

Report No. EMTL / 1064-1

Date: 11th October, 2022

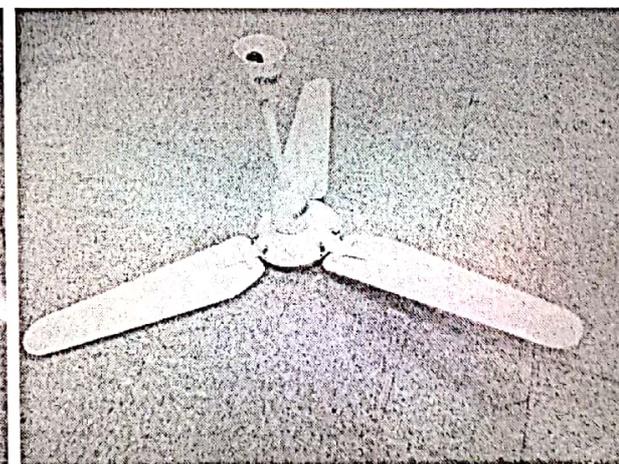
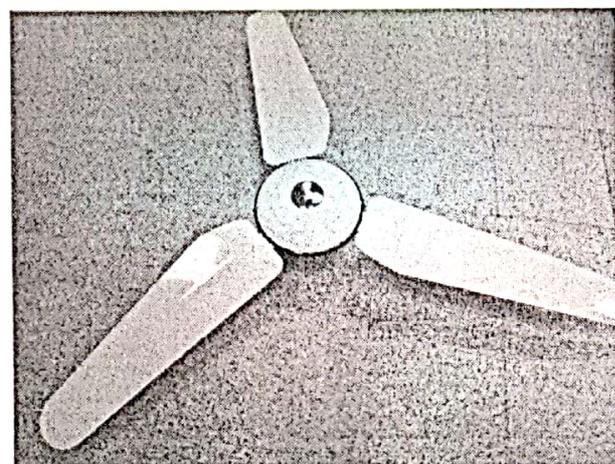
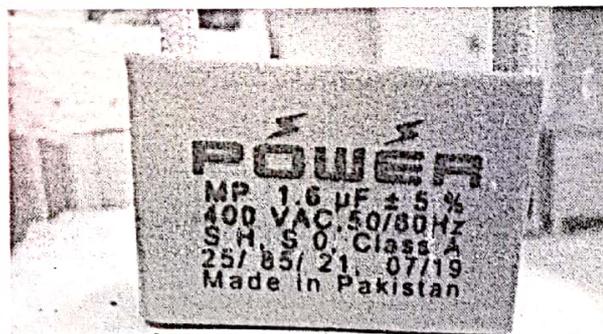
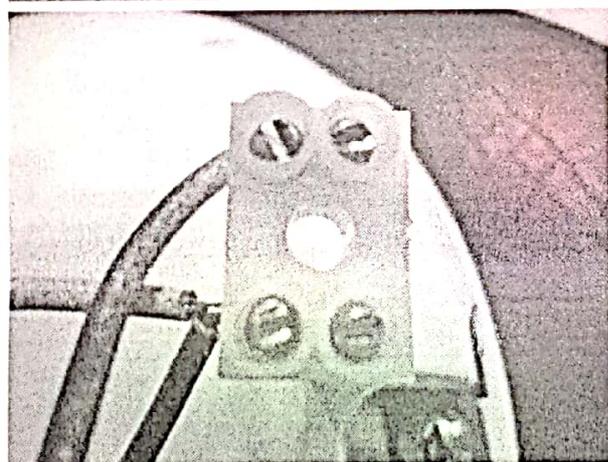
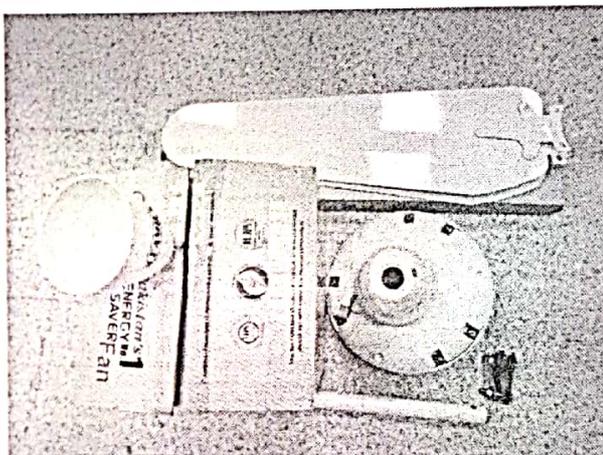
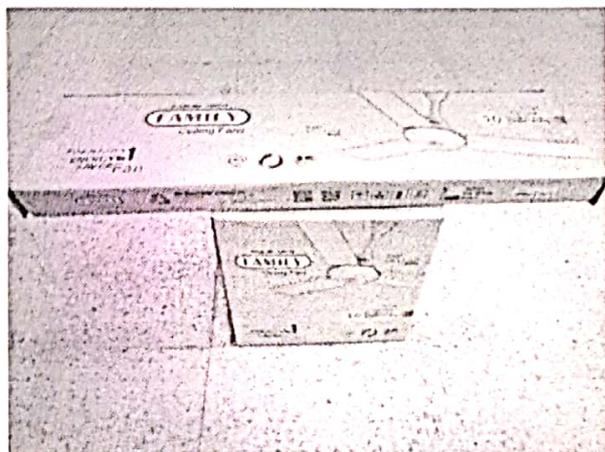
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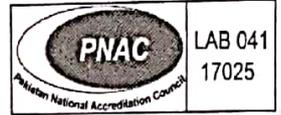
Annexure – 2

