



ADARSHA CALIBRATION SERVICES

NABL ACCREDITED CALIBRATION LABORATORY

#18,19, Survey No-118, Byraveshwara Nagar, Manganahalli Cross, Ullal Main Road,
Ullal (P), Bangalore - 560056. Ph: +91-80-2324 0578, Mob: +91-99450 86171/172/173

E: acscalib@gmail.com / enquiry@adarshacalibrations.com W: www.adarshacalibrations.com



CERTIFICATE OF CALIBRATION

Page 1 of 1

Certificate Number:	ACS/20-21/S01844-01	ULR Number :	ULR-CC-272220000004253F
Customer Name & Address:	M/s.A.J. Hospital & Research Centre, Kuntikana, NH-66, Mangaluru-575004, Karnataka-India.		
Date Of SRF:	22-09-2020	Calibrated At:	Site
Date of Calibration:	22-09-2020	Calibration WI No:	WI/TH/06
Next Cal Due:	21-09-2021	Date of Issue:	24-09-2020
Environmental Conditions:	Temperature: 24.9°C	Humidity:	55% R.H

DETAILS OF DEVICE UNDER CALIBRATION

Nomenclature :	Freezer	Serial. No:	ZFBD-05270
Make & Model :	Remi & RQFV-265	Code/ID No :	AJH/B/HRCLAB/QF/01
Range :	Upto -20°C	Resolution:	1°C
Location:	HRC Lab-(Quick freezer(-20deg)		

DETAILS OF STANDARD INSTRUMENT USED

I.Nomenclature:	Digital Thermometer with Sensor	Reference Standard:	DKD-R-5-7
Make / Model :	YCT & RTD-116	Serial.No/Id.No:	13021909/ACS-T/05
Range :	-80 to 400 °C	Cal Due Date:	20-05-2021
		Certificate No:	ACS/TH/20-21/I02425-01

CALIBRATION RESULTS:

Parameter: Temperature

Discipline : Thermal

SI No	DUC Set Point in °C	STD Reading in °C	DUC Reading in °C	Error Obtained in ± °C	Expanded Measurement Uncertainty ± in °C
1	-20	-20.38	-20	0.38	0.60

REMARKS & CONCLUSION:

- The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor $k = 2.00$.
- Next calibration due date mentioned as per customer requirement
- Calibration Work Order Received Through "M/s. Medical Engineering & Services".

Calibrated By

Deepak Kamaraj
Calibration Engineer



Authorized Signatory

Manjunath I
Technical Manager



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CERTIFICATE OF CALIBRATION

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Certificate Number:	ACS/20-21/S01844-02	ULR Number :	ULR-CC-27222000004254F		
Customer Name & Address:	M/s.A.J. Hospital & Research Centre, Kuntikana, NH-66, Mangaluru-575004. Karnataka-India.				
Date Of SRF:	22-09-2020	Calibrated At:	Site		
Date of Calibration:	22-09-2020	Calibration WI No:	WI/TH/06		
Next Cal Due:	21-09-2021	Date of Issue:	24-09-2020		
Environmental Conditions:	Temperature: 24.7°C	Humidity:	54% R.H		
DETAILS OF DEVICE UNDER CALIBRATION					
Nomenclature :	RTD With Indicator	Serial. No:	1978		
Make & Model :	Rotek & R1 18DFSS	Code/ID No :	AJH/B/HRCLAB/INCO/01		
Range :	Ambient to 110°C	Resolution:	0.1°C		
Location:	HRC Lab-(Incubator)				
DETAILS OF STANDARD INSTRUMENT USED		Reference Standard:	DKD-R-5-7		
1.Nomenclature:	Digital Thermometer with Sensor	Serial.No/Id.No:	13021909/ACS-T/05		
Make / Model :	YCT & RTD-116	Cal Due Date:	20-05-2021		
Range :	-80 to 400 °C	Certificate No:	ACS/TH/20-21/102425-01		
2.Nomenclature:	Dry Block Calibrator	Serial.No/Id.No:	1000-191		
Make / Model :	Divya Process Instruments & DPI-1000	Used As:	Source		
2.Nomenclature:	Dry Block Calibrator	Serial.No/Id.No:	1100-212		
Make / Model :	Divya Process Instruments & DPI-1100	Used As:	Source		
CALIBRATION RESULTS:					
Parameter: Temperature		Discipline : Thermal			
Sl No	Source Set Point in °C	Standard Reading in °C	DUC Reading in °C	Error Obtained in ± °C	Expanded Measurement Uncertainty ± in °C
1	40	40.31	40	-0.11	0.43
2	50	50.38	50	-0.28	0.64
3	80	80.65	80	-0.35	0.64
4	100	100.82	100	-0.42	0.64
5	110	110.76	110	-0.56	0.64
REMARKS & CONCLUSION:					
a. The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor k = 2.00.					
b. Next Calibration Due Date mentioned as per customer requirement.					
c. Calibration Work Order Received Through "M/s, Medical Engineering & Services".					
Calibrated By			Authorized Signatory		
Deepak Kamaraj Calibration Engineer			Manjunath I Technical Manager		

