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TransCal
Technologies LLP

Measurement to Perfection...



CC-2231

100, West Park Road (Between Sampige and Margosa Road)
 10th Cross, Malleshwaram, Bengaluru - 560 003

CALIBRATION CERTIFICATE

Customer Name & Add. : M/s.

NATIONAL CENTRE FOR QUALITY CALIBRATION
 4, ABHISHREE CORPORATE PARK, NR. SWAGAT BUNGLOWS, BRTS, ISKON-AMBLI
 ROAD, AMBLI, AHMEDABAD-380058, GUJARAT, INDIA.

SRF No. : TSC/23-24/16682

Dated : 09 Jan 2024

Cert. Issued Date :

11 Jan 2024

ULR.NO CC223124000003691F

Calibration Certificate Number	Calibrated Date	Calibration Due Date	Page Number
TSC/23-24/16682-2	10 Jan 2024	—	1 of 3

Details of device under calibration		Transcal ID : TSC467354	
Nomenclature : Digital Vibration Meter	Make : HTC	No. of Pages : 3	Cal Procedure No. : TSC/CAL/613
Model/Range : VB-8205	SI No. : NCQC/M-195	DUC Received : 09 Jan 2024	DUC Condition on Receipt : Satisfactory
ID No. : N793990	Calibrated By : Janardhan S, Calibration Engineer	Cal At : Mechanical Lab	

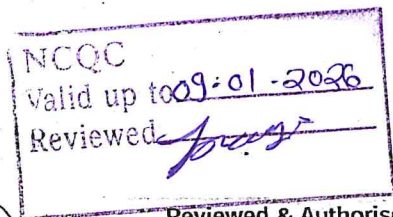
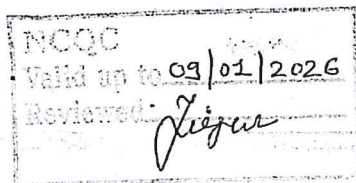
Environmental Conditions : Temperature in °C : 23.2 Humidity in RH % : 52.1

Standards used :

SI No.	Nomenclature	Make	Model	SI No/ID.No.	Certificate No.	Validity
1	Digital Vibration Meter	HTC	VB-8205	N978098	TSC/22-23/INH/MECH-323-1	01 Mar 2024

Note :

- This Calibration Certificate relates only to the above DUC & Reported results are valid at the time of and under the stated conditions of measurements.
- Partial Publication/ reproduction of this Certificate in any form is not permitted without the written consent of TransCal.
- Errors if any, in this Certificate shall be brought to notice within 45 days from the date of this Certificate
- Measurement Uncertainty reported is at approximately 95 % confidence level with k=2; Units of Measurement results & Measurement Uncertainty are same as that of range selected - Unless otherwise indicated.
- Calibration of the DUC is traceable to National/International Standards.
- Corrections/erasing invalidate the Calibration Certificate.
- Unless otherwise specified the Measurement Data reported is 'As Found'-Without any adjustment.
- The Decision Rule:
 Simple Conformity Decision: Decision without considering Measurement Uncertainty, "PASS" indicates measured value is within or on threshold of Tolerance limit/Accuracy. "FAIL" indicates measured value is beyond threshold of Tolerance limit/Accuracy. "--" indicates no tolerance limit/Accuracy furnished.



Reviewed & Authorised By



[Signature]
 Marjunath D J
 (Lab Incharge)

NCQC System Certificate No. 281

NCQC System Certificate No. 281



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CAL CERT. NO : TSC/23-24/16682-2

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Range : 0 to 400 m/s²
LC : 0.1 m/s²
Acc : ± 0.5%+2digit (Claimed by Customer)

ACCELERATION MODE : Peak

SI No.	Frequency	Standard Reading in m/s ²	DUC Reading in m/s ²	Measurement Uncertainty ± in %	Remarks
1	10 Hz	1.07	1.0	6.36	Pass
2		5.14	5.1	3.54	Pass
3		10.20	10.0	3.41	Pass
4	50 Hz	1.03	1.1	6.53	Pass
5		5.08	5.0	3.55	Pass
6		10.14	10.0	3.41	Pass
7		20.21	20.0	3.37	Pass
8	100 Hz	1.06	1.1	6.40	Pass
9		5.12	5.0	3.54	Pass
10		10.17	10.0	3.41	Pass
11		20.18	19.9	3.37	Pass
12		50.23	49.9	3.37	Pass
13		100.26	99.8	3.37	Pass
14	300 Hz	1.12	1.0	6.15	Pass
15		5.20	5.0	3.54	Pass
16		10.24	10.0	3.41	Pass
17		20.30	20.1	3.37	Pass



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Manjunath D J
(Lab Incharge)



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CAL CERT. NO : TSC/23-24/16682-2

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Range : 0.5 -400mm/s
LC : 0.01 mm/s
Acc : $\pm 0.5\%+2$ digit (Claimed by Customer)

VELOCITY MODE : RMS

Sl No.	Frequency	Standard Reading in mm/s	DUC Reading in mm/s	Measurement Uncertainty \pm in %	Remarks
18	10 Hz	5.69	5.65	3.06	Pass
19		11.29	11.25	2.93	Pass
20		56.30	56.27	2.89	Pass
21	50 Hz	2.29	2.26	3.83	Pass
22		11.29	11.25	2.93	Pass
23		22.54	22.50	2.90	Pass
24		45.05	44.99	2.89	Pass
25	100 Hz	1.17	1.15	5.72	Pass
26		5.67	5.63	3.06	Pass
27		11.29	11.25	2.93	Pass
28		22.54	22.50	2.90	Pass
29		56.30	56.28	2.89	Pass
30		1.92	1.90	4.17	Pass
31	300 Hz	3.79	3.76	3.26	Pass
32		7.54	7.50	2.99	Pass


Conclusion Remarks:

- 1) Standard Meter Reading corrected as per the standard certificate
- 2) Method adopted for calibration : Back to back comparison as per ISO 16063 Part 21

*** END OF CERTIFICATE ***



Reviewed & Authorised By,


Manjunath D J
(Lab Incharge)