PHOTOGRAPHS OF THE TESTED PRODUCT

Product: Ceiling Fan
Model: Super Deluxe
Rated Frequency: 50 Hz

Trade Mark: Family Fans
Rated Voltage: 230±10% VAC
Sweep Size: 1400 mm





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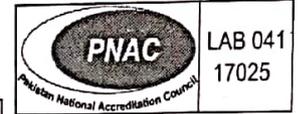
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PS : 1 / 2010			
PERFORMANCE AND CONSTRUCTION OF ELECTRIC FANS AND REGULATORS			
Clause	Requirement – Test	Result - Remark	Verdict
9.3.2	Fans shall be tested at rated frequency, if marked. For a fan with a range of frequencies, the tests shall be made at the frequency which gives the most unfavourable results. For a fan not marked with rated frequency the tests shall be made either at 50Hz or 60Hz whichever is more unfavourable.	50 Hz	P
9.3.3	Limits of voltage variation The variation in the voltage shall not exceed $\pm 1\%$ of the test voltage during air performance tests, while taking the current and wattage readings during these tests, however, the voltage shall be the test voltage.	-	P
9.4	Test for Air Performance (Air Delivery Test) The test shall be carried out at an ambient temperature of $20 \pm 5^\circ\text{C}$ The air delivery measured in accordance with test method described for determining the air performances of a particular type of fan shall not be less than the permissible value as given in Appendix – A of PS-1/2010.	Measured air delivery = $246.2 \text{ m}^3/\text{min}$ Standard requirement: Air delivery = $250 \text{ m}^3/\text{min}$ Deviation = -1.52% Permissible deviation = -10%	P
9.5	Measurement of speed of the fan The measured value of fan speed shall not be greater than the permissible value as given in the Appendix – A of PS-1/2010.	Measured speed = 328 rpm Standard requirement: Maximum speed $\leq 330 \text{ rpm}$	P
9.6	Measurement of power factor (for a.c fans only) and power input Power factor shall not less than the 0.9 permissible value as given in the Appendix – A of PS-1/2010. The measured power input shall not be greater than the permissible value as given in the Appendix – A of PS-1/2010.	Measured power factor = 0.98 Standard requirement: Power factor = 0.9	P
		Measured power input = 54.5 W Standard requirement: Power input = 80 W Deviation = -31.88% Permissible deviation = $+10\%$	P
-	Service Value The service value shall not be less than the minimum value as per Appendix – A of PS-1/2010.	Measured service value = $4.518 \text{ m}^3/\text{min}/\text{w}$ Standard requirement: Min. service value $\geq 3.12 \text{ m}^3/\text{min}/\text{w}$ 3-Star NEECA requirement: Min. service value $\geq 3.45 \text{ m}^3/\text{min}/\text{w}$	P

- Note:**
- The speed reduction test was not performed as the speed regulator was not provided by the manufacturer.
 - The rated values of air delivery and power input are given as per Appendix – A of PS-1/2010.
 - Air Velocity Curve of the tested sample of ceiling fan is attached as Annexure –1.
 - The Photographs of the tested product is attached as Annexure –2.

