

CPRI

TEST REPORT



Central Power Research Institute

(A Govt. of India Society)

Prof. Sir. C.V. Raman Road,
Sadashivanagar Post Office, P.B.No. 8066,
Bangalore - 560 080, INDIA.

CENTRAL POWER RESEARCH INSTITUTE



TEST REPORT

Test Report Number : CPRI BLEVR CMISC25T0033 Date: 20 May 2025 **CPRI**

Name and Address of the Customer : M/s. SPINK CONTROLS,
303, Siddhartha Towers CHSL, G.P. Pai Road, Kopri,
Thane, 400 603, Maharashtra, India.

Name and Address of the Manufacturer : M/s. SPINK CONTROLS,
303, Siddhartha Towers CHSL, G.P. Pai Road, Kopri,
Thane, 400 603, Maharashtra, India.

Particulars of sample tested : Digital Variable Area Flowmeter
Type : Model No.: R-300/D/001
Description of test sample : Digital Variable Area Flowmeter
Serial Number : 25/24670
Number of samples tested : One
Date(s) of Test(s) : 19 May 2025
CPRI Sample code Number(s). : EVRCMISC25S0048

Particulars of tests conducted : Seismic test

Test in accordance with Standard/Specification : No

Sampling Plan : Not applicable

Customer's Requirement : Yes

Deviations if any : Nil

Name of the witnessing persons
Customers representative : Mr. Vinayak Rangdal, Proprietor

Other than customer's representatives :


Test subcontracted with address of the laboratory : None

Documents constituting this report (in words)

Number of Sheets : Seven
Number of Oscillogram(s) : Nil
Number of Graph(s) : Nil
Number of Photograph(s) : Five
Number of Test Circuit Diagram(s) : Nil
Number of Drawing(s) : One


(Yamini Gupta)
Test Engineer




(R. Panneer Selvam)
Head of Division
Reviewed and Authorized by

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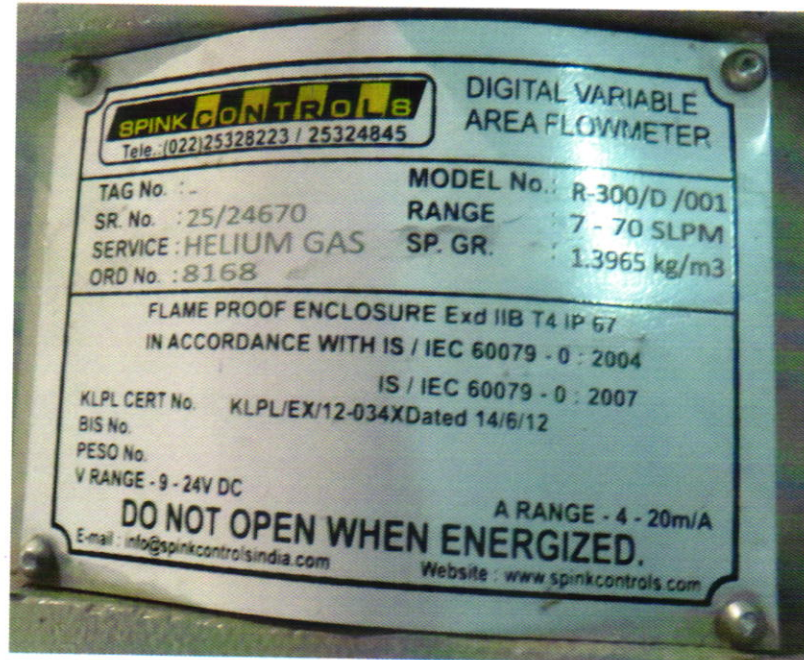
Date: 20 May 2025



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DESCRIPTION OF SAMPLE TESTED

(As assigned by the manufacturer)



Name plate details of test sample

Yamini Gupta
(Yamini Gupta)
Test Engineer

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TEST REPORT

Test Report Number: CPRIBLREVRMISC25T0033

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SUMMARY OF TESTS CONDUCTED

1. Tests conducted : Seismic test
2. Rating for which tested : Not applicable
3. Schedule of tests

Tests Conducted	Sheet
Seismic test	6

4. Oscillogram Numbers : Nil
5. Graph Numbers : Nil
6. Photograph Numbers : Photograph Number 1 to Photograph Number 5

Drawing Numbers :

The manufacturer has guaranteed that the sample submitted for the test(s) has been manufactured in accordance with the following drawings

Sl. No.	Drawing Number	Sheet Number	Revision Number
1	SC/R-300/SEI	SHEET 1 OF 1	REV NO R02

It is verified that these drawings adequately represent the sample tested. Verification of this drawing by CPRI is limited to dimensional check only wherever possible.