1)The Results stated in this certificates related only to the item submitted for calibration. 2)The Certificates shall not be produced except in full written approval of the issuing authority. M/s. Adarsha Calibration Services.
3) All references standards are traceable to national standards. 4) All results reported are valid at the time of and under stated conditions of measurements. 5) The recalibration intervals should be determined based on the user's requirements. 6) The certificate of calibration shall not be utilized for any legal purpose in the court of law for which no responsibility will be associated to M/s. Adarsha Calibration Services.
7) Any Error in the certificate should be brought to our lab within 45 days from the date of issue of certificate.



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CERTIFICATE OF CALIBRATION

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Certificate Number:	ACS/20-21/S01844-03	ULR Number :	ULR-CC-272220000004255F
Customer Name & Address:	M/s.A.J. Hospital & Research Centre, Kuntikana, NH-66, Mangaluru-575004. Karnataka-India.		
Date Of SRF:	22-09-2020	Calibrated At:	Site
Date of Calibration:	22-09-2020	Calibration WI No:	WI/TH/06
Next Cal Due:	21-09-2021	Date of Issue:	24-09-2020
Environmental Conditions:	Temperature: 24.9°C	Humidity:	53% R.H

DETAILS OF DEVICE UNDER CALIBRATION

Nomenclature :	RTD With Indicator	Serial. No:	1979
Make & Model :	Rotek & R1 18DFSS	Code/ID No :	AJH/B/HRCLAB/INCO/02
Range :	Ambient to 110°C	Resolution:	0.1°C
Location:	HRC Lab-(Incubator)		

DETAILS OF STANDARD INSTRUMENT USED

1.Nomenclature:	Digital Thermometer with Sensor	Reference Standard:	DKD-R-5-7
Make / Model :	YCT & RTD-116	Serial.No/Id.No:	13021909/ACS-T/05
Range :	-80 to 400 °C	Cal Due Date:	20-05-2021
2.Nomenclature:	Dry Block Calibrator	Certificate No:	ACS/TH/20-21/102425-01
Make / Model :	Divya Process Instruments & DPI-1000	Serial.No/Id.No:	1000-191
2.Nomenclature:	Dry Block Calibrator	Used As:	Source
Make / Model :	Divya Process Instruments & DPI-1100	Serial.No/Id.No:	1100-212
		Used As:	Source

CALIBRATION RESULTS:

Parameter: Temperature				Discipline : Thermal	
Sl No	Source Set Point in °C	Standard Reading in °C	DUC Reading in °C	Error Obtained in ± °C	Expanded Measurement Uncertainty ± in °C
1	30	30.29	30	-0.19	0.43
2	50	50.46	50	-0.26	0.64
3	80	80.69	80	-0.39	0.64
4	100	100.81	100	-0.51	0.64
5	110	111.02	110	-0.62	0.64

REMARKS & CONCLUSION:

- The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor $k = 2.00$.
- Next Calibration Due Date mentioned as per customer requirement.
- Calibration Work Order Received Through "M/s, Medical Engineering & Services".

Calibrated By

Authorized Signatory


Deepak Kamaraj
Calibration Engineer




Manjunath I
Technical Manager



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CERTIFICATE OF CALIBRATION

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Certificate Number: ACS/20-21/S01844-08 ULR Number: ULR-CC-272220000004260F

Customer Name & Address: M/s.A.J. Hospital & Research Centre,
Kuntikana, NH-66, Mangaluru-575004.
Karnataka-India.

