

### (MEDICAL DEVICES CALIBRATION LABORATORY)

Address: C-22/25, Sector-57, Noida (U.P) Ph.: +91-120-4692900/01, +91-8595945672 E-mail: info@aovinternational.net, Website: www.aovinternational.net

AOV/7.8/QF/38

# Calibration Certificate

Certificate No.: AOV/CALN/22-12/0433

PAGE 1 OF 1

Customer Detail:		T	
Name and address of	customer :-	M/s. JHARGRAM HEALTH JHARGRAM, WEST BENGAL -	
Calibration Certific	ate Details:		
Customer Reference Nu	mber :		
Date of Receipt :-	21-Dec-2022	Date of issue :-	22-Dec-2022
Date of calibration :-	21-Dec-2022	Recommended Due Date :-	21-Dec-2023
Description of Dev	ice under calibration:		
Name of Instrument :-	Digital Centrifuge	Range :-	Max 5250 RPM
Make / Model :-	Remi / R-8C	Least Count :-	10 RPM
Serial Number :-	ZGBN-05761	Location/Department :-	ICTC Lab
Equipment ID :-	2130010940	Condition of DUC :-	Satisfactory
Accuracy :-		Location of calibration (At Lab/S	ite) :- Site
Environmental Cor	ditions Details:		
Temperature :-	25 ± 4°C	Relative Humidity :-	50 ± 20 %
Revelant Standard	& Procedure Details:		
Method & Reference	Calibration Procedure :-	By Using Comparision Method	d & AOV/CP/29
Reference National/ 1	nternational Standards :-		

Description of standards used for calibration:							
Name of Master Inst.	Make & Model	Serial Number	Valid Upto	Traceable To			
Digital Tachometer	Fluke / 931	4792051	8-Dec-2023	CC-3171			

Visual Inspection of Device Under Calibration :-				
Parameter	Remarks (Ok / Not Ok)			
1) Physical Damage	Ok			
2) Power Chord Check	Ok			
3) Accessories, Cables, Filter, Inlet & Hoses	Ok			
4) Battery Power				
5) Alarm Function	Ok			

C-III-	Discipline & Group: Mechanical-Acceleration and Speed								
Calibra	ition Results :-								
Sr. No.	Parameter	DUC Set Value(M)	STD Measured Value(S)	Error (M - S)	Expended Uncertainty (±RPM)				
1)	Rotation (RPM) (Non Contact Type)	500	498.2	1.8	6.18				
		1200	1195	5	6.34				
		2000	1990	10	6.94				
		3000	2982	18	7.00				
		3900	3873	27	7.06				

### Remarks:

- 1) Equiment used for calibration were calibrated & traceable to National & International Standards.
- The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2.00, providing
  a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NABL
  requirements.
- 3) The reported uncertainty applies only to the measured values and gives no indication of the long term stability of device.
- 4) Recommended Due Date of Calibration Certificate as per Customer Request.
- 5) All Readings are average of Five Readings.
- 6) DUC stands for Device Under Calibration.

CALIBRATED/CHECKED BY Bhagwan Singh (Calibration Engineer)



AUTHORISED SIGNATORY Gaurav Rajawat (Quality Manager)

- 1) This Calibration Certificate refers only to the particular item submitted for calibration.
- 2) This certificate shall not be reproduced except in full/part without prior permission of AOV International LLP.
- 3) The Calibration results reported in this certificate are valid at the time of an under stated condition of measurement.



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AOV/7.8/QF/38

# Calibration Certificate

Certificate No.: AOV/CALN/22-12/0434 PAGE 1 OF 1

Name and address of customer :-		M/s. JHARGRAM HEALTH DISTRICT HOSPITAL JHARGRAM, WEST BENGAL - 721507	
Calibration Certificat	e Details:		
Customer Reference Numb	er :		
Date of Receipt :-	21-Dec-2022	Date of issue :- 2	2-Dec-2022
Date of calibration :-	21-Dec-2022	Recommended Due Date :- 2	1-Dec-2023
Description of Device	under calibration:		
Name of Instrument :-	Rotary Shaker	Range :-	50-400 RPM
Make / Model :-	Remi / RS-12 plus	Least Count :-	1 RPM
Serial Number :-	ZCIS-26658	Location/Department :-	ICTC Lab
Equipment ID :-	2130010108	Condition of DUC :-	Satisfactory
Accuracy :-		Location of calibration (At Lab/Site) :	- Site
Environmental Condi	tions Details:		
Temperature :-	25 ± 4°C	Relative Humidity :-	50 ± 20 %
Revelant Standard &	Procedure Details:		
Method & Reference Cal	ibration Procedure :-	By Using Comparision Method & A	AOV/CP/29
Reference National/ Inte	ernational Standards :-	IS:12508	

Description of standards used for calibration:							
Name of Master Inst.	Make & Model	Serial Number	Valid Upto	Traceable To			
Digital Tachometer	Fluke / 931	4792051	8-Dec-2023	CC-3171			

Visual Inspection of Device Under Calibration :- Parameter	Remarks (Ok / Not Ok)
	Remarks (OK / NOL OK)
1) Physical Damage	Ok
2) Power Chord Check	Ok
3) Accessories, Cables, Filter, Inlet & Hoses	Ok
4) Battery Power	-
5) Alarm Function	<del></del>

Discipline & Group: Mechanical-Acceleration and Speed Calibration Results:-							
Sr. No.	Parameter	DUC Set Value(M)	STD Measured Value(S)	Error (M - S)	Expended Uncertainty (±RPM)		
	Rotation (RPM)	50	49.92	0.08	3.80		
1)		100	99.8	0.2	3.80		
		150	149.2	0.8	3.80		
	(Contact Type)	300	298.3	1.7	3.80		
		400	397.6	2.4	3.80		

### Remarks:

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- 3) The reported uncertainty applies only to the measured values and gives no indication of the long term stability of device.
- 4) Recommended Due Date of Calibration Certificate as per Customer Request.
- 5) All Readings are average of Five Readings.
- 6) DUC stands for Device Under Calibration.

