



ASKIB Engineers Pvt. Ltd.

Regd. Off. & Lab. : 86D, Dr. Suresh Sarkar Road, Kolkata - 700 014, INDIA
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CALIBRATION CERTIFICATE

ASKB/MSD/FM-08
 Page 1 of 1 page

Certificate No. 11553/113 Issue Date : 09.12.2013 :
 Received Date 06.12.2013 Calibration Date 06.12.2013 Suggested Date 06.12.2014 .
 Issued to INDUSTRIAL PERFORATION (INDIA) PVT. LTD.
 GANGANAGAR, KATAKHAL,
 Kolkata - 700132.
 Traceability Certificate No. SG/13/038 valid upto 13.11.2015
 Certificate No. 07/113 valid upto 18.06.2014
 Certificate No. 14/113 valid upto 04.09.2014
 Basis of Calibration As per manufacturer's specification.
 Standard ref. used Gauge Block Set (2626), M. Test Foil & film thickness.
 Instrument Name Digital Coating Thickness Gauge Temp. 24°C
 Identification No. IPIPL/DGTC-01 Range 0-800 µm
 Make METRIX

CALIBRATION RESULTS

I] SCALE ERROR

Observation no.	Thickness set in microns.	Observed reading On DUC* in microns.	Error in µm
1	11	11.0	0
2	22	22.0	0
3	50	49.0	-1
4	100	97	-3
5	200	194	-6
6	600	596	-4

II] Film Calibration

Observation no.	Specified film thickness in µm	Tolerance Limit	Observed reading on reference standard in micron (Average of 3 readings)
1	81	±0.5	81.3
2	205	±1.0	206
3	414	±2.5	413
4	695	±4.0	697

Remarks :

The DUC* has been calibrated over its range and the reading observed are found within permissible limit in respect of accuracy.

Method:

The DUC* has been calibrated for its reading against thickness of films. The thickness has been ascertained through electronic comparator. The standards used are traceable to national standards.

Calibrated by :

A. Paul

A. Paul
 Technical Officer (Calibration)
 *DUC = Device Under Calibration

Issued by :

A.K. Ladsaria
 Chief Executive

CALIBRATION

ANNUAL MAINTENANCE



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VERIFICATION CERTIFICATE

ASKB/MSD/FM-08
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Certificate No. 11552/113 Date : 09.12.2013
 Received Date 06.12.2013 Verification Date 06.12.2013 Suggested Date 06.12.2014
 Issued to INDUSTRIAL PERFORATION (INDIA) PVT. LTD.
 GANGANAGAR, KATAKHAL,
 Kolkata - 700132.
 Traceability Certificate No: HTC/2012/09/105. Valid Upto 10.09.2014.
 Basis of Calibration Comparison method.
 Standard ref. used Reference Weights Box Temp. 22±1°C
 Instrument Name Digital Balance Range 0 - 600 g. Least Count 10 m g
 Identification No. IPIPL/DB-01 Make CAS

VERIFICATION RESULTS

Observation No.	Ref. Standard weights used in g.	Observed results on DUV* in g
1	600	600.080
2	500	500.042
3	400	400.082
4	200	200.008
5	100	100.002
6	50	50.004
7	20	20.002
8	10	10.005
9	5	5.002
10	2	2.001
11	1	1.001
12	0.500	0.500
13	0.200	0.200
14	0.100	0.100
15	0.050	0.050
16	0.020	0.020
17	0.010	0.010

Remarks : The balance has been verified at the request of the customer by using standard weights and tabulated above in respect of its accuracy. The weights are traceable to WMCL.

Note : The Verification and the results shall not be referred to or linked with issues coming under the purview of LEGAL METROLOGY.

The the Verification is done at the request of above client.

Calibrated by :

S. Mondal

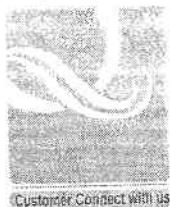
Subhasis Mondal
 Technical Officer (Verification)
 *DUV = Device Under Verification

Issued by :

A.K.LADSARIA
 Chief Executive.