Date Of SRF: 22-09-2020 Calibrated At: Site
Date of Calibration: 22-09-2020 Calibration WI No: WI/MC/10
Next Cal Due: 21-09-2021 Date of Issue: 24-09-2020
Environmental Conditions: Temperature: 24.4°C Humidity: 53% R.H

DETAILS OF DEVICE UNDER CALIBRATION

Nomenclature : RPM Meter Serial. No: ZFCN-09790
Make & Model : Remi & Neya-4 Code/ID No : AJH/B/HRCLAB/CENT/01
Range : 50 to 6000 RPM Resolution: 10 RPM
Location: HRC Lab-(Benchtop Centrifuge)

DETAILS OF STANDARD INSTRUMENT USED

Reference Standard: SANAS TR 45-02/01

Nomenclature: Digital Tachometer Serial. No: AE.75584
Make / Model : Lutron & DT-1236L Cal Due Date: 13-03-2021
Range : 10 to 99999 RPM Certificate No: ACS/MC/20-21/102284-01

CALIBRATION RESULTS:

Parameter: SPEED

Discipline : Mechanical

Sl.No.	Standard Reading (RPM)	DUC Reading (RPM)	Error Obtained ± (RPM)	Expanded Measurement Uncertainty ±(RPM)
PHOTO				
1	1004	1000	-4	3.77
2	2006	2000	-6	3.77
3	3009	3000	-9	3.77
4	4012	4000	-12	3.77
5	6015	6000	-15	3.77

REMARKS & CONCLUSION:

- The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor k=2.0.
- Next Calibration Due Date mentioned as per customer requirement.
- Calibration Work Order Received Through "M/s, Medical Engineering & Services".

Calibrated By

Deepak Kamaraj
Calibration Engineer



Authorized Signatory

Manjunath
Technical Manager



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Certificate Number:	ACS/20-21/S01844-09	ULR Number:	ULR-CC-27222000004261F	
Customer Name & Address:	M/s.A.J. Hospital & Research Centre, Kuntikana, NH-66, Mangaluru-575004. Karnataka-India.			
Date Of SRF:	22-09-2020	Calibrated At:	Site	
Date of Calibration:	22-09-2020	Calibration WI No:	WI/MC/10	
Next Cal Due:	21-09-2021	Date of Issue:	24-09-2020	
Environmental Conditions:	Temperature: 23.9°C	Humidity:	55% R.H	
DETAILS OF DEVICE UNDER CALIBRATION				
Nomenclature :	RPM Meter	Serial. No:	ZFCN-10595	
Make & Model :	Remi & Neya-4	Code/ID No :	AJH/B/HRCLAB/CENT/02	
Range :	50 to 6000 RPM	Resolution:	10 RPM	
Location:	HRC Lab-(Benchtop Centrifuge)			
DETAILS OF STANDARD INSTRUMENT USED			Reference Standard: SANAS TR 45-02/01	
Nomenclature:	Digital Tachometer	Serial. No:	AE.75584	
Make / Model :	Lutron & DT-1236L	Cal Due Date:	13-03-2021	
Range :	10 to 99999 RPM	Certificate No:	ACS/MC/20-21/I02284-01	
CALIBRATION RESULTS:				
Parameter: SPEED		Discipline : Mechanical		
Sl.No.	Standard Reading (RPM)	DUC Reading (RPM)	Error Obtained ± (RPM)	Expanded Measurement Uncertainty ±(RPM)
PHOTO				
1	1003	1000	-3	3.77
2	2007	2000	-7	3.77
3	3011	3000	-11	3.77
4	4015	4000	-15	3.77
5	6019	6000	-19	3.77
REMARKS & CONCLUSION:				
1.The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor k=2.0.				
2.Next Calibration Due Date mentioned as per customer requirement.				
3.Calibration Work Order Received Through "M/s, Medical Engineering & Services".				
Calibrated By		Authorized Signatory		
Deepak Kamaraj Calibration Engineer		Manjunath I Technical Manager		



1)The Results stated in this certificates related only to the item submitted for calibration. 2)The Certificates shall not be produced except in full written approval of the issuing authority. M/s .Adarsha Calibration Service
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 7) Any Error in the certificate should be brought to our lab within 45 days from the date of issue of certificate.



