

Calibration Certificate

UNIT DESCRIPTION:	CLINICAL CENTRIFUGE	MODEL NO.:	C - 854/8
SR. NO.:	ZGIN-17954	CERTIFICATE NO.:	RMTC - 0676/20
NAME OF CUSTOMER:	GEETA N. MALKAN		
ADDRESS OF CUSTOMER:	RADHA VISHWESHWAR APT. NARSING LANE 1 ST FLOOR; OPP N.L. SCHOOL. MALAD WEST.		
CALIBRATION DATE:	02.09.2020	CAL. VALIDITY:	01.09.2021

DETAILS OF EQUIPMENT USED FOR CALIBRATION

NOTE: Tick mark where as applicable.

Digital Lab Thermometer	<input type="checkbox"/>	Digital Tachometer	<input type="checkbox"/>	Digital Stop Watch	<input type="checkbox"/>
Auto Ranging R.P.M. Meter	<input type="checkbox"/>	Digital Strobe	<input checked="" type="checkbox"/>	Weight Set	<input type="checkbox"/>
Digital Temperature Indicator	<input type="checkbox"/>				

Sr. No.	Description	Certified By	Instrument Id. No.	Certificate No.	Calibration Date	Validity
01	Digi. Strobe	Autocal	MSM 01	C19120811/P/01	31.12.2019	30.12.2020

OBSERVATIONS:

Sr. No.	Speed Reading on Digital Strobe	Remarks
01	0990	OK
02	2510	OK
03	3530	OK

- NOTE:**
1. Calibration Traceable to national standards.
 2. Overall deviation is within specified accuracy.
 3. Result is related only to the item calibrated.
 4. Maximum tolerance permissible is $\pm 1^\circ\text{C}$ & $\pm 5^\circ\text{C}$ whichever is applicable and RPM $\pm 2\%$ FSD and $\pm 5\text{gm}$ to set weight.

REMARKS: ACCEPTED



CALIBRATED BY: VIJAY KADAM

APPROVED BY: MANAGER Q. A.



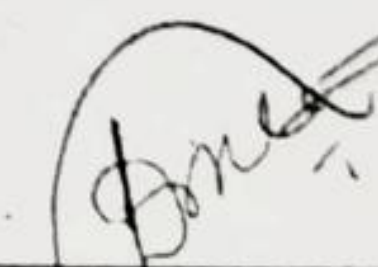


AUTOCAL SOLUTIONS PVT. LTD.
 Regd. Office & Laboratory: Unit No. 4, Ruby Industrial Estate PCS Ltd.,
 Navghar, Vasai Road (E), Dist. Thane - 401 210, Maharashtra, India.
 CIN No U72200MH2008PTC178116
 Email Id: sales@autocal.net Web Address: www.autocal.net
 Phone No: (0250) 2393460

CALIBRATION CERTIFICATE

MECHANICAL DISCIPLINE

FF01-E Rev. 06
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Certificate No.	C19120811/P/01	Issue Date	07/01/2020	
Date of Calibration	31/12/2019	Next Recommended Calibration Date	30/12/2020	
Service Request Form No.	C19120811			
Calibrated for	REMI ELEKTROTECHNIK LTD. (Instrumentation division) Bldg. B, Survey No. 65/1, Village Valiv, Vasai (East) Dist. Palghar Maharashtra 401208 India			
Date of Receipt of Instrument	27/12/2019			
Condition of Instrument on Receipt	Working	Calibrated at	Lab	
Environmental Conditions	Temperature: 23 ± 1.5°C	Relative Humidity	50 ± 10 % RH	
Details of Unit Under Calibration (UUC)				
Instrument	Digital Strobe Meter	Equipment:	---	
Make	Test Technics	Equipment ID.	---	
Model	TT - 5100	Department	QC	
Sr. No.	1551	Section	---	
Tag/ID No.	MSM - 01	Location	---	
Procedure No.	WII/ASPL/CAL/PR/07			
Range		Resolution/Least Count	Accuracy/Acceptance Criteria	
150 to 20000 RPM		1 RPM	Not Specified	
Details of Standard(s) Used for Calibration (Traceable to National / International Standards)				
Description	Make / Model	Serial No./ ID No.	Traceability (Certificate No.)	
Digital Tachometer	Monarch / PLT200	1856742 STD/P/PR/07	HT/307/001 Hi Tech. Chennai	
Valid upto: 19/04/2020				
Measurement Result				
Group: Acceleration, Speed & Acoustics				
Unit of Measurement : RPM				
No.	Reading On UUC	Reading On Standard	Error	(±) Expanded Uncertainty
1	150	150.03	-0.03	0.45
2	500	500.07	-0.07	0.95
3	1000	1000.8	-0.8	0.96
4	7002	7003.2	-1.2	2.70
5	20007	20009	-2	3.73
Remarks				
1. The reported expanded uncertainty of measurement is stated as a standard uncertainty of measurement multiplied by coverage factor "k = 2" such that the coverage probability corresponds to approximately 95% confidence level.				
2. The Measured Values Mentioned are the average of 5 readings				
3. Measured readings have been mentioned				
4. The Parameter / Test Point marked with an "*" are not accredited by NABL.				
Notes				
1. This certificate refers only to the particular item calibrated at site / laboratory				
2. The calibration results reported are valid at the time of and under the stated conditions of measurement.				
3. Any correction in this certificate invalidates this certificate				
4. This certificate shall not be reproduced except, in full without the written approval from the Laboratory.				
5. Calibration of UUC done by any accredited laboratory is meant for scientific and industrial purpose only however, if used for commercial trading additional recognition /approval shall be compiled as a required by department of legal metrology, regulatory bodies, etc.				
 For Calibrated By Somesh Sharma Calibration Engineer				 Authorised Signatory Jyotindra Mehta Senior Manager
***** End of Certificate *****				