CALIBRATION

ANNUAL MAINTENANCE



Quality Solutions (India)

ACCREDITED BY NABL (Deptt. of Science and Technology-Govt. of India)



NABL ACCREDITATION CERTIFICATE NO
C 9306, C 6402 & C 6493

CALIBRATION CERTIFICATE

CUSTOMER : M/S INDUSTRIAL PERFORATION (I) PVT. LTD.
GANGANAGAR, KATAKHAL, KOLKATA-700132

Date of Performance	: 10/06/2013	Certificate No.	: QSI/1829/13/06
Service Request No.	: QSI/1829/13/06	Service Request Date	: 10/06/2013
Page	: 1	Total Page	: 1
Unit Under Calibration	: Glass Thermometer	Environment Temperature	: 25°C ± 4°C
Calibration Procedure	: E/QSI/5.4/01.WI-02T	Relative Humidity	: 50 ± 10 % RH
Visual Inspection	: OK		

DETAILS OF UNIT UNDER CALIBRATION

Make	Range	L.C.	Location	Model	Sr. No./ID No.
DIMPLE	-10 to 110°C	1°C	---	---	IPIPL/TH-01

DETAILS OF STANDARD EQUIPMENTS USED FOR CALIBRATION

Name	Make	Sr. No.	Certificate No.	Validity	Calibrated By
RTD(PT-100) WITH INDICATOR	TEMPSENS	TPRT-41	TE/CAL-2819	01/12/2013	CMERI (GOVT. OF INDIA)

OBSERVATIONS

Sr. No.	Master (°C)	UUC (°C)	+/- Expanded Uncertainty (°C)
1	010.0	010	0.8
2	020.2	020	0.8
3	040.3	040	0.8
4	060.4	060	1.6
5	080.4	080	1.6
6	100.4	100	1.6

Temperature Scale : International Temperature Scale-1990

The reported measurement uncertainty is estimated at a level of confidence of approx. 95% with a coverage factor k=2

Location of Calibration : As per Cl 5.10.2 (b) of ISO /IEC 17025-2005) -QSI(FBD)

UUC:- Unit Under Calibration

Remark: As per IS-2480 : OK

Suggested Due Date 10/06/2014

Calibrated By
Parmod Kumar
(Technical Executive)

Issued By
Neeraj Mishra
(Technical Manager)



Quality Solutions (India)

ACCREDITED BY NABL (Deptt. of Science and Technology-Govt. of India)



CALIBRATION CERTIFICATE

CUSTOMER : M/S INDUSTRIAL PERFORATION (I) PVT. LTD.
GANGANAGAR, KATAKHAL, KOLKATA-700132

Date of Performance	: 10/06/2013	Certificate No.	: QSI/1830/13/06
Service Request No.	: QSI/1830/13/06	Service Request Date	: 10/06/2013
Page	: 1	Total Page	: 1
Unit Under Calibration	: HYDROMETER	Environment Temperature	: 20°C ± 1°C
Calibration Procedure	: WI-37M	Relative Humidity(%RH)	: 50 ± 10 %
Visual Inspection	: OK		

DETAILS OF UNIT UNDER CALIBRATION

Make	Range	L.C.	ID. NO.
--	1.000 - 2.000 Sp.gr @ 20° C	0.001 Sp.gr division	IPIPL/HM-01

DETAILS OF STANDARD EQUIPMENTS USED FOR CALIBRATION

Name	Make	Sr. No.	Certificate No.	Validity	Calibrated By
DENSITY HYDROMETER 1.000-1.050 Sp.gr @ 15° C	Kessler	92-5827 (QSI/HM/06)	Met R 14/2011-57(7)	11.08.2016	CMERI (GOVT. OF INDIA)
DENSITY HYDROMETER 1.100-1.150 Sp.gr @ 15° C	PSL	902463 (QSI/HM/07)	Met R 14/2011-57(8)	11.08.2016	CMERI (GOVT. OF INDIA)
Standard Solutions	LECHEM	--	56/06/2K11/TEST	10/06/2014	LECHEM

OBSERVATIONS

SCALE READING Sp.gr	Correction to be applied @20° C to give Sp.gr at 20° C g
1.000	+0.0002
1.050	+0.0003
1.100	+0.0004
1.110	+0.0004
1.150	+0.0004
2.000	+0.0004

Location of Calibration : (As per Cl 5.10.2 (b) of ISO /IEC 17025-2005) -QSI(FBD)

Basis Of Calibration : AS PER IS-3104-1982 Part-1 OK

Suggested Due Date : 10/06/2014

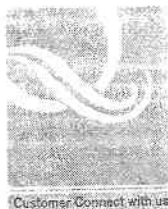
2.000 Sp. Gr. Range not in NABL SCOPE

Traceability of Standard(s) : The Standard Used for calibration is traceable to National Standards

Uncertainty of Measurement (At 95% Confidence Level, k=2) : ± 0.005 Sp.gr

Calibrated By
Shri Ram Dhiman
(Technical Executive)

Issued By
Ajay Kumar Singh
(Technical Manager)



Quality Solutions (India)

ACCREDITED BY NABL (Deptt. of Science and Technology-Govt. of India)