**Pakistan Council of Scientific & Industrial Research**

LABORATORIES COMPLEX, FERAZEPUR ROAD, LAHORE – 54600

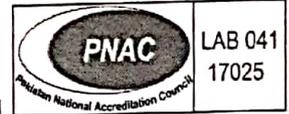
Annexure-12 | Doc.# EMTL/A-12/01 | Issue # 02 | Issue Date: 1st July, 2011 | Rev. # 00LAB 041
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PS : 1 / 2010 PERFORMANCE AND CONSTRUCTION OF ELECTRIC FANS AND REGULATORS			
Clause	Requirement – Test	Result - Remark	Verdict
8	MARKING		
8.1	Size of fan (Sweep in millimeters)	1400 mm	P
	Rated voltage or voltage range in volts.	230±10% VAC	P
	Symbol for nature of supply, unless the rated frequency is marked.	50 Hz	P
	Rated power input in watts or rated current in amperes	53±10% Watt	P
	Name, trade mark or identification mark of the manufacturer or responsible vendor.	Family	P
	Model or type reference.	Super Deluxe	P
	Separately mounted regulators shall be marked with the model / size of fans for which they are suited.	Speed Regulator Unit Not Provided	N
8.2	The following information shall be supplied on request:	-	-
	Power factor.	-	-
	Rated speed in revolutions per minute.	330±10% rpm	P
	Number of blades.	03	P
	Type of regulators and number of running positions.	-	-
	Class of insulation.	F	P
	Type of bearings.	-	-
	Rated air delivery.	-	-
	Service value.	-	-
9	TESTS		
9.3	Test voltage and frequency The voltage and frequency at which the tests are conducted shall be as follows:		
9.3.1	When a rated voltage is indicated on the nameplate, the tests shall be conducted at the rated voltage. If the fan specified for two or more distinct rated voltages, the tests shall be carried out at the most unfavourable voltage. When a voltage range is indicated on the nameplate, the test voltage shall be:	230 V~	P
-	The highest and the lowest values of the range when voltage range is in excess of 10% of the mean of the range.	-	N
-	The mean of the upper and lower limits when the voltage range is 10% or less of the mean of the range.	-	N



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**TERMS & CONDITIONS GOVERNING PRODUCT TESTING & CALIBRATION SERVICES
PROVIDED BY PCSIR LABORATORIES COMPLEX, LAHORE – PAKISTAN****This report is issued under the following conditions:**

1. Results of the testing / calibration in the form of report will be issued immediately after the job has been completed or terminated.
2. Unless otherwise requested, a report shall contain only technical results. Analysis and interpretation of the results and professional opinion / recommendations expressed thereupon, if required, shall be clearly requested and additional fee will be charged from the customer.
3. This report is applicable only to the sample of the specific product / equipment given for its testing / calibration. The results are not used to indicate or imply that they are applicable to other similar items. Neither should such results be used to indicate or imply that PCSIR Laboratories Complex, Lahore approves, certifies, recommends or endorses the manufacturer, supplier or user of such product / equipment or that PCSIR Laboratories Complex, Lahore in any way "guarantees" the later performance of the product/equipment.
4. The sample(s) mentioned in this report has/ have been submitted / supplied / manufactured by the customer. PCSIR Laboratories Complex, Lahore, therefore, assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacturer, consignment or any other information supplied.
5. Single original copy of report will be issued to the customer. No third party can obtain a copy of this report through PCSIR Laboratories Complex, Lahore unless the customer has authorized PCSIR Laboratories in writing along with clear instructions as to who the recipient(s) shall be.
6. The report/results shall not be reproduced wholly or in parts and the customer shall not make any reference of PCSIR / its logo / its report(s) / result(s), for advertisement or sales promotion purposes unless negotiated otherwise.
7. Upon job completion, the tested sample will be retained at the respective Labs for four weeks time unless negotiated otherwise. Upon expiry of this period, the customer shall collect all products / equipment within fifteen days. If the customer fails to collect the product / equipment within the stipulated time frame, PCSIR Laboratories Complex, Lahore shall proceed to dispose the product/ equipment in any manner it deems fit and no claim shall be entertained.
8. PCSIR Laboratories Complex, Lahore shall not under any circumstances be responsible for any loss or damage to product / equipment during transit or while in the custody of PCSIR Laboratories Complex, Lahore. All reasonable care will be taken when the product / equipment is in the custody of PCSIR Laboratories Complex, Lahore. However, insurance against accidental loss or damage, either in transit or at PCSIR Laboratories Complex, Lahore shall be arranged and paid by the customer.
9. Subject to the provision stated herein, PCSIR Laboratories Complex, Lahore shall not under any circumstances be liable for any direct or indirect loss or damage suffered by the customer, arising from the services provided by PCSIR Laboratories Complex, Lahore. PCSIR Laboratories Complex, Lahore warrants that it will exercise extra care and diligence in performing the job as agreed with the customer. In the event that PCSIR Laboratories Complex, Lahore is found liable to the customer(s) by operation of law, the maximum extent of PCSIR Laboratories Complex, Lahore's Liability shall not exceed the amount of fees paid by the customer to PCSIR Laboratories Complex, Lahore in respect of the testing / calibration services.
10. In the event any of the employees of PCSIR Laboratories Complex, Lahore being requested by the Customer or summoned by Court upon application by the customer or any other parties for attendance in court as an expert witness on the subject of the testing / calibration services provided, the customer agrees and shall pay the cost to PCSIR Laboratories Complex, Lahore for such attendance in court.
11. The customer shall indemnify PCSIR Laboratories Complex, Lahore fully against all damages suffered and cost and expenses incurred by PCSIR Laboratories, Complex, Lahore and all claims by any third parties as a result of any breach of the terms and conditions herein by the custom.