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Test Engineer

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TEST PARAMETERS

Seismic test

- a) Type of vibration : Sinusoidal
b) Axis : X, Y & Z Axes
c) Frequency & Acceleration :

Frequency, Hz	Acceleration, g (peak) X, Y & Z – axes
1.00	0.18
1.26	0.30
1.59	0.45
2.00	0.70
2.52	1.00
3.17	1.40
4.00	1.80
5.04	2.30
6.35	2.90
8.00, 10.08, 12.70, 16.00, 20.16, 25.40, 32.00, 40.32, 50.80, 64.00, 80.63 & 100.00	3.5

- d) Duration of test in each axis : 30 seconds at each frequency
e) Condition of sample during test : Non- energized


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EQUIPMENT USED

Nomenclature	Make & Model	Serial number	Calibration due date
Servo Hydraulic Shaker System	Make: M/s. DTE., USA. Model : LHB-22-4 Model : LHB-22-X-O-E-A-N-T	361 & 540	11.04.2026
Vibration controller	Make: M/s. VR Controller, Model: VR9500	95065007 & 95215993	
Accelerometer	Make: M/s. PCB Model: 353B34	LW204107	16.01.2026

MOUNTING DETAILS

Test sample mounted on fixture is shown in Photograph Number 1. Test arrangement photographs are shown in Photograph Number 2 to Photograph Number 4.


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TEST RESULTS

Test sample was subjected to visual inspection prior to test. No visual damage was observed.

Test sample was subjected to Seismic test as per the test parameters specified in sheet no. 4. Test results and observations are as follows:

Axis	Observations
X	No visual damage observed.
Y	1) From frequency 1 Hz to 64 Hz, no visual damage observed. 2) During frequency 80.63 Hz, threaded stopper detached from its location. Refer Photograph Number 5. It was tightened by customer and testing was continued. 3) No further visual damage observed.
Z	No further visual damage observed.


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NOTE

- The Test results relate only to the sample(s) tested.
- Publication or reproduction of this Test Report in any form other than by complete set of the whole Test Report and in the language written is not permitted without the written consent of CPRI.
- Any Corrections/erasure invalidates the Test Report
- Any anomaly/discrepancy in the Test Report should be brought to the notice of CPRI within 45 days from the date of issue.


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Test Engineer

-----End of Test Report-----

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TEST REPORT

Test Report Number: CPRIBLREVRMISC25T0033

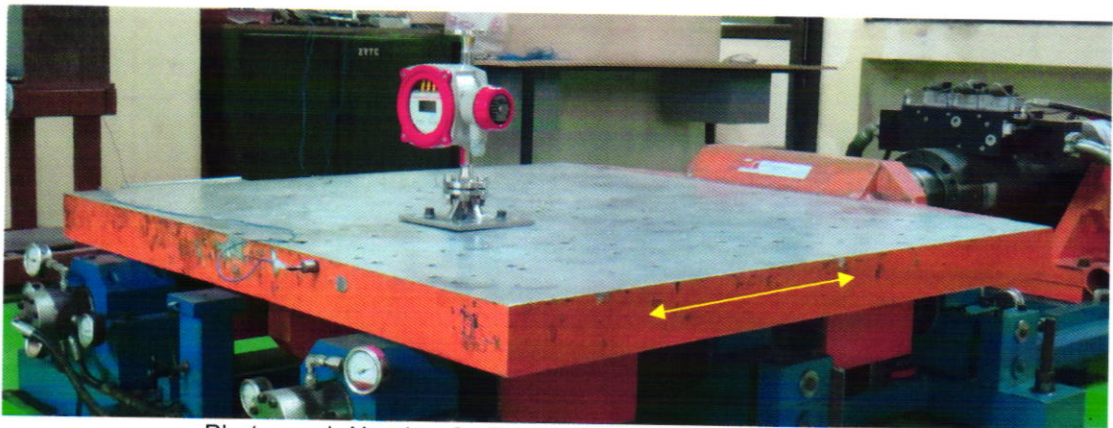
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Photograph Number 1 : Test Sample mounted on fixture



Photograph Number 2 : Test Sample arrangement in X axis

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(Yamini Gupta)
Test Engineer

