



APL  
19/6/23

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CIN : L31100MH1980PLC022314  
GSTIN : 33AAACR0421M1ZQ

## REMI SALES & ENGINEERING LIMITED

### CALIBRATION CERTIFICATE

**CUSTOMER NAME & ADDRESS:**  
SIDDHA REGIONAL RESEARCH,  
CHELLAPERUMAL KOIL STREET,  
KUYAVARPALAYAM,  
PUDUCHERRY-605013.

**CERTIFICATE No:** RSEL/CC/004/23-24  
**Date:** 06.06.2023

**DESCRIPTION OF THE EQUIPMENT:** REMI CENTRIFUGE

**MODEL:** R-8C PLUS **SL.NO:** ZHGN-27323 **MFG:** 07/21

**INSTRUMENT USED FOR CALIBRATION:** DIGITL TACHOMETER MAKE/MODEL: ELECTRONIC  
AUTOMATION / DT2001-B **SL.NO:** NA **TAG/ID.NO:** TAC - 08 **CERTIFICATE NO:** C22102140/P/01  
**CERTIFIED BY:** AUTOCAL, MUMBAI-401210. **INSTRUMENT VALIDITY:** 11.10.2023

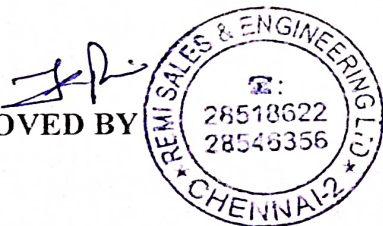
SL.NO.	DISPLAY RPM	TACHOMETER READING	ALLOWABLE ERROR	ERROR OBSERVED	REMARKS
1	1500	1508	±100	08	OK
2	2000	2010	±100	10	OK
3	3000	3008	±100	08	OK
4	4000	4009	±100	09	OK

**NEXT CALIBRATION DUE ON:** 05.06.2024

**NOTE:**

- RESULTS ARE RELATED ONLY TO THE EQUIPMENT CALIBRATED BASED UPON THE WORKING CONDITION OF THE EQUIPMENT AT THE TIME OF CALIBRATION.
- OVERALL DEVIATION IS DECIDED BASED UPON SPECIFIED ACCURACY DECLARED BY THE MANUFACTURER'S.

APPROVED BY



*P. Bussalathy*  
CALIBRATED BY

Corporate Office : Remi House, Plot No.11 Cama Indl. Estate, Walbhat Road, Goregaon (E), Mumbai - 400 063, India • Tel.: +91 - 22 - 4058 9888

Branches : Ahmedabad, Bengaluru, Chennai, Goa, Hyderabad, Indore, Jaipur, Kolkata, Kochi, Kanpur, Mumbai, Nagpur, New Delhi, Vijayawada

19/10/23



CC2382

**CALIBRATION CERTIFICATE**

FF/31-E

**MECHANICAL DISCIPLINE**

Page 1 of 2

ULR No.	CC238222000019081F		
Certificate No	C22102140/P/1	Issue Date	14/10/2022
Date of calibration	12/10/2022	Next Calibration Date	11/10/2023

Service Request Form No.	C22102140		
Calibrated For	Remi Elektrotechnik Ltd		
	Bldg.B, Survey No.65/1, Village Valiv, Vasal (East), Vasal Dist, Palghar Maharashtra India 401208		
Date of Receipt of Instrument	11/10/2022		
Condition of Instrument on Receipt	Working	Calibration at	Lab
Environmental Conditions	Temperature	23.3 °C	Relative Humidity
			56.4 %RH

Details of Unit Under Calibration (UUC)			
Instrument	Digital Tachometer	Equipment	NA
Make:	Electronic Automation	Equipment Id	NA
Model No.:	DT 2001-B	Department	NA
Sr. No:	-	Section	NA
Tag/Id. No.	TAC-08	Location:	NA
Procedure No	WI/ASPL/CAL/PR/07	Ref. Used:	Sanas TR 45-01

Range	Resolution / Least Count	Accuracy/ Acceptance Criteria
20 to 20000 RPM	0.1 RPM upto 5999.9 RPM & 1 RPM above 6000 RPM	Not Specified

Details of Standard(s) used for Calibration (Traceable to National & International Standards)				
Description	Make & Model	Serial No. & Identification No	Traceability (Certificate No.)	Valid Up To
DIGITAL TACHOMETER	Monarch / PLT 200	1858742 / STD/PI/PR/07	Hi Tech, Chennai HT/CC/220617-06/003	29/06/2023

**Measurement Results**

Observation Table | Discipline: Group :- Mechanical : Acceleration & Speed

Sr. No.	Calibration Point	Reading On Standard	Reading On UUC	Error	Expanded Uncertainty (±)
	RPM	RPM	RPM	RPM	RPM
1	20	20.001	20.0	-0.001	±0.8000
2	500	500.02	500.0	-0.02	±1.500
3	7000	7000.1	7001	0.9	±5.600
4	15000	15001	15002	1	±4.000
5	20000	20000	20002	2	±4.000

**Remark**

- 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.
- The Average Values Mentioned are the average of 5 readings.



18/10/22

Authorised Signatory	Jyotindra Mehta Calibration Engineer
Calibrated By	Krinjal Pahl Calibration Engineer



Authorised Signatory



**Autocal Solutions Private Limited**

Regd. Office & Laboratory : Unit No. 4, Ruby Industrial Estate, PCS Ltd.,  
 Navghar, Vasai Road (E), Dist. Palghar - 401210, Maharashtra, India.  
 CIN No. U72200MH2008PTC178116  
 Email Id: sales@autocal.net Web Address: www.autocal.net  
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**CALIBRATION CERTIFICATE**

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**MECHANICAL DISCIPLINE**

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<b>ULR No.</b>	<b>CC238222000019081F</b>		
<b>Certificate No</b>	<b>C22102140/P/1</b>	<b>Issue Date</b>	<b>14/10/2022</b>
<b>Date of calibration</b>	<b>12/10/2022</b>	<b>Next Calibration Date</b>	<b>11/10/2023</b>

**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 laboratories is meant for scientific and industrial purpose only. However, if used for commercial trading, additional recognition/ approval shall be complied as required by Dept. of Legal metrology, Regulatory bodies, etc.



*(Handwritten Signature)*  
18/10/22

<b>Authorised Signatory</b>	<b>Jyotindra Mehta</b>
	<b>Calibration Engineer</b>
<b>Calibrated By</b>	<b>Krnjal Patil</b>
	<b>Calibration Engineer</b>



Authorised Signatory

--- End of Certificate ---