TEST REPORT

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TEST REPORT

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Testing Laboratory																	
Name:	Electrical Measurement & Test Laboratory																
Address:	PCSIR Laboratories Complex, Ferozpur Road, Lahore – 54600, Pakistan																
Testing Location:	Same as above																
Job Code #	1064-1																
ILO Log # & Date:	50 / 04-10-2022																
Customer																	
Name:	Ali Electrical Industries																
Address:	Office No. 1, Ali Electrical Industries Building Near Punjab College, G. T. Road, Gujranwala.																
Request Ref. & Date:	Nil																
Test Specification																	
Standard:	PS : 1 / 2010 Performance and Construction of Electric Fans and Regulators																
Test Procedure:	PS : 1 / 2010 Performance and Construction of Electric Fans and Regulators																
Procedure Deviation:	N.A.																
Non-standard Test Method:	N.A.																
Test Item Description																	
Type of Fan:	Ceiling Fan																
Size of Fan (Sweep in millimeters):	1400 mm																
Manufacturer / Supplier Name	Ali Electrical Industries																
Address:	Near Punjab College G. T. Road, Gujranwala																
Trade / Brand Mark:	Family																
Model / Type Reference:	Super Deluxe																
Power:	53±10% Watt																
Voltage:	230±10% VAC																
Frequency:	50 Hz																
Rating of Capacitor:	1.6 µF ±5%, 400VAC, 50/60 Hz																
Copy of Marking Plate / Label																	
<table border="1"><thead><tr><th colspan="2">ELECTRIC FAN (SINGLE PHASE)</th></tr></thead><tbody><tr><td>Model</td><td>SUPER DELUX MODEL (Energy Saver)</td></tr><tr><td>Sweep Size</td><td>1400mm (50")</td></tr><tr><td>Rated Voltage</td><td>230, 10V</td></tr><tr><td>Rated Frequency</td><td>50Hz</td></tr><tr><td>Revolution Per Min</td><td>330, 10%</td></tr><tr><td>Rated Power</td><td>53 W, 10%</td></tr><tr><td>Insulation Class</td><td>F</td></tr></tbody></table>		ELECTRIC FAN (SINGLE PHASE)		Model	SUPER DELUX MODEL (Energy Saver)	Sweep Size	1400mm (50")	Rated Voltage	230, 10V	Rated Frequency	50Hz	Revolution Per Min	330, 10%	Rated Power	53 W, 10%	Insulation Class	F
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Test Case Verdicts	
Test case does not apply to the test object:	N(.A.)
Test item does meet the requirement:	P(ass)
Test item does not meet the requirement:	F(ail)
Testing	
Date of Receipt of Test Item:	04-10-2022
Date (s) of Performance of Test:	06-10-2022 to 11-10-2022
General Remarks	
The supplied sample of Ceiling Fan 56" (1400mm) Brand: Family, Model: Super Deluxe was tested in accordance with requirements of PS : 1 / 2010. The test results are hereby submitted for the client information.	

Report:

Prepared by: Muhammad Shoaib
Principal Technician

M. Shoaib 11-10-22
(Signature)

Reviewed by: Muhammad Azhar
Head, Electrical Measurement & Test Laboratory

Muhammad Azhar
11/10/22
(Signature)

Approved by: *Dr. Quratulain Syed*
Director General

Dr. Quratulain Syed
(Signature)

12-10-22



Note:

The Test Results and the Terms & Conditions Governing Testing and Calibration Services provided by PCSIR Laboratories Complex, Lahore – Pakistan are attached herewith.