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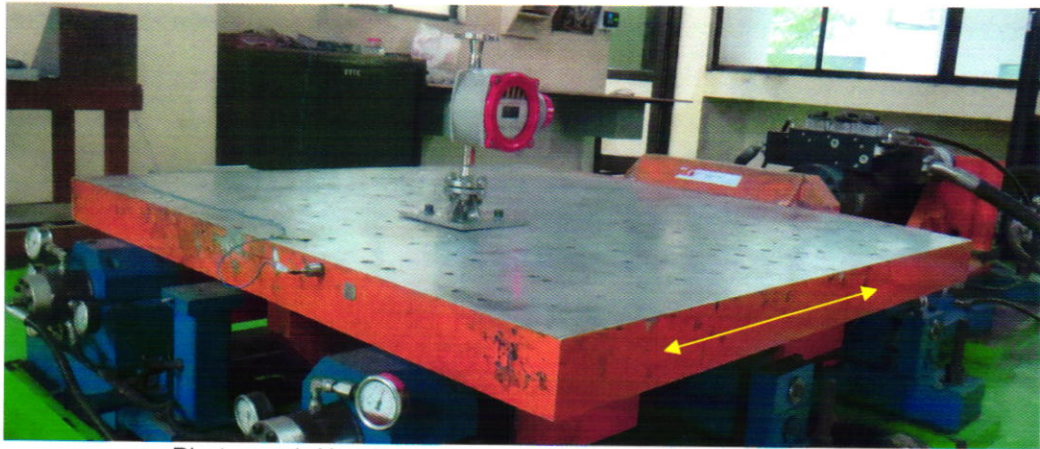
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Test Report Number: CPRI BLEVR CMISC25T0033

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Photograph Number 3 : Test Sample arrangement in Y axis