HI TECH CALIBRATION SERVICES

No. 209, VGP Nagar, Mugappair West, Chennai - 600 037, INDIA.
Phone : 044 - 2656 9696 | 4385 1234, Mobile : 95970 95960
lab@hitechcalibration.com | www.hitechcalibration.com



Certificate No. : CC-2151

NABL ACCREDITED LABORATORY WITH THE COMPETENCE OF ISO / IEC 17025 : 2005

CALIBRATION CERTIFICATE

Certificate No.	HT/307/001	ULR No.	ULR - CC215119000012911F	
CUSTOMER DETAILS		DEVICE UNDER CALIBRATION DETAILS		
Name	M/s. Autocal Solutions Pvt. Ltd.,	Description	Digital Tachometer	
Address	Unit - 4,	Make	Monarch	Model
	Ruby Industrial Estate PCS Ltd, Navghar, Vasai (East), Thane, Maharashtra - 401 210	Mode	Non - Contact	
Job No.	307	Range	5 to 200000 RPM	
Job Date	17-Apr-2019	Least Count	0.001 / 0.01 / 0.1 / 1 RPM	
Issue Date	20-Apr-2019	Accuracy	± (0.01% of Rdg + 1 digit)	
Received Condition of DUC	Satisfactory	Serial No.	1856742	
ENVIRONMENTAL CONDITION		Identification	STD / P / PR / 07	
Temperature	25 °C ± 2 °C	Calibration On	20-Apr-2019	
Humidity	35 %RH to 65 % RH	Due On	19-Apr-2020	
Discipline & Group :	Mechanical Calibration & Acceleration, Speed and Acoustics			
Calibration Procedure :	HT / WI / M / 04 & SANAS TR 45-01			
STANDARD DETAILS				
Description	Digital Tachometer			
Certificate No.	FCRI/EQL/18-19/142 & SCM 1227-18			
Valid Till	21-Jun-2019 & 11-Dec-2019			

Refer Next Page for Result

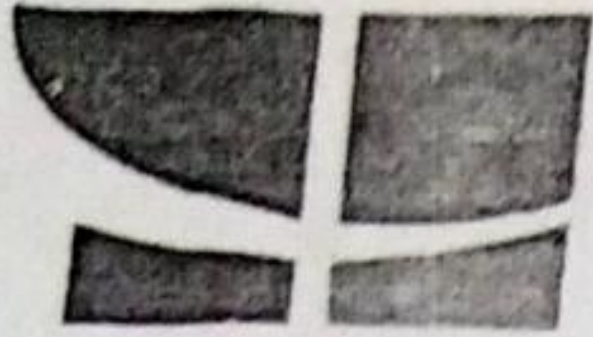
**CERTIFIED TRUE COPY
AUTOCAL SOLUTIONS PVT. LTD.**

[Signature]
Authorised Signatory

[Signature]
Checked By
R.KOWSELYA - CALIBRATION ENGINEER
HT / FT / 5.10 / 01

[Signature]
Approved By
R.R. JAI RAM - TECHNICAL MANAGER

- DUC : Device Under Calibration, • The calibration certificate shall not be reproduced in full without written approval of Hi Tech.
- The calibration certificate is valid only for the condition of the received DUC at the time under the stated condition of calibration.



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CALIBRATION RESULT

Mode : Non - Contact

DUC Reading in RPM	Standard Reading in RPM	Error in RPM	Expanded Uncertainty in \pm RPM
10.202	10.2	0.002	0.57
59.995	60.0	-0.005	0.45
100.09	100.1	-0.01	0.45
998.17	998.2	-0.03	0.95
10000	10000.4	-0.4	2.57
30001	30000.9	0.1	2.89
50000	50000.0	0.0	3.7
89994	89996.7	-2.7	4.77

Remarks:

- The calibration certificate is valid for scientific & industrial purpose only.
- The expanded uncertainty is expressed at 95.45 % confidence level with coverage factor k=2.

R. Key

Checked By

R. KOWSELYA - CALIBRATION ENGINEER

HT / PT / 5.10 / 01

End of Certificate

R.R. Hariharan

Approved By

R.R. HARIHARAN - TECHNICAL MANAGER

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