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HI-TECH CALIBRATION

Head Off.: ROYAL INDUSTRIAL HUB, Gala No. 60, N.H.No. 48,
Nr. Daman Ganga River, Valvada (VAPI), Tal. Umbergaon Dist. Valsad - 396105
Email: hitechvapi@yahoo.com / hitechvapi307@gmail.com
Web: www.hitechcalibration.in Cell: 9426832487 / 9427634137

CALIBRATION CERTIFICATE

Service Request No. :- 2021/12/389		Certificate No. :- HTC/2021/12/23215		
ULR No. :- CC247821000023215F		Certificate Date of Issue :- 13-Jan-2022		
Date of Calibration 31-Dec-2021	Recom.Due Date :- 30-Dec-2023	Discipline Mechanical - Acceleration & Speed	NABL Certificate Due on 05-Dec-2022	Page 1 of 2
1. Customer :- National Center for Quality Calibration 4. Abhishree Corporate Park, Nr. Swagat Bunglow BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad - 380 058, Gujarat.				
Received Date :- 31-12-2021	Location of Calibration :- At Lab	Condition of Item :- Good	Work Instruction No. :- HTC/WI/70	Environment Condition Temp. °C RH % 25.8 57.7
2. Description of Item		Reference Standard :- NABL 129 & ISO 16063 21		
Name :- Vibration Meter	ID No :- NCQC/M-195	Sr No :- N793990	Make :- HTC	Model / Type :- VB-8205 / Digital
Range :- 0 to 400 m/s ² & 0 to 400mm/s	L.C. :- 0.1 m/s ² & 0.01 mm/s	Accuracy :- +/- 0.5% +2dig	Working Range :- Full	Location :- ---
3. Detail of Master equipment used for calibration				
Name	Make/I.D No.	Certificate No.	Certified By	Cal. Validity
Vibration Meter	HTC-EQP-126	FCRI/EQL/20-21/532	FCRI & CC-2395	12-Aug-2023
All Calibration done in SI units and are traceable to National / International standards as per required ISO/IEC/17025				
4. Tracibility : 1 Vibration Meter Calibrate through NABL Lab FCRI & CC-2395 Certificate No.FCRI/EQL/21-22/532 Calibrated on 12-Aug-2021 .Traceable to National Standard.				
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>NCQC Valid up to <u>30-12-2023</u> Reviewed <u>[Signature]</u></p> </div>				
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>NCQC System Certificate No. <u>281</u></p> </div>				
<p>The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $K=2$, which corresponds to a coverage probability of approximately 95% for normal distribution.</p> <p>Note :</p> <ol style="list-style-type: none"> 1) UUC stands for Unit Under Calibration. 2) This certificate refers only to the particular item submitted for calibration 3) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Hi - Tech Calibration, Vapi". 4) The calibration results relate only to the item calibrated reported in the certificate are valid at the time of and under the stated conditions of measurement. 				
Vivek S Patel Calibration Engineer <u>[Signature]</u> Calibrated By		 Dharmesh R. Purohit Quality Manager <u>[Signature]</u> Authorised Signatory		

HF-31/4



For Quality Command

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ILAC-MRA



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Certificate No. :-	HTC/2021/12/23215	Date of Calibration :-	31-Dec-2021	Page 2 of 2
I.D. No. :-	NCQC/M-195	Recom. Due Date :-	30-Dec-2023	
ULR No. :-	CC247821000023215F	Discipline :-	Mechanical - Acceleration & Speed	

5. Calibration Method

Actual vibration reading indicated by calibration items is compared with specified vibration for a given vibration measured using standard master vibration meter.

6. Calibration Results :

Sr. No.	Cal. Point in m/s ²	UUC Reading in m/s ²	Standard * Reading in m/s ²	Error in m/s ²	+/- Expanded Uncertainty in m/s ²
1) INSTRUMENTAL ERROR FOR ACCELERATION					
1	0.5	0.5	0.50	0.00	4.5000
2	5.0	5.2	5.29	-0.09	4.5000
3	10.0	10.3	10.53	-0.23	4.5000
4	20.0	20.4	20.64	-0.24	4.5000
5	30.0	29.5	30.16	-0.66	4.5000
2) INSTRUMENTAL ERROR FOR VELOCITY mm/s(pk)					
1	0.5	0.51	0.62	-0.11	4.5000
2	5.0	4.94	5.23	-0.29	4.5000
3	10.0	10.25	10.56	-0.31	4.5000
4	20.0	20.30	20.64	-0.34	4.5000
5	30.0	29.32	29.94	-0.62	4.5000

* Mention Standard reading is average reading of five result

Vivek S Patel

Calibration Engineer

Calibrated By

Priya P. Patel

Verification Engineer

Checked By



Dhamesh R. Purohit

Quality Manager

Authorised Signatory

HF-31B2/00