

Equipment : CENTRIFUGE

**PLACE : ICTC-ANC , MCH , KOLKATA , 88
College street , Kolkata – 700073**

Equipment ID No. : MCH/ICTC-ANC/ I 04

MAKE : REMI

Model : R – 8C



TMSCC

TESTING MACHINE SERVICE AND CALIBRATION CENTRE
Precision is Our Destination.....

An NABL Accredited Calibration Laboratory
A Constituent Board of Quality Council of India
An ISO 9001 : 2015 Certified company

Calibration of Various Instruments & Testing Machines...



CC - 3125

Form No.: TMSCC/R/23

CALIBRATION CERTIFICATE

| | | | | | | | | | | | |
|--|--|--|--|--|--|---------------------|--|---------------|--|------------|--|
| CALIBRATION CERTIFICATE NO.: | | TMSCC-1720-22-23 | | Page 1 of 2 | | | | | | | |
| ISSUE DATE : | | 19-May-2022 | | | | | | | | | |
| ULR No.: | | CC312522000001936F | | | | | | | | | |
| 1.0 ISSUED TO : | | M/s.: ICTC-ANC, MCH Kolkata, Green Building , Ground Floor, Room No: 6&7, 88, College Street, Kolkata-700073 | | | | | | | | | |
| 1.1 Service Request Form No. : | | SRF/22-23/05/032 | | | | | | | | | |
| 1.2 Service Request Date : | | 16-May-2022 | | | | | | | | | |
| 1.3 Location : | | At Lab | | | | | | | | | |
| 1.4 Description identification of item to be calibrated : | | | | | | | | | | | |
| i Name : | | Timer & RPM of Centrifuge | | ii Make : | | Remi | | | | | |
| iii Model / Type No.: | | R-8C | | iv S/L No.: | | -- | | | | | |
| v I.D.No.: | | MCH/ICTC-ANC/I04 | | vi Job Code No.: | | 22-23/1720 | | | | | |
| vii Range : | | (0 to 5250) rpm & 99 min | | viii Resolution : | | 10 rpm & 1 min | | | | | |
| ix Accuracy : | | As per ASTM F-2046 & NIST: 1960-12 | | x End User : | | -- | | | | | |
| 1.5 Full / Partial Calibration : | | Full Calibration. | | | | | | | | | |
| 1.6 Applicable specification of item to be calibrated: Accuracy / permissible limit : | | Not Specified. | | | | | | | | | |
| 1.7 Date of receipt of item : | | 16-May-2022 | | 1.8 Date of calibration : | | 16-May-2022 | | | | | |
| 1.9 Calibration due on : | | 16-May-2023 | | 2.0 Frequency of calibration once in : | | 365 Days | | | | | |
| 2.1 Environmental condition during calibration : | | Temperature : 25°C ± 5°C | | | | | | | | | |
| | | Humidity : (50 ± 20)% RH | | | | | | | | | |
| 2.2 Basis of calibration : | | SOP/05/01 & SOP/9/16 | | | | | | | | | |
| 1. The above Instrument has been calibrated over its range and the results are tabulated from page 2 of report. | | | | | | | | | | | |
| 2. The Calibration Certificates relates only to the above DUC & reported results are valid at the time of and under the stated conditions of measurements. | | | | | | | | | | | |
| 3. Errors if any, in this certificate shall be brought to notice within 45 days from the date of this certificate. | | | | | | | | | | | |
| 4. NABL-133 guidelines are adopted for use of NABL symbol. | | | | | | | | | | | |
| 5. This certificate shall not be reproduced, except in full, without the written permission of TMSCC | | | | | | | | | | | |
| 6. Corrections/erasing. invalidate the Calibration Certificate- exception to the 'Final Page or Part of this Report- provided for incorporation of additional data(To be filled by customer authorized signatory and not under calibration laboratory control). | | | | | | | | | | | |
| 7. Laboratory Standards are traceable to National Standards | | | | | | | | | | | |
| 8. In Result Sheets, 'Pass' indicates measured readings are within*specification limit, 'Fail' Indicates measured readings are out of specification limit & '-' indicates no specification limit furnished. Acceptance criteria as per IS | | | | | | | | | | | |
| 2.3 Traceability : Standards used for calibration are traceable to National Standards through NABL accredited Laboratory. | | | | | | | | | | | |
| Name of the Instrument | | Sl. No./ Id No. | | Certificate No. | | Lab Certificate No. | | Calibrated On | | Due On | |
| Digital Tachometer | | (TMSCC/DT/01) (Sl. No.- 197-0010V) | | TMSCC-INTR-DT-08-21- 22 | | CC-3125 | | 25-11-2021 | | 24-11-2022 | |
| Digital Time Totaliser | | (TMSCC/TT/01) (Sl. No.- 19HT0559) | | TSC/20-21/7842-38 | | CC-2231 | | 24-11-2020 | | 24-11-2022 | |



