	6.4	6.8	4.6	5.4
R <sub>2</sub>	855	8.1	8.5	5.4	6.8	2.9	3.2	7.7	8.2	6.6	7.0	5.1	5.5	6.9	7.6	7.8	8.0
R <sub>3</sub>	1529	8.6	9.0	7.8	8.3	4.8	5.4	7.0	8.1	6.2	6.6	4.6	5.8	6.4	6.6	6.8	7.2
R <sub>4</sub>	2347	8.1	8.4	6.7	8.4	7.9	8.4	4.8	6.0	6.6	6.9	4.4	5.5	5.9	6.4	7.1	7.5
R <sub>5</sub>	3486	4.3	5.3	5.2	6.1	5.9	6.3	1.0	1.6	6.6	7.0	6.5	7.5	7.0	7.5	5.7	6.0
Av. Air Velocity	m/sec	5.83 m/sec.								6.39 m/sec.							
Air Flow	m <sup>3</sup> /sec	536.37 m <sup>3</sup> /sec. (1136503.0 CFM)								587.89 m <sup>3</sup> /sec.							
	CFM	1136503.0								1245668.0 CFM							
Connected Motor	kW	75.0								75.0							
		R		Y		B		Avg.		R		Y		B		Avg.	
Supply Voltage	Volt	244		244		244		244		247.2		248.5		246.7		247.5	
Motor Current	Ams.	87.8		89.4		89.1		88.78		66.8		67.6		63.7		66.03	
Consumed Power	kW	18.6		18.1		19.0		15.70		12.6		12.5		11.5		36.6	
Power Factor	-	0.85		0.85		0.90		0.867		0.77		0.74		0.74		0.75	
Power Saving	%									34.3 %							

Remark

*[Signature]*

Engineer  
 Maya Fan Air Engineering Pvt. Ltd.

Signature

*[Signature]*  
 9/12/06

Signature