Photograph Number 4 : Test Sample arrangement in Z axis

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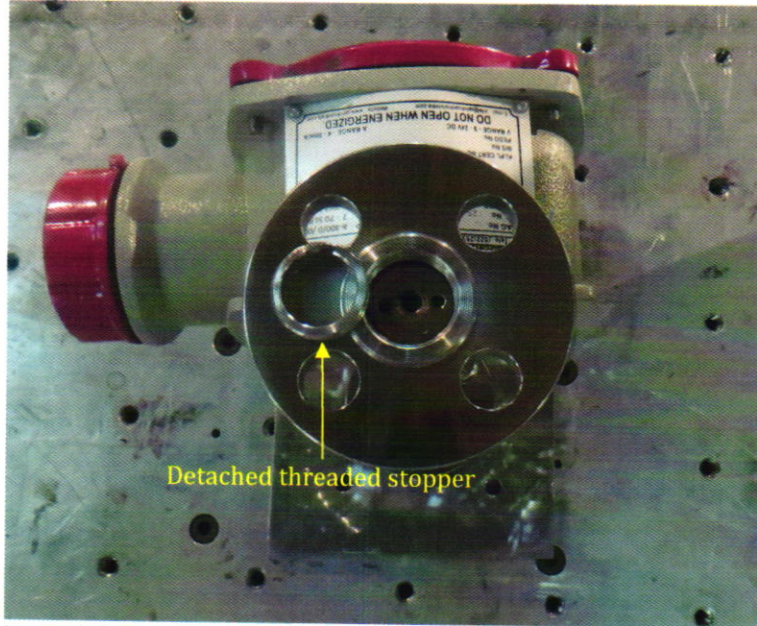
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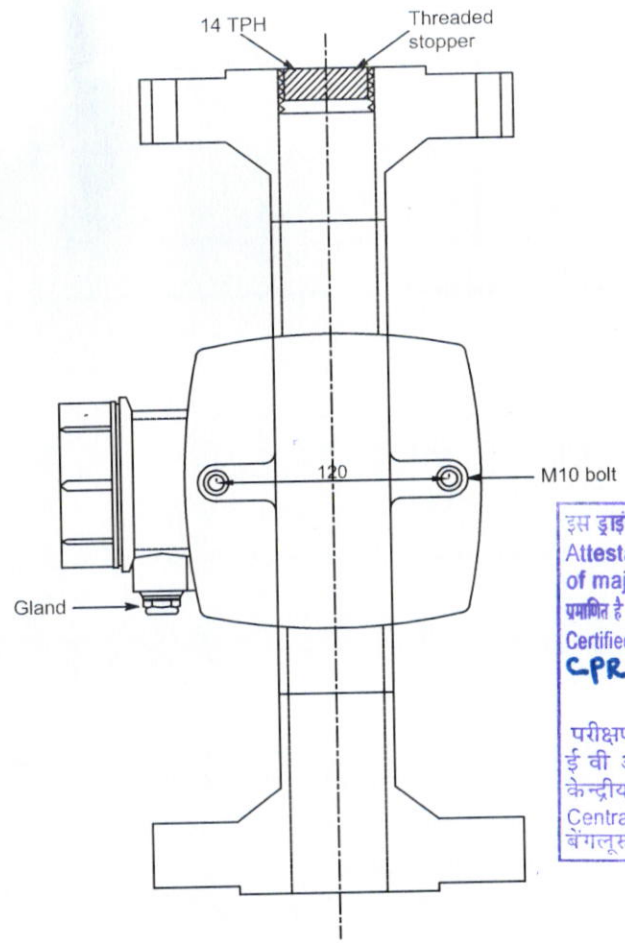
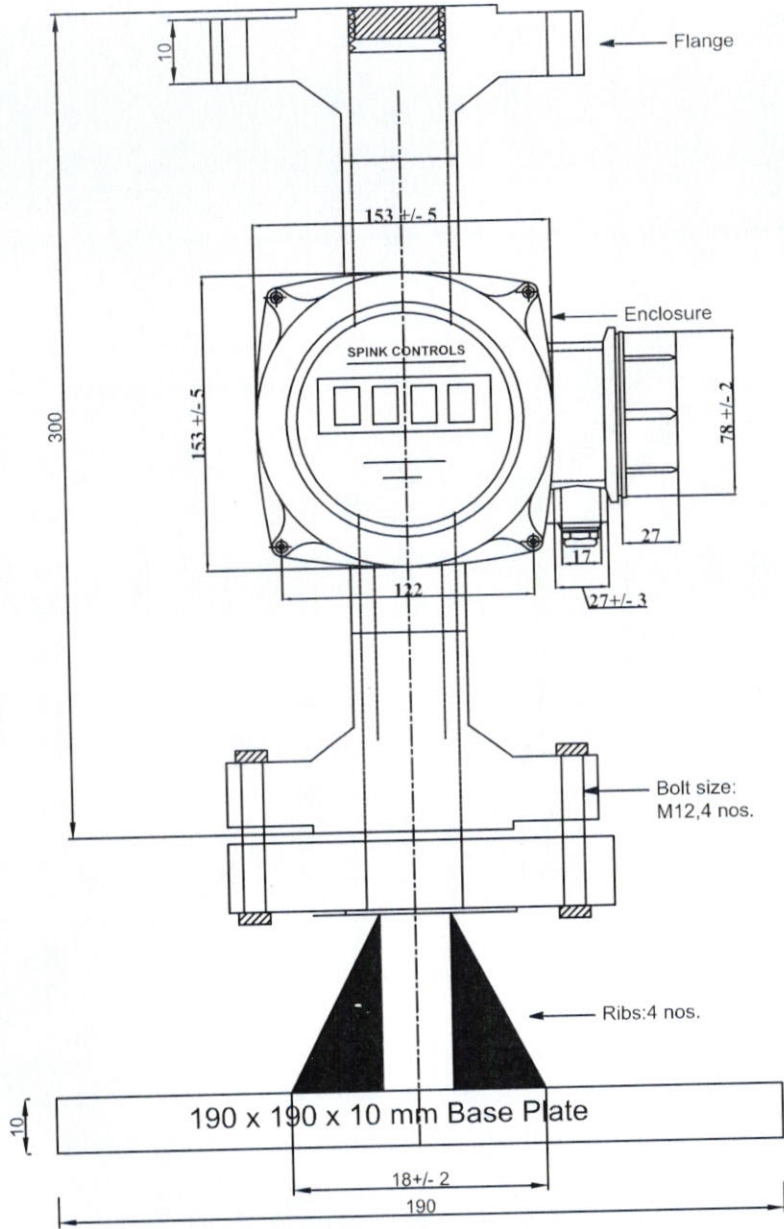


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Photograph Number 5 : Photograph showing detached threaded stopper

Yamini Gupta
(Yamini Gupta)
Test Engineer



इस ड्राइंग का अनुप्रमाणन मुख्य विभागों की जाँच तक ही सीमित है।
 Attestation of this drawing is limited to checking of major dimension only
 प्रमाणित है कि यह ड्राइंग सी पी आर आई परीक्षण रिपोर्ट सं..... से सम्बन्धित है।
 Certified that this drawing pertains to CPRI Test Report No.
CPRI/REVRC/MISC/25T0033
Tanishq
 परीक्षण इंजीनियर / Test Engineer
 ई की आर सी / EVRC
 केन्द्रीय विद्युत अनुसंधान संस्थान
 Central Power Research Institute
 बेंगलूरु / Bangalore - 560 080

DRAWING NOT TO SCALE
 ALL DIMENSIONS IN mm

SPINK CONTROLS			
CLIENT: M/s. NPCIL		REF : FOR SEISMIC TEST	
SC-ORD: 8168		ITEM: DIGITAL VARIABLE AREA FLOWMETER WITH BASE PLATE	
PRPD BY: AVR			
CHKD BY: VDR		QTY: 01 NO.	
DATE	DWG	SHEET	REV NO
19/05/2025	SC/R-300/SEI	1 OF 1	R02