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| Form No.: TMSCC/R/23 | | | | CC No.: TMSCC-1720-22-23 | |
|--|--|--|--------------|------------------------------|---------------------|
| | | | | Date: 19-May-2022 | |
| | | | | Page No.: 2 of 2 | |
| CALIBRATION RESULTS | | | | | |
| Sl. No. | Denomination set in rpm | Observed Reading at Ref. Std. in rpm (Average of five readings) | Error in rpm | Uncertainty in (\pm) % | Acceptance Criteria |
| 1 | 1450 | 1447.5 | -2.5 | 0.39 | Pass |
| 2 | 2400 | 2395.8 | -4.2 | 0.39 | Pass |
| 3 | 3110 | 3104.5 | -5.5 | 0.39 | Pass |
| 4 | 4010 | 4003.0 | -7.0 | 0.39 | Pass |
| 5 | 4870 | 4861.5 | -8.5 | 0.39 | Pass |
| Maximum Permissible Error : (\pm) 1% of rdg | | | | | |
| Sl. No. | Reading at Standard Totaliser in sec. (Avg. of five readings) | Reading at DUC in sec. (Avg. of five readings) | Error in sec | Uncertainty in (\pm) sec | Acceptance Criteria |
| 1 | 60.00 | 60 | 0 | 2.34 | Pass |
| 2 | 120.00 | 120 | 0 | 2.34 | Pass |
| 3 | 180.00 | 179 | -1 | 2.34 | Pass |
| 4 | 240.00 | 239 | -1 | 2.34 | Pass |
| 5 | 300.00 | 299 | -1 | 2.34 | Pass |
| Maximum Permissible Error : ± 5 sec (upto 1 min)/ ± 6 sec (above 1 min) | | | | | |
| Measurement Uncertainty at 95% Confidence Level where Coverage Factor k = 2 | | | | | |
| REMARKS : The DUC has been calibrated over its range. The readings observed are tabulated above. The reference standard is traceable to National standard. | | | | | |
| DUC: Device Under Calibration. | | | | | |
| Physical Status of the DUC : OK | | | | | |

Calibrated By :


P. K. Modak

Checked By :


C. Ghosh

Approved By :


S. Chowdhury



GOVERNMENT OF WEST BENGAL
DEPARTMENT OF HEALTH & FAMILY WELFARE
WBSAP&CS (BSD)

1st Floor, Swasthya Bhawan, Wing-B, GN-29, Sector-V, Salt Lake, Kolkata-700091
Ph.: 2333-0526, Fax: 2357-0122, Website : www.wbhealth.gov.in/wbsapcs

Memo No. HFW-28012(99)/1/2021-BSD SEC-Dept. of H&FW Date:

To

The Principals/ Director/MSVP/ Superintendant/BMOH (Medical Colleges/District Hospitals/ Subdivision Hospitals/State General Hospitals/ Rural Hospitals/Block Primary Health Centres/ Primary Health Centres)

Subject: Regarding supply of Refrigerator, VDRL shaker, Micropipette, Needle cutter, Centrifuge machine, Thermohyrometer, digital Thermometer for refrigerator to the SAICTCs

Ref:

- 1) Order vide memo no. HFW-28012(14)/3/2019-BSD SEC-Dept of H&FW/I/80090/2020/S-177 dated 4/2/2020 for supply of Refrigerator, VDRL Shaker, Micropipette, Needle cutter, Centrifuge machine for the ICTCs
- 2) Order vide memo no. HFW-28012(14)/2/2019-BSD SEC-Dept of H&FW-Part-(2)/S-197 dated 23/3/2020 for supply of Digital thermometer for refrigerator for ICTC Laboratory
- 3) Order vide memo no. HFW-28012(14)/2/2019-BSD SEC-Dept of H&FW-Part-(2)/S-198 dated 23/3/2020 for supply of Thermohyrometer for ICTC Laboratory

Madam/Sir,

As per the supply order as stated above, WBSAP&CS has supplied the various Lab equipments for all 314 stand alone ICTC laboratories replacing the older ones.

B. S. Das
31/01/2022
Joint Director- BSD

Memo No. HFW-28012(99)/1/2021-BSD SEC-Dept. of H&FW Date:

Copy forwarded for necessary information to

1. The Project Director-WBSAP&CS
2. The Medical Officer-In Charge, All Stand alone ICTCs, West Bengal
3. Office copy

B. S. Das
31/01/2022
Joint Director- BSD