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CERTIFICATE OF CALIBRATION

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Certificate Number:	ACS/20-21/S01844-10	ULR Number:	ULR-CC-27222000004262F	
Customer Name & Address:	M/s.A.J. Hospital & Research Centre, Kuntikana, NH-66, Mangaluru-575004. Karnataka-India.			
Date Of SRF:	22-09-2020	Calibrated At:	Site	
Date of Calibration:	22-09-2020	Calibration WI No:	WI/MC/10	
Next Cal Due:	21-09-2021	Date of Issue:	24-09-2020	
Environmental Conditions:	Temperature: 24.2°C	Humidity:	54% R.H	
DETAILS OF DEVICE UNDER CALIBRATION				
Nomenclature :	RPM Meter	Serial. No:	ZFCN-10592	
Make & Model :	Remi & Neya-4	Code/ID No :	AJH/B/HRCLAB/CENT/03	
Range :	50 to 6000 RPM	Resolution:	10 RPM	
Location:	HRC Lab-(Benchtop Centrifuge)			
DETAILS OF STANDARD INSTRUMENT USED			Reference Standard: SANAS TR 45-02/01	
Nomenclature:	Digital Tachometer	Serial. No:	AE.75584	
Make / Model :	Lutron & DT-1236L	Cal Due Date:	13-03-2021	
Range :	10 to 99999 RPM	Certificate No:	ACS/MC/20-21/I02284-01	
CALIBRATION RESULTS:				
Parameter: SPEED		Discipline : Mechanical		
Sl.No.	Standard Reading (RPM)	DUC Reading (RPM)	Error Obtained ± (RPM)	Expanded Measurement Uncertainty ±(RPM)
PHOTO				
1	1004	1000	-4	3.77
2	2008	2000	-8	3.77
3	3010	3000	-10	3.77
4	4012	4000	-12	3.77
5	6015	6000	-15	3.77
REMARKS & CONCLUSION:				
1.The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor k=2.0.				
2.Next Calibration Due Date mentioned as per customer requirement.				
3.Calibration Work Order Received Through "M/s, Medical Engineering & Services".				
Calibrated By			Authorized Signatory	
Deepak Kamaraj Calibration Engineer			Manjunath I Technical Manager	





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CERTIFICATE OF CALIBRATION

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Certificate Number:	ACS/20-21/S01844-11	ULR Number:	ULR-CC-272220000004263F	
Customer Name & Address:	M/s.A.J. Hospital & Research Centre, Kuntikana, NH-66, Mangaluru-575004, Karnataka-India.			
Date Of SRF:	22-09-2020	Calibrated At:	Site	
Date of Calibration:	22-09-2020	Calibration WI No:	WI/MC/10	
Next Cal Due:	21-09-2021	Date of Issue:	24-09-2020	
Environmental Conditions:	Temperature: 24.5°C	Humidity:	55% R.H	
DETAILS OF DEVICE UNDER CALIBRATION				
Nomenclature :	RPM Meter	Serial. No:	ZFCN-10593	
Make & Model :	Remi & Neya-4	Code/ID No :	AJH/B/HRCLAB/CENT/04	
Range :	50 to 6000 RPM	Resolution:	10 RPM	
Location:	HRC Lab-(Benchtop Centrifuge)			
DETAILS OF STANDARD INSTRUMENT USED			Reference Standard: SANAS TR 45-02/01	
Nomenclature:	Digital Tachometer	Serial. No:	AE.75584	
Make / Model :	Lutron & DT-1236L	Cal Due Date:	13-03-2021	
Range :	10 to 99999 RPM	Certificate No:	ACS/MC/20-21/I02284-01	
CALIBRATION RESULTS:				
Parameter: SPEED	Discipline : Mechanical			
Sl.No.	Standard Reading (RPM)	DUC Reading (RPM)	Error Obtained ± (RPM)	Expanded Measurement Uncertainty ±(RPM)
PHOTO				
1	1002	1000	-2	3.77
2	2004	2000	-4	3.77
3	3007	3000	-7	3.77
4	4008	4000	-8	3.77
5	6011	6000	-11	3.77
REMARKS & CONCLUSION:				
1.The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor k=2.0.				
2.Next Calibration Due Date mentioned as per customer requirement.				
3.Calibration Work Order Received Through "M/s, Medical Engineering & Services".				
Calibrated By		Authorized Signatory		
Deepak Kamaraj Calibration Engineer		Manjunath I Technical Manager		



1) The Results stated in this certificate related only to the item submitted for calibration. 2) The certificates shall not be produced except in full written approval of the issuing authority. M/s. Adarsha Calibration Services. 3) All references standards are traceable to national standards. 4) All results reported are valid at the time of and under stated conditions of measurements. 5) The recalibration interval should be determined based on the user's requirements. 6) The certificate of calibration shall not be utilized for any legal purpose in the court of law for which no responsibility will be associated to M/s. Adarsha Calibration Services. 7) Any Error in the certificate should be brought to our lab within 45 days from the date of issue of certificate