\*\*End of Certificate\*\*

CALIBRATED/CHECKED BY
Bhagwan Singh (Calibration Engineer)



AUTHORISED SIGNATORY Gaurav Rajawat (Quality Manager)

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AOV/7.8/QF/38

# Calibration Certificate

Certificate No.: AOV/CALN/22-12/0435

PAGE 1 OF 1

Customer Detail:			
Name and address of	customer :	M/s. JHARGRAM HEALTH JHARGRAM, WEST BENGAL	
Calibration Certifica	te Details:		
Customer Reference Nun	nber :		
Date of Receipt :-	21-Dec-2022	Date of issue :-	22-Dec-2022
Date of calibration :-	21-Dec-2022	Recommended Due Date :-	21-Dec-2023
Description of Device	e under calibration:		
Name of Instrument :-	Centrifuge	Range :-	As per Manual
Make / Model :-	Remi / C-854/4	Least Count :-	As per Range
Serial Number :-	EPLC-3913	Location/Department :-	ICTC LAB
Equipment ID :-	2130010941	Condition of DUC :-	Satisfactory
Accuracy :-		Location of calibration (At Lab/S	Site) :- Site
Environmental Cond	litions Details:		
Temperature :-	25 ± 4°C	Relative Humidity :-	50 ± 20 %
Revelant Standard	& Procedure Details:		
Method & Reference C	alibration Procedure :-	- By Using Comparision Metho	d & AOV/CP/29
Reference National/ International Standards :-		IS:12508	

Description of standards used for calibration:							
Name of Master Inst.	Make & Model	Serial Number	Valid Upto	Traceable To			
Digital Tachometer	Fluke / 931	4792051	8-Dec-2023	CC-3171			

Visual Inspection of Device Under Calibration :-				
Parameter	Remarks (Ok / Not Ok)			
1) Physical Damage	Ok			
2) Power Chord Check	Ok			
3) Accessories, Cables, Filter, Inlet & Hoses	Ok			
4) Battery Power	1			
5) Alarm Function	Ok			

	Discipline & Group: Mechanical-Acceleration and Speed								
Calibration Results :-									
Sr. No.	Parameter	DUC Knob Set Value(M)	STD Measured Value(S)	Error (M - S)	Expended Uncertainty (±RPM)				
		1	824.1		3.80				
	Potation (PPM)	· 2	1624		4.78				
1)	Rotation (RPM) (Non Contact Type)	3	2215		4.78				
		4	2760		4.78				
		5	3486		4.78				

### Remarks:

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- 4) Recommended Due Date of Calibration Certificate as per Customer Request.
- 5) All Readings are average of Five Readings.
- DUC stands for Device Under Calibration.

\*\*End of Certificate\*\*

CALIBRATED/CHECKED BY
Bhagwan Singh (Calibration Engineer)



AUTHORISED SIGNATORY Gaurav Rajawat (Quality Manager)

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AOV/7.8/QF/38

# Calibration Certificate

Certificate No.: AOV/CALN/22-12/0436

PAGE 1 OF 1

Name and address of	customer	14/- 3114DCD414 11541 TH DEC		
Name and address of customer :-		M/s. JHARGRAM HEALTH DISTRICT HOSPITAL JHARGRAM, WEST BENGAL - 721507		
Calibration Certifica	ite Details:			
Customer Reference Nun	nber :			
Date of Receipt :-	21-Dec-2022	Date of issue :- 22-	-Dec-2022	
Date of calibration :-	21-Dec-2022	Recommended Due Date :- 21-	-Dec-2023	
Description of David				
	ce under calibration:			
Name of Instrument :-	Digital Centrifuge	Range :-	Max 5250 RPM	
Make / Model :-	Remi / R-8C	Least Count :-	10 RPM	
Serial Number :-	ZDKN-30526	Location/Department :-	ICTC Lab	
Equipment ID :-	2130010106	Condition of DUC :-	Satisfactory	
Accuracy :-		Location of calibration (At Lab/Site) :-	Site	
F				
Environmental Cond				
Temperature :-	25 ± 4°C	Relative Humidity :-	50 ± 20 %	
Revelant Standard	& Procedure Details:			
Method & Reference C		By Using Comparision Method & AC	OV/CP/29	
Reference National/ International Standards :-				
		IS:12508		

Description of standards used for calibration:							
Name of Master Inst.	Make & Model	Serial Number	Valid Upto	Traceable To			
Digital Tachometer	Fluke / 931	4792051	8-Dec-2023	CC-3171			

Visual Inspection of Device Under Calibration :-				
Parameter	Remarks (Ok / Not Ok)			
1) Physical Damage	Ok			
2) Power Chord Check	Ok			
3) Accessories, Cables, Filter, Inlet & Hoses	Ok			
4) Battery Power				
5) Alarm Function	Ok			

	Discipline & Group: Mechanical-Acceleration and Speed									
Calibration Results :-										
Sr. No.	Parameter	DUC Set Value(M)	STD Measured Value(S)	Error (M - S)	Expended Uncertainty (±RPM)					
1)	Rotation (RPM) (Non Contact Type)	500	503.5	-3.5	6.18					
		1200	1198	2	6.34					
		2000	1993	7	6.94					
		3000	2987	13	7.00					
		3900	3884	16	7.06					

### Remarks:

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Bhagwan Singh (Calibration Engineer)



AUTHORISED SIGNATORY
Gaurav Rajawat (Quality Manager)

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