NABL ACCREDITATION CERTIFICATE NO.
C-0306, C-0432 & C-0493

CALIBRATION CERTIFICATE

CUSTOMER : M/S INDUSTRIAL PERFORATION (I) PVT. LTD.
GANGANAGAR, KATAKHAL, KOLKATA-700132

Date of Performance : 10/06/2013 Certificate No. : QSI/1828/13/06
Service Request No. : QSI/1828/13/06 Service Request Date : 10/06/2013
Page : 1 Total Page : 1
Unit Under Calibration : **Measuring Tape** Environment Temperature : $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$
Calibration Procedure : WI-11M Relative Humidity(%RH) : $50 \pm 10\%$
Visual Inspection : OK

DETAILS OF UNIT UNDER CALIBRATION

Make	Range	L.C.	Model No	ID No.
CENTIFLEX	0 ~ 3 Mtr.	1 mm	--	IPIPL/ST-02

DETAILS OF STANDARD EQUIPMENTS USED FOR CALIBRATION

Name	Make	ID No.	Certificate No.	Validity	Calibrated By
PROFILE PROJECTOR	OPTI-COM	QSI/PF/01	QSI/MI/26	01/03/2014	NABL LAB C-0306 (QSI)
CALIPER CHECKER	KCP	1146	KCP/05/11-12/3466	10/02/2014	NABL LAB C-0432 (KCP)

OBSERVATIONS

Sr.No.	Nominal Value (mm)	Observed Value(mm)
1	0000	0000.000(SET)
2	0200	0200.000
3	0500	0500.023
4	1000	1000.028
5	2000	2000.036
6	2500	2500.058
7	3000	3000.103

Location of Calibration : (As per Cl 5.10.2 (b) of ISO /IEC 17025-2005) -QSI(FBD)

Remark : Status as per IS-1269 OK

Suggested Due Date : 10/06/2014

Traceability of Standard(s) : The Standard Used for calibration is traceable to National Standards

Uncertainty of Measurement (At 95% Confidence Level, $k=2$) : ± 0.450 mm

Calibrated By
Shri Ram Dhiman
(Technical Executive)

Issued By
Ajay Kumar Singh
(Technical Manager)



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CALIBRATION CERTIFICATE



ASKB/MSD/FM-06

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Certificate No. 02424/113 Issue Date 11.06.2013.

Received Date 10.06.2013. Calibration Date 11.06.2013.

Suggested Date 10.06.2014.

Issued to INDUSTRIAL PERFORATION (INDIA) PVT. LTD.
GANGANAGAR, KATAKHAL,
Kolkata - 700132.

Traceability Certificate No. SG/11/823 Valid Upto 13.11.2013

Basis of Calibration In accordance with IS : 3651 (part II) 1985 reaffirmed 1994.

Standard ref. used Gauge Block Set. Temp. 25±1°C

Instrument Name Vernier Caliper Range 0-180 mm L.C.in mm 0.02

Id. / Location No. IPIPL/UNIT-II/VC-01. Make Mitutoyo
SI.No. 41135458.

Uncertainty Measurement at 95% Confidence Level k=2 ± 17.62 Micron max

CALIBRATION RESULTS

I] SCALE ERROR

Observation	Through Ref. Std. In mm	Length observed on DUC* in mm					Average in mm Mean	Error in mm	Measurement Uncertainty at 95% conf. Level K=2
		Set 1	Set 2	Set 3	Set 4	Set 5			
1	20.00	20.00	20.00	20.00	19.98	19.98	19.99	-0.01	17.6217
2	50.00	50.00	50.00	49.98	49.98	50.00	49.99	-0.01	17.4516
3	100.00	100.00	100.00	99.98	99.98	99.98	99.99	-0.01	17.5258
4	180.00	179.98	179.98	179.98	179.98	179.98	179.98	-0.02	13.2897

II] PARALLELISM ERROR (In between extreme top and bottom position that is nearest and farthest from the beam)

	Observed reading on DUC*	Tolerance limit
a) External measuring face :	2 µm	10 µm
b) Internal measuring face :	5 µm	10 µm

** Statement of Compliance : The DUC* has been calibrated for its working range and the result observed are found within permissible limit in respect of accuracy as per clause 9.1.1 & 9.2.1 of IS : 3651 (part-II) - 1985.

Note: 1) This certificate refers to the particular item submitted for calibration.

2) This certificate shall not be reproduced except in full unless written permission for publication of an approved abstract has been obtained from the Chief Executive, ASKIB Engineers Pvt. Ltd.

3) The results reported in this certificate are valid at the time and under the stated condition of measurement.

4) The calibration report & the results shall not be referred to or linked with issues coming under the purview LEGAL metrology.

Calibrated by :

A. Paul

Technical Officer (Calibration)

*DUC = Device Under Calibration

Issued by :

A.K. Ladsaria
Chief Executive
11.06.2013.

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ANNUAL MAINTENANCE