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CERTIFICATE OF CALIBRATION

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Certificate Number:	ACS/20-21/S01844-12	ULR Number:	ULR-CC-27222000004264F	
Customer Name & Address:	M/s.A.J. Hospital & Research Centre, Kuntikana, NH-66, Mangaluru-575004. Karnataka-India.			
Date Of SRF:	22-09-2020	Calibrated At:	Site	
Date of Calibration:	22-09-2020	Calibration WI No:	WI/MC/10	
Next Cal Due:	21-09-2021	Date of Issue:	24-09-2020	
Environmental Conditions:	Temperature: 24.6°C	Humidity:	55% R.H	
DETAILS OF DEVICE UNDER CALIBRATION				
Nomenclature :	RPM Meter	Serial. No:	ZFCN-10596	
Make & Model :	Remi & Neyya-4	Code/ID No :	AJH/B/HRCLAB/CENT/05	
Range :	50 to 6000 RPM	Resolution:	10 RPM	
Location:	HRC Lab-(Benchtop Centrifuge)			
DETAILS OF STANDARD INSTRUMENT USED			Reference Standard: SANAS TR 45-02/01	
Nomenclature:	Digital Tachometer	Serial. No:	AE.75584	
Make / Model :	Lutron & DT-1236L	Cal Due Date:	13-03-2021	
Range :	10 to 99999 RPM	Certificate No:	ACS/MC/20-21/I02284-01	
CALIBRATION RESULTS:				
Parameter: SPEED		Discipline : Mechanical		
Sl.No.	Standard Reading (RPM)	DUC Reading (RPM)	Error Obtained ± (RPM)	Expanded Measurement Uncertainty ±(RPM)
PHOTO				
1	1005	1000	-5	3.77
2	2007	2000	-7	3.77
3	3009	3000	-9	3.77
4	4010	4000	-10	3.77
5	5012	6000	988	3.77
REMARKS & CONCLUSION:				
1.The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor k=2.0.				
2.Next Calibration Due Date mentioned as per customer requirement.				
3.Calibration Work Order Received Through "M/s, Medical Engineering & Services".				
Calibrated By			Authorized Signatory	
Deepak Kamaraj Calibration Engineer			Manjunath I Technical Manager	





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CERTIFICATE OF CALIBRATION

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Certificate Number:	ACS/20-21/S01844-13	ULR Number:	ULR-CC-272220000004965F
Customer Name & Address:	M/s.A.J. Hospital & Research Centre, Kuntikana, NH-66, Mangaluru-575004. Karnataka-India.		
Date Of SRF:	22-09-2020	Calibrated At:	Site
Date of Calibration:	22-09-2020	Calibration WI No:	WI/ET/04
Next Cal Due:	21-09-2021	Date of Issue:	24-09-2020
Environmental Conditions :	Temperature: 24.5°C	Humidity:	54% R.H

DETAILS OF DEVICE UNDER CALIBRATION

Nomenclature :	Digital Timer	Serial. No:	1911
Make & Model :	Rotek & RVDR01	Code/ID No :	AJH/B/HRCLAB/VDRL/01
Range :	0 to 15 Min	Resolution:	NA
Location:	(VDRL ROTATOR)		

DETAILS OF STANDARD INSTRUMENT USED

Nomenclature :	Digital Time Totalizer	Serial. No:	291
Make & Model :	Beltronics & 501	Cal Due Date:	26-09-2020
Range :	0 to 24 Hour	Certificate No:	CS-19/110-01

Calibration Results :

Parameter: Time

Sl.No.	Standard Reading				DUC Reading	Computed Standard Reading	Computed DUC Reading	Error Observed (±)	Expanded Measurement Uncertainty ±
	Hr	min	Sec	mSec					
1	00	01	00	51	01	60.051	60	-0.051	0.06
2	00	05	00	140	05	300.140	300	-0.140	0.06
3	00	10	00	208	10	600.208	600	-0.208	0.06
4	00	15	00	235	15	900.235	900	-0.235	0.06

REMARKS & CONCLUSION:

- The Measurement Uncertainty Values are estimated at a confidence level of 95.45 % with a coverage factor k =2.00.
- Next calibration due date mentioned as per customer requirement
- Calibration Work Order Received Through "M/s, Medical Engineering & Services".

Calibrated By

Deepak Kamaraj

Calibration Engineer



Authorised Signatory

Venkoba Rao GP

C.E.O

1)The Results stated in this certificates related only to the item submitted for calibration. 2)The Certificates shall not be produced except in full written approval of the issuing authority. M/s .Adarsha Calibration Services.
3) All references standards are traceable to national standards. 4) All results reported are valid at the time of and under stated conditions of measurements. 5) The recalibration intervals should be determined based on the user's requirements 6) The certificate of calibration shall not be utilized for any legal purpose in the court of law for which no responsibility will be associated to M/s. Adarsha Calibration Services.
7) Any Error in the certificate should be brought to our lab within 45 days from the date of issue of certificate.