



TECHNOCALIBRATION LABORATORY PVT. LTD.

BALITIKURI, CHAKPARA, HOWRAH 711 113.

Servicing, Repairing & Calibration of Testing Machines, Lab Equipments, Temperature Instruments & all Type of Measuring Instruments.

Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207522000008723F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.					
		Balitikuri, Chakpara, Howrah - 711 113.					
Certificate No:	R012/009/08/22-23/002		Details of Instrument				
Certificate date:	03.08.2022		Name:	Pressure Gauge			
Date of calibration:	03.08.2022		Make:	Wika			
Suggested Due Date:	02.08.2023		Model No.:	EN837-1			
Environmental Condition	Temperature in ° C:	25	Serial No.:				
	Rel. Humidity in %:	67	Range in kg/Cm2	0-70			
Standard Followed:	DKD-R 6-1, NABL 129		Resolution in kg/Cm2	2			
Statement of Conformity:	Not Required		Identification No.:	RPEW/PG-01			
Description of method:	Compaired Method		Location:				
SOP No.:	WI-01/SEC-06		Received Date:	13.07.2022			
Details of Standard used							
Name of the instrument		Certificate No.		Calibrated By		Cal Date	Valid upto
Pressure gauge		VIS/22-23/M-523		Vijay Instrumentation Services		11.06.2022	11.06.2023
Discipline/Group:- Mechanical/Pressure							
Observation				All readings are in kg/Cm2			
Test Point	Test Reading	Standard Reading		Mean Value	Error	Hysteresis	Uncertainty (±)
		Avg. Ascending value	Avg. Descending value				
1	0	0.000	0.000	0.00	0.00	0.00	2.26
2	10	10.164	10.151	10.16	-0.16	-0.03	2.22
3	20	20.007	20.003	20.00	0.00	-0.02	2.22
4	30	30.013	30.005	30.01	-0.01	-0.03	2.22
5	50	50.019	50.007	50.01	-0.01	-0.04	2.26
6	70	70.024	70.010	70.02	-0.02	-0.05	2.26
Remarks: The above pressure gauge has been calibrated for its range in kg/cm² both in ascending and descending order. The calibration certificate shall not be reproduced in full without the written permission of Director. Note1: Uncertainty of Instrument are Convert to bar from kg/cm² as per IS : 786 – 1967. (1kg/cm² = 0.980665 bar) Note2: At coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution. 1) The Calibration certificate is issued by Technocalibration laboratory Pvt. Ltd. This Certificate refers only for the particular item submitted to calibrate. 2) The certificate if produced for any purpose commercial or otherwise, should be reproduced in full. Partial production of the certificate or an abstract thereof has to be got specifically approved from the technical and the quality manager of this lab. 3) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement. 4) The calibration result is only to be used for scientific & industrial purpose. This result can not be used for commercial purpose.							

CHECKED BY:



ISSUED BY :

CALIBRATION ENGINEER

SOUVIK MAITY
TECHNICAL MANAGER

Mobile : 9831121015

e-mail : technocalibration@gmail.com & technocalibration@rediffmail.com, Website : www.technocalibrationlaboratory.co.in



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CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207522000008722F

CALIBRATION CERTIFICATE

C.F.No:TCLPL/7.8/TEC/01

Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikuri, Chakpara, Howrah - 711 113.		
Certificate No.	R012/009/08/22-23/001	Received Date:	01.08.2022
Certificate Date	03.08.2022	Calibration Date	03.08.2022
Environmental Temp.	20° C ±1° C	Calibration Due On	02.08.2023
Sop No	WI - 01/SEC - 08/004	Relative Humidity	43% ±2%
Statndard Followed:	IS 4213:1991(Reaffirmed 2010)	Description method:	Direct Method
Statement Of Conformity: Not Required			

Details of Instruments

Name	Vernier Depth Caliper	SL No.	10214499
Make	Mitutoyo	Range	0-300 mm
Identification No.	10214499	Least Count	0.02 mm
		Location:	Quality

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Cal Date	Calibrated By	Valid Up To
Depth Micro Checker	KCP/06/22-23/0556	10.04.2022	K C P (Calibration Lab)	10.04.2024
Gauge Block	KCP/01/22-23/0558	13.04.2022	K C P (Calibration Lab)	13.04.2024

Discipline/Group:- Mechanical/Dimension.

Calibration Results

Scale

Sl.No.	Size of Standard in mm	Observed Avg. Values in mm	Error in μ m
1	0.00	0.000	0
2	21.10	21.100	0
3	31.02	31.018	-2
4	41.04	41.040	0
5	51.50	51.500	0
6	61.06	61.062	2
7	71.08	71.084	4
8	81.10	81.102	2
9	91.50	91.508	8
10	100.00	100.008	8
11	200.00	200.012	12
12	280.00	280.010	10

Uncertainty of measurement $\pm 30.6 \mu$ m

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal

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- 3) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement.
- 4) The calibration result is only to be used for scientific & Industrial purpose. This result can not be used for commercial purpose.

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CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207522000008674F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Customer's Details:		M/s.R.P.Engineering (P) Limited	
		Baltikuri,Chakpara,Howrah-711113	
Certificate No.	R012/191/07/22-23/002	Ins Recived Date	27.07.2022
Certificate Date	01.08.2022	Calibration Date	30.07.2022
Environmental Temp.	20° C $\pm$ 1° C	Calibration Due On	29.07.2023
SOP No.:	WI-01/SEC-08/016	Relative Humidity	52% $\pm$ 2%
Standard Followed	IS 2092 - 1983	Description Method	Direct Mehod
Statement of conformity	Not Required		
Details of Instruments			
Name	Bore Dial Gauge	Model	--
Make	Mitutoyo	Sl. No.	818723
Identification No.	818723	Range	50-150 mm
Location:	...	Least Count	0.01 mm
Details of Equipment Used for Calibration			
Instrument Name	Certificate No.	Cal Date	Due On
Steel Gauge Block Set	KCP/01/22-23/0558.	13.04.2022	13.04.2024
Caliper Checker	KCP/05/22-23/0555	10.04.2022	10.04.2024
Calibration Results			
Size of slips	Observed (avg) Values in mm		Error in μ m
0.10	0.1008		0.8
0.20	0.2014		1.4
0.30	0.3018		1.8
0.40	0.4026		2.6
0.50	0.5030		3.0
0.60	0.6035		3.5
0.70	0.7039		3.9
0.80	0.8050		5.0
0.90	0.9038		3.8
1.00	1.0042		4.2
1.50	1.5035		3.5
1.90	1.9049		4.9
Uncertainty of measurement			
(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)			
			$\pm$ 6.3 μ m
Remarks: The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.			
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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

Calibration Certificate

Customer's Details:	M/s. R. P. Engineering (P) Limited		
	Balitikure Chakpara, Howrah - 711113.		
Certificate No.	R012/191/07/22-23/003	Calibration Date	30.07.2022
Certificate Date	01.08.2022	Calibration Due On	29.07.2023
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Size	Identification No.
Thread Plug Gauge	T. T. Ltd.	IR 7433	1/4" X 18- Line Pipe	RPEPL/TPG - 02(1/4")

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	WOI/2022/221385/01	02.07.2022	01.07.2024	WOI

Calibration Results

All Dimensions in mm

	Specified	Tolerances	Results
Major Dia	13.402	$\pm$ 0.015	13.400
Pitch Dia	12.487	$\pm$ 0.005	12.484
Minor Dia	Cleared	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

$\pm$ 20 μ m

Remarks:

The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.

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Authorized Signatory

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CIN No. U73100WB2014PTC200542

Calibration Certificate

Customer's Details:	M/s. R. P. Engineering (P) Limited		
	Balitikure Chakpara, Howrah - 711113.		
Certificate No.	R012/191/07/22-23/004	Calibration Date	30.07.2022
Certificate Date	01.08.2022	Calibration Due On	29.07.2023
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Size	Identification No.
Thread Plug Gauge	--	--	4" BSTPT	RPEPL/TPG - 01(4")

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	WOI/2022/221385/01	02.07.2022	01.07.2024	WOI

Calibration Results

All Dimensions in mm

	Specified	Tolerances	Results
Major Dia	113.030	$\pm$ 0.018	113.027
Pitch Dia	111.551	$\pm$ 0.013	111.547
Minor Dia	110.072	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

$\pm$ 20 μ m

Remarks: The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.

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CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207522000008673F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Customer's Details:	M/s.R.P.Engineering (P) Limited		
	Baltikuri,Chakpara,Howrah-711113		
Certificate No.	R012/191/07/22-23/001	Ins Recived Date	27.07.2022
Certificate Date	01.08.2022	Calibration Date	30.07.2022
Environmental Temp.	20° C ±1° C	Calibration Due On	29.07.2023
SOP No.:	WI-01/SEC-08/002	Relative Humidity	50% ±10%
Satndard Followed:	IS 2921:1988 (Reaffirmed 2016)	Description Method:	Direct method
Statement Of Conformity:	Not Required		

Details of Instruments

Name	Vernier Height Gauge	Sl. No.	60007
Make	Mitutoyo	Range	0-300 mm
Identification No.	RP/60007	Least Count	0.02 mm
Location:	...	Model	...

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Cal Date	Due On	Calibrated By
Gauge Block	KCP/05/22-23/0558	13.04.2022	13.04.2024	K C P (Calibration Lab)
Caliper Checker	KCP/05/22-23/0555	10.04.2022	10.04.2024	K C P (Calibration Lab)

Discipline/Group:- Mechanical/Dimension.

Calibration Results

Sl.No.	Size of Standard in mm	Observed Avg. Values in mm	Error in μm
1	0.00	0.000	0.0
2	10.00	10.000	0.0
3	21.10	21.100	0.0
4	31.02	31.020	0.0
5	41.04	41.040	0.0
6	51.50	51.504	0.0
7	61.06	61.060	4.0
8	71.08	71.084	0.0
9	81.10	81.100	4.0
10	91.50	91.504	0.0
11	100.00	100.004	4.0
12	150.00	150.008	4.0
13	200.00	200.012	8.0
14	250.00	250.012	12.0
15	280.00	280.012	12.0

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

± 19.3 μm

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

Calibration Certificate

Customer's Details:		M/s. R. P. Engineering (P) Ltd.			
		Balitikuri, Chakpara, Howrah – 711113.			
Certificate No.	R012/076/06/22-23/010	Calibration Date	04.07.2022		
Certificate Date	06.07.2022	Calibration Due On	03.07.2023		
Environmental Temp.	20° C ±1° C	Relative Humidity	44 %		
Calibration Method	Comparison Method	Total No. of Page	1 of 1		
Details of Instruments					
Name		Drg. No.	Item	Alt. No.	Identification No.
Angle Profile Gauge for Lower Spring Seat		DL-0-1-103	--	--	G/02
Details of Equipment Used for Calibration					
Instrument Name	Certificate No.	Calibration Date	Calibrated By		
Profile Projector	WOI/2022/221385/01	02.07.2022	01.07.2024		
Calibration Results					
Sl. No.	Specified in mm	Observed in mm	Sl. No.	Specified in mm	Observed in mm
01.	146.3	146.309	04.	15°	15°
02.	145.7	145.710	05.		

146.30
145.70
15°

Remarks:

The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.
Reported Uncertainty Linier 20µm
Angle 9.6µm
Certificate send as a Form Gauge.

Calibrated By

CALIBRATION ENGINEER



Authorized Signatory

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CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207522000007463F

CALIBRATION CERTIFICATE

C.F.NO:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.						
		Balitikuri, Chakpara, Howrah – 711113.						
Certificate No.	R012/076/06/22-23/003	Received Date:	20.06.2022					
Certificate Date	06.07.2022	Calibration Date	04.07.2022					
Environmental Temp.	20° C ±1° C	Calibration Due On	03.07.2023					
SOP No.:	WI - 01/SEC - 08/026	Relative Humidity	0.38 %					
Standard Followed:	IS:5273-1969	Description Method:	Direct Method					
Statement Of Conformity Not Required								
Details of Instruments								
Name	Radius Gauge	SI. No.	--					
Make	Mitutoyo	Range	(1-7) mm					
Identification No.	RPE/RG-01	Location	--					
Details of Equipment Used for Calibration								
Instrument Name	Profile Projector	Certificate No.	Cal Date	Due Date	Calibrated By			
		WOI/2022/221385/01	02.07.2022	01.07.2024	WOI			
Discipline/Group:- Mechanical/Dimension.								
Calibration Results								
Concave				Convex				
Sl. No.	Size of Standard in mm	Observed Avg. Values in mm	Error in μ m	Sl. No.	Size of Standard in mm	Observed Avg. Values in mm	Error in μ m	Expended Uncertainty in ($\pm$) μ m 52.0 (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)
1	1.000	1.000	-0.2	1	1.000	1.000	0.0	
2	1.250	1.250	-0.2	2	1.250	1.249	-0.8	
3	1.500	1.499	-0.6	3	1.500	1.499	-1.0	
4	1.750	1.749	-1.4	4	1.750	1.749	-1.0	
5	2.000	2.000	0.0	5	2.000	1.999	-1.2	
6	2.250	2.249	-1.0	6	2.250	2.249	-0.8	
7	2.500	2.499	-0.6	7	2.500	2.499	-0.8	
8	2.750	2.749	-0.8	8	2.750	2.749	-1.0	
9	3.000	2.999	-0.6	9	3.000	2.999	-1.2	
10	3.500	3.499	-1.0	10	3.500	3.499	-1.4	
11	4.000	3.999	-0.8	11	4.000	3.999	-1.4	
12	4.500	4.499	-0.8	12	4.500	4.499	-1.2	
13	5.000	4.999	-0.6	13	5.000	4.999	-1.4	
14	5.500	5.498	-2.0	14	5.500	5.499	-1.2	
15	6.000	5.996	-4.4	15	6.000	5.999	-1.2	
16	6.500	6.496	-4.2	16	6.500	6.499	-1.2	
17	7.000	6.995	-5.4	17	7.000	6.999	-0.8	

Remarks: The above Instrument has been calibrated over its range and the readings observed are tabulated above.

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

Calibration Certificate

Customer's Details:	M/s. R. P. Engineering (P) Ltd.			
	Balitikuri, Chakpara, Howrah – 711113.			
Certificate No.	R012/076/06/22-23/014	Calibration Date	04.07.2022	
Certificate Date	06.07.2022	Calibration Due On	03.07.2023	
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%	
Calibration Method	IS: 8999 – 2003, IS: 554 – 1985 / ISO 228.7/1 – 1982		Total No. of Page	1 of 1
Details of Instruments				
Name	Make	Sl. No.	Size	Identification No.
Thread Plug Gauge	--	--	1" API	RPEL/TPG – 01 (1")
Details of Equipment Used for Calibration				
Profile Projector	WOI/2022/221385/01	02.07.2022	01.07.2024	WOI
Calibration Results				
All Dimensions in mm				
GO	Specified		Results	
Major Dia	33.401		33.403	
Pitch Dia	31.461		31.462	
Minor Dia	--		Cleared	
Uncertainty of measurement (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)				$\pm 20\mu\text{m}$
Remarks:	The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.			

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Calibration Certificate

Customer's Details:	M/s. R. P. Engineering (P) Ltd.			
	Balitikuri, Chakpara, Howrah – 711113.			
Certificate No.	R012/076/06/22-23/012	Calibration Date	04.07.2022	
Certificate Date	06.07.2022	Calibration Due On	03.07.2023	
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%	
Calibration Method	IS: 8999 – 2003, IS: 554 – 1985 / ISO 228.7/1 – 1982	Total No. of Page	1 of 1	
Details of Instruments				
Name	Make	Sl. No.	Size	Identification No.
Thread Plug Gauge	--	--	4" NPT	RPEL/TPG – 04A
Details of Equipment Used for Calibration				
Profile Projector	WOI/2022/221385/01	02.07.2022	01.07.2024	WOI
Calibration Results				
All Dimensions in mm				
GO	Specified	Tolerances	Results	
Major Dia	113.548	$\pm$ 0.041	113.543	
Pitch Dia	111.433	$\pm$ 0.013	111.432	
Minor Dia	109.318	--	Cleared	
Uncertainty of measurement (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)				$\pm$ 20 μ m
Remarks:	The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.			

Calibrated By

CALIBRATION ENGINEER



Authorized Signatory

SOUVIK MAITY
TECHNICAL MANAGER

Mobile : 9831121015

e-mail : technocalibration@gmail.com & technocalibration@rediffmail.com, Website : www.technocalibrationlaboratory.co.in

**TECHNOCALIBRATION LABORATORY PVT. LTD.****BALITIKURI, CHAKPARA, HOWRAH 711 113.**Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****Calibration Certificate**

Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikuri, Chakpara, Howrah – 711113.		
Certificate No.	R012/076/06/22-23/011	Calibration Date	04.07.2022
Certificate Date	06.07.2022	Calibration Due On	03.07.2023
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Model	Size	Identification No.
Thread Plug Gauge	--	--	--	6" API	RPEPL/TPG – 01 (6")

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	WOI/2022/221385/01	02.07.2022	01.07.2024	WOI

Calibration Results**All Dimensions in mm**

	Specified	Tolerances	Results
Major Dia	168.275	$\pm$ 0.025	168.272
Pitch Dia	165.252	$\pm$ 0.015	165.253
Minor Dia	Cleared	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

 $\pm 20\mu\text{m}$ **Remarks:**

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

Calibration Certificate

Customer's Details:		M/s. R. P. Engineering (P) Ltd.			
		Balitikuri, Chakpara, Howrah – 711113.			
Certificate No.	R012/019/07/22-23/001	Calibration Date	04.07.2022		
Certificate Date	06.07.2022	Calibration Due On	03.07.2023		
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%		
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1		
Details of Instruments					
Name	Make	Sl. No.	Model	Size	Identification No.
Thread Plug Gauge	--	--	--	8" NPT	RPEPL/TPG – 01 (8")
Details of Equipment Used for Calibration					
Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By	
Profile Protector	WOI/2022/221385/01	02.07.2022	01.07.2024	WOI	
Calibration Results					
All Dimensions in mm					
	Specified	Tolerances		Results	
Major Dia	219.075	$\pm$ 0.025		219.070	
Pitch Dia	215.901	$\pm$ 0.015		215.906	
Minor Dia	Cleared	--		Cleared	
Uncertainty of measurement (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)					$\pm$ 20 μ m
Remarks:	The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.				

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

Calibration Certificate

Customer's Details:		M/s. R. P. Engineering (P) Limited		
		Balitikure Chakpara, Howrah - 711113.		
Certificate No.	R012/019/07/22-23/002	Calibration Date	04.07.2022	
Certificate Date	06.07.2022	Calibration Due On	03.07.2023	
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%	
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1	
Details of Instruments				
Name	Make	Sl. No.	Size	Identification No.
Thread Plug Gauge	--	--	6" NPT	RPEPL/TPG - 02(6")
Details of Equipment Used for Calibration				
Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	WOI/2022/221385/01	02.07.2022	01.07.2024	WOI
Calibration Results				
All Dimensions in mm				
	Specified	Tolerances	Results	
Major Dia	167.366	$\pm$ 0.041	167.358	
Pitch Dia	165.252	$\pm$ 0.013	165.248	
Minor Dia	Cleared	--	Cleared	
Uncertainty of measurement (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)				$\pm$ 20 μ m
Remarks:	The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.			

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207522000006667F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.	
		Balitikuri, Chakpara, Howrah – 711113.	
Certificate No.	R012/076/06/22-23/001	Received Date:	20.06.2022
Certificate Date	22.06.2022	Calibration Date	22.06.2022
Environmental Temp.	20° C ±1° C	Calibration Due On	21.06.2023
Sop No.:	WI - 01/SEC - 08/004	Relative Humidity	43% ±2%
Standard Followed:	IS 2967 - 1983 (REAFFIRMED 2008)	Description Method:	Direct Method
Statement Of Conformity: Not Required			
Details of Instruments			
Name	Outside Micrometer	Sl. No.	9187655
Make	Mitutoyo	Range	150-300 mm
Identification No.	RPE/OM-03	Least Count	0.01 mm
Details of Equipment Used for Calibration			
Instrument Name	Certificate No.	Cal Date	Calibrated By
MIC Check Set	KCP/01/22-23/0554	07.04.2022	KCP
			Valid Up To
			07.04.2024
Discipline/Group:- Mechanical/Dimension.			
Calibration Results			
Scale			
Sl.No.	Size of Standard in mm	Observed Avg. Values in mm	Error in μ m
1	0.0	0.0000	0.0
2	2.5	2.5008	0.8
3	5.1	5.1008	0.8
4	7.7	7.7008	0.8
5	10.3	10.3008	0.8
6	12.9	12.9010	1.0
7	15.0	15.0012	1.2
8	17.6	17.6006	0.6
9	20.2	20.2012	1.2
10	22.8	22.8006	0.6
11	25.0	25.0012	1.2
Uncertainty of measurement			
(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)			
			± 6.7 μ m

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- 3) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement.
- 4) The calibration result is only to be used for scientific & Industrial purpose. This result can not be used for commercial purpose.

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Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207522000006667F

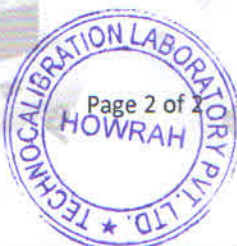
CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Certificate No.	R012/076/06/22-23/001	Calibration Date	22.06.2022
Certificate Date	22.06.2022	Calibration Due On	21.06.2023
Calibration Results			
Sticks			
Size of stick	Observed Avg. Values	Error	
in mm	in mm	in μm	
150	150.0003	0.3	
175	175.0004	0.4	
200	200.0004	0.4	
225	225.0005	0.5	
250	250.0005	0.5	
275	275.0006	0.6	
Uncertainty of measurement			
(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)		$\pm$	6.1 μm
Remarks: The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.			

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

Calibration Certificate

Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikuri, Chakpara, Howrah – 711113.		
Certificate No.	R012/076/06/22-23/009	Calibration Date	22.06.2022
Certificate Date	22.06.2022	Calibration Due On	21.06.2023
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	55% $\pm$ 10%
Calibration Method	IS: 2092 - 1983	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Model	Range	Least Count	Identification No.
Surface Roughness Tester	Rubert & Co. Ltd.	--	--	--	--	RPE/SRT – 01

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Comparator stand with Probe & DRO	KCP/28/22-23/0559	18.04.2022	18.04.2024	KCP

Calibration Results

The above instrument is verified against standard specimen & the corresponding reading is tabulated below.

Value specified at the standard specimen in μm	Results observed on the Tester in μm			
	Set - I	Set-II	Set-III	Set-IV
2.95	2.95	2.95	2.96	2.96

Uncertainty of measurement

(at coverage factor $K=2$ which corresponds to a coverage probability of approximate 95% for a normal distribution)

$\pm 10\mu\text{m}$

Remarks:

The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.

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**TECHNOCALIBRATION LABORATORY PVT. LTD.****BALITIKURI, CHAKPARA, HOWRAH 711 113.**Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****NABL ACCREDITED CALIBRATION LABORATORY**

ULR No.: CC207522000006671F

CALIBRATION CERTIFICATE

C.F No.:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.		
		Balitikuri, Chakpara, Howrah – 711113.		
Certificate No.	R012/076/06/22-23/005	Ins Recived Date	20.06.2022	
Certificate Date	22.06.2022	Calibration Date	22.06.2022	
Environmental Temp.	25° C ±3° C	Calibration Due On	21.06.2023	
SOP No.:	WI-01/SEC-09A	Relative Humidity	50% ±10%	
Standard Followed:	Direct Method (NABL 129)	Description Method:	Direct Method	
Statement Of Conformity:	Not Required			
Details of Instruments				
Name	Thermocouple	Type	R	
Make	N/A	Model	--	
Identification No.	RPEPL/TC - 03	SI. No.	--	
Fitted	...	Range	1600 °C	
Details of Equipment Used for Calibration				
Instrument Name	Certificate No.	Cal Date	Due on	
S type thermocouple With Indicator	CC223921000000271F	07.10.2021	06.10.2022	
		Calibrated By Asian Technology		
Discipline/Group:- Thermal-Temperature				
Calibration Results				
SI.No.	Reading on Standard in °C	Observed Avg. Values on DUC in °C	Error in °C	Expanded Uncertainty (±)
1	400	401	1	4.56 °C
2	800	802	1	4.56 °C
3	1202	1203	1	4.56 °C
4	1402	1404	1	4.56 °C
5	1597	1599	3	4.56 °C
Uncertainty of measurement				
(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal				
1) The Calibration certificate is issued by Technocalibration laboratory Pvt. Ltd. This Certificate refers only for the particular item submitted to calibrate.				
2) The certificate if produced for any purpose commercial or otherwise, should be reproduced in full. Partial production of the certificate or an abstract thereof has to be got specifically approved from the technical and the quality manager of this lab.				
3) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement.				
4) The calibration result is only to be used for scientific & Industrial purpose. This result can not be used for commercial purpose.				

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Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****NABL ACCREDITED CALIBRATION LABORATORY**

ULR No.: CC207522000006674F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.			
		Balitikuri, Chakpara, Howrah – 711113.			
Certificate No.	R012/076/06/22-23/008	Received Date	--		
Certificate Date	22.06.2022	Calibration Date	22.06.2022		
Environmental Temp.	20° C ±1° C	Calibration Due On	21.06.2023		
SOP No.:	WI - 01/SEC - 09A	Relative Humidity	50% ±10%		
Standard Followed:	Direct Method (NABL 129)	Description Method:	Direct Method		
Statement Of Conformity:	Not Required				
Details of Instruments					
Name	Digital Temperature Indicator	Type	K		
Make	--	Model	--		
Identification No.	RPEPL/DTI-02	Sl. No.	--		
Fitted in	Muffle Furnace	Range	0-1200 °C		
Location:	--	Least Count	1 °C		
Details of Equipment Used for Calibration					
Instrument Name	Certificate No.	Cal Date	Calibrated By	Due On	
Handy Cal	EMC2021-KOL-00051856	18.11.2021	EMC	15.06.2022	
Discipline/Group:- Electro-Technical/Temperature Simulation.					
Calibration Results					
Scale					
Sl.No.	Set on Standard in °C	Observed Avg. Values on DUC in °C	Error in °C	K - Factor	Expanded Uncertainty at 95% C.L. (±)
1	230	230.6	0.6	2	1.3 °C
2	400	398.6	-1.4	2	1.4 °C
3	600	597.6	-2.4	2	2.0 °C
4	800	797.4	-2.6	2	2.0 °C
5	1000	996.4	-3.6	2	2.0 °C
6	1200	1194.8	-5.2	2	2.0 °C
Uncertainty of measurement					
(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)					
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3) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement.					
4) The calibration result is only to be used for scientific & Industrial purpose. This result can not be used for commercial purpose.					

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207522000006668F

CALIBRATION CERTIFICATE

C.F.No. TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.		
		Balitikuri, Chakpara, Howrah – 711113.		
Certificate No.	R012/076/06/22-23/002	Received Date:	20.06.2022	
Certificate Date	22.06.2022	Calibration Date	22.06.2022	
Environmental Temp.	20° C ±1° C	Calibration Due On	21.06.2023	
SOP No.:	WI - 01/SEC - 08/004	Relative Humidity	43% ±2%	
Standard Followed:	IS 2967 - 1983 (REAFFIRMED 2008)	Description Method:	Direct Method	
Statement Of Conformity:	Not Required			
Details of Instruments				
Name	Outside Micrometer	Type.		
Make	--	Sl. No.	--	
Identification No.	RPE/OM-02	Range	0 - 25 mm	
Location:	Lab	Least Count	0.01 mm	
Details of Equipment Used for Calibration				
Instrument Name	Certificate No.	Cal Date	Calibrated By	Valid Up To
Micrometer Check Set	KCP/01/22-23/0554	07.04.2022	KCP	07.04.2024
Calibration Results				
Scale				
Sl.No.	Size of Standard in mm	Observed Avg. Values in mm	Error in μ m	
1	0.0	0.0000	0.0	
2	2.5	2.5000	0.0	
3	5.1	5.1000	0.0	
4	7.7	7.7000	0.0	
5	10.3	10.3000	0.0	
6	12.9	12.9000	0.0	
7	15.0	15.0000	0.0	
8	17.6	17.6000	0.0	
9	20.2	20.2002	0.2	
10	22.8	22.8002	0.2	
11	25.0	25.0006	0.6	
Uncertainty of measurement (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)				
			±	8.2 μ m
1) The Calibration certificate is issued by Technocalibration laboratory Pvt. Ltd. This Certificate refers only for the particular item submitted to calibrate.				
2) The certificate if produced for any purpose commercial or otherwise, should be reproduced in full. Partial production of the certificate or an abstract thereof has to be got specifically approved from the technical and the quality manager of this lab.				
3) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement.				
4) The calibration result is only to be used for scientific & Industrial purpose. This result can not be used for commercial purpose.				

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207522000006670F

CALIBRATION CERTIFICATE

C.F.NO:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.					
		Balitikuri, Chakpara, Howrah – 711113.					
Certificate No:	R012/076/06/22-23/004	Received Date:	20.06.2022				
Certificate date:	22.06.2022	Details of Instrument					
Date of calibration:	22.06.2022	Name:	Pressure Gauge				
Suggested Due Date:	21.06.2023	Make:	Wika				
Environmental Condition	Temperature in ° C:	25	Serial No.:				
	Rel. Humidity in %:	67	Range in kg/Cm2	0-160			
			Resolution in kg/Cm2	5			
			Identification No.:	RPE/PG-03			
SOP No.:	WI-01/SEC-05	Section:	--				
Description of method	Compaired Method	Standard Followed:	DKD-R 6-1, NABL 129				
Ins Recived date		Statement Of Conform	Not Required				
Details of Standard used							
Name of the instrument		Certificate No.	Calibrated By	Cali Date	Valid upto		
Pressure Gauge		VIS/21-22/T-240	Vijay Enterprises	09.03.2022	09.03.2023		
Group/Discipline-Mechanical-Pressure							
Observation		All readings are in kg/Cm2					
Test Point	Test Reading	Standard Reading		Mean Value	Error	Hysteresis	Uncertainty in Bar
		Avg. Ascending value	Avg. Descending value				
1	0	0.00	0.00	0.00	0.00	0.00	5.77
2	10	10.02	9.99	10.01	0.00	-0.08	5.77
3	50	50.01	49.96	49.99	0.02	-0.08	5.77
4	100	100.01	99.95	99.98	0.02	-0.08	5.77
5	160	161.38	161.25	161.32	-1.32	-0.08	5.77
Remarks:	The above pressure gauge has been calibrated for its range in kg/cm² both in ascending and descending order.						
Note:	Uncertainty of Instrument are Convert to bar from kg/cm2 as per IS : 786 – 1967. (1kg/cm2 = 0.980665 bar)						
1) The Calibration certificate is issued by Technocalibration laboratory Pvt. Ltd. This Certificate refers only for the particular item submitted to calibrate.							
2) The certificate if produced for any purpose commercial or otherwise, should be reproduced in full. Partial production of the certificate or an abstract thereof has to be got specifically approved from the technical and the quality manager of this lab.							
3) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement.							
4) The calibration result is only to be used for scientific & Industrial purpose. This result can not be used for commercial purpose.							

CHECKED BY:

CALIBRATION ENGINEER



ISSUED BY :

SOUVIK MAITY
TECHNICAL MANAGER

Mobile : 9831121015

e-mail : technocalibration@gmail.com & technocalibration@rediffmail.com, Website : www.technocalibrationlaboratory.co.in

**TECHNOCALIBRATION LABORATORY PVT. LTD.****BALITIKURI, CHAKPARA, HOWRAH 711 113.**Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****NABL ACCREDITED CALIBRATION LABORATORY**

ULR No.: CC207522000006672F

CALIBRATION CERTIFICATE

C.F No.:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.			
		Balitikuri, Chakpara, Howrah – 711113.			
Certificate No.	R012/076/06/22-23/006	Ins Recived Date	20.06.2022		
Certificate Date	22.06.2022	Calibration Date	22.06.2022		
Environmental Temp.	25° C $\pm$ 3° C	Calibration Due On	21.06.2023		
SOP No.:	WI-01/SEC-09A	Relative Humidity	50% $\pm$ 10%		
Standard Followed:	Direct Method (NABL 129)	Description Method:	Direct Method		
Statement Of Conformity:	Not Required				
Details of Instruments					
Name	Thermocouple	Type	K		
Make	N/A	Model	--		
Identification No.	RPEPL/TC - 01	Sl. No.	--		
Fitted	...	Range	1200 °c		
Details of Equipment Used for Calibration					
Instrument Name	Certificate No.	Cal Date	Due on	Calibrated By	
S type thermocouple With Indicator	CC223921000000271F	07.10.2021	06.10.2022	Asian Technology	
Discipline/Group:- Thermal-Temperature					
Calibration Results					
Sl.No.	Reading on Standard in °C	Observed Avg. Values on DUC in °C	Error in °C	Expanded Uncertainty ($\pm$)	
1	399.66	400.6	0.94	4.4 °C	
2	499.32	501.6	2.28	4.4 °C	
3	749.26	750.6	1.34	4.56 °C	
4	948.88	951.4	2.52	4.56 °C	
5	1198.58	1202.2	3.62	4.56 °C	
Uncertainty of measurement					
(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal					
1) The Calibration certificate is issued by Technocalibration laboratory Pvt. Ltd. This Certificate refers only for the particular item submitted to calibrate.					
2) The certificate if produced for any purpose commercial or otherwise, should be reproduced in full. Partial production of the certificate or an abstract thereof has to be got specifically approved from the technical and the quality manager of this lab.					
3) The results in the calibration certificate are valid at the-time of and under the stated conditions on measurement.					
4) The calibration result is only to be used for scientific & Industrial purpose. This result can not be used for commercial purpose.					

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TECHNOCALIBRATION LABORATORY PVT. LTD.

BALITIKURI, CHAKPARA, HOWRAH 711 113.

Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
Temperature Instruments & all Type of Measuring Instruments.

Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207522000006673F

CALIBRATION CERTIFICATE

C.F No.:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.			
		Balitikuri, Chakpara, Howrah – 711113.			
Certificate No.	R012/076/06/22-23/007	Ins Recived Date	20.06.2022		
Certificate Date	22.06.2022	Calibration Date	22.06.2022		
Environmental Temp.	25° C ±3° C	Calibration Due On	21.06.2023		
SOP No.:	WI-01/SEC-09A	Relative Humidity	50% ±10%		
Standard Followed:	Direct Method (NABL 129)	Description Method:	Direct Method		
Statement Of Conformity:	Not Required				
Details of Instruments					
Name	Thermocouple	Type	K		
Make	N/A	Model	---		
Identification No.	RPEPL/TC - 02	SI. No.	---		
Fitted	...	Range	1200 °C		
Details of Equipment Used for Calibration					
Instrument Name	Certificate No.	Cal Date	Due on	Calibrated By	
S type thermocouple With Indicator	CC223921000000271F	07.10.2021	06.10.2022	Asian Technology	
Discipline/Group:- Thermal-Temperature					
Calibration Results					
SI.No.	Reading on Standard in °C	Observed Avg. Values on DUC in °C	Error in °C	Expanded Uncertainty (±)	
1	399.66	400.2	0.54	4.4 °C	
2	499.32	501.4	2.08	4.4 °C	
3	749.26	750.4	1.14	4.56 °C	
4	948.88	951.4	2.52	4.56 °C	
5	1198.58	1201.4	2.82	4.56 °C	
Uncertainty of measurement					
(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal					
1) The Calibration certificate is issued by Technocalibration laboratory Pvt. Ltd. This Certificate refers only for the particular item submitted to calibrate.					
2) The certificate if produced for any purpose commercial or otherwise, should be reproduced in full. Partial production of the certificate or an abstract thereof has to be got specifically approved from the technical and the quality manager of this lab.					
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4) The calibration result is only to be used for scientific & Industrial purpose. This result can not be used for commercial purpose.					

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Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****Calibration Certificate****Customer's Details:****M/s. R.P. Engineering (P) Ltd.**

Balitikuri, Chakpara, Howrah - 711 113.

Certificate No.	R012/074/01/21-22/003	Calibration Date	11.01.2022
Certificate Date	12.01.2022	Calibration Due On	10.01.2023
Environmental Temp.	28° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	Comparison Method (Asper IS -12818:2010)	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Size	Identification No.
Ring Gauge	--	1/4" X 18 API	RPEPL/RG-01

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Digital Calipers	T021/02/20-21/001	15.02.2021	14.02.2022	TCLPL

Calibration Results

Sl. No.	Specified Dimension in mm		Observed Dimension in mm
01.	Outer Diameter	6.35	6.38
02.	TPI	18	18
03.	Angle	60°	60°
04.	Taper	1:16	1:16

Remarks:

The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.

Calibrated By**CALIBRATION ENGINEER****Authorized Signatory**
SOUVIK MAITY**TECHNICAL MANAGER****Mobile : 9831121015****e-mail : technocalibration@gmail.com & technocalibration@rediffmail.com, Website : www.technocalibrationlaboratory.co.in**

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Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****Calibration Certificate**

Customer's Details:	M/s. R.P. Engineering (P) Ltd.			
	Balitikuri, Chakpara, Howrah - 711