



### OBSERVATION SHEET

Purpose	Calibration	Job No	BCL/NaN/2/44	Date of Calibration	02/06/2025 to 02/06/2025
---------	-------------	--------	--------------	---------------------	--------------------------

SRF Number	SRF/250429/120	SRF Date	29/04/2025	Due Date of Calibration	01/12/2025
------------	----------------	----------	------------	-------------------------	------------

**DETAILS OF UNIT UNDER CALIBRATION (UUC)**

<b>Name of Instrument</b>	: RPM Indicator	<b>Make</b>	: Thermofisher Scientific
<b>Identification No</b>	: 4D/D1205/C/001	<b>Model</b>	: N/A
<b>Serial No</b>	: N/A	<b>Range</b>	: 0 to 4700 rpm
<b>Accuracy</b>	: ± 20 rpm	<b>Resolution/Least Count</b>	: 1 rpm
<b>Location</b>	: N/A	<b>Calibration Location</b>	: Onsite
<b>Condition of Instrument</b>	: Satisfactory	<b>Calibration Procedure</b>	: CI(MS)-09

**Environmental Conditions:** Start Temp: 23.6 °C End Temp: 23.7 °C Start Humidity: 45 %RH End Humidity: 46 %RH

**DETAILS OF MASTER EQP USED FOR CALIBRATION**

Sl.No.	Name of Standard	Id/Sr. No.	Range	Accuracy	Least Count	Certificate No	Calibration Date	Due Date
1	Digital Tachometer	BELZ/MV/TM-05 / 0504	0 to 19999.9 rpm , 0 to 99999.9 rpm	± 0.01%+1digit rpm	0.1 rpm	40129120	28/08/2024	28/08/2025

**Discipline :** Mechanical (Group : Acceleration & Speed)

**Calibration Results**

Sr.No.	Nominal Value	DUC Readings					Standard Readings					DUC Least Count	DUC Avg	Standard Avg	Error	
		d1	d2	d3	d4	d5	m1	m2	m3	m4	m5					
Non-Contact Type																
	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm
1	100	100	100	100	100	100	100.2	100.1	100.2	100.1	100.2	1	100	100.2	-0.2	
2	500	500	500	500	500	500	500.7	500.6	500.7	500.6	500.7	1	500	500.7	-0.7	
3	2000	2000	2000	2000	2000	2000	1998.3	1998.2	1998.3	1998.2	1998.3	1	2000	1998.3	1.7	
4	4500	4500	4500	4500	4500	4500	4500.9	4500.8	4500.9	4500.8	4500.9	1	4500	4500.9	-0.9	

**Error Limit**

Sr.No.	Nominal Value	UUC Readings					Standard Readings					DUC Least Count	**Digit	UUC Avg	Standard Avg	Error	Error Limit (±)	Uncertainty (±)
		d1	d2	d3	d4	d5	m1	m2	m3	m4	m5							
Non-Contact Type																		
	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	rpm	%
1	100	100	100	100	100	100	100.2	100.1	100.2	100.1	100.2	1	1	100	100.2	-0.2	20	3.93
2	500	500	500	500	500	500	500.7	500.6	500.7	500.6	500.7	1	1	500	500.7	-0.7	20	0.35
3	2000	200	200	200	200	200	1998	1998	1998	1998	1998	1	1	200	1998.3	1.7	20	0.09

**Belz Calibration Lab**

Calibrated By  
Electronically signed by  
Sonu  
02/06/2025 03:00 PM

Approved By



### OBSERVATION SHEET

<b>Purpose</b>	Calibration	<b>Job No</b>	BCL/NaN/2/44	<b>Date of Calibration</b>	02/06/2025 to 02/06/2025
----------------	-------------	---------------	--------------	----------------------------	--------------------------

Sr.No.	Nominal Value	UUC Readings					Standard Readings					DU C L e a s t C o u n t	**Digit	UUC A v g	Stand ard Avg	Err or	Er ro r L i m i t (±)	Uncertai nty (±)
		d1	d2	d3	d4	d5	m1	m2	m3	m4	m5							
		0	0	0	0	0	.3	.2	.3	.2	.3			00				
4	4500	4500	4500	4500	4500	4500	4500.9	4500.8	4500.9	4500.8	4500.9	1	1	4500	4500.9	-0.9	20	0.09

**Remarks:**  
Status Report only.

DRAFT

**Belz Calibration Lab**

<b>Calibrated By</b> Electronically signed by <b>Sonu</b> 02/06/2025 03:00 PM	<b>Approved By</b>  -
----------------------------------------------------------------------------------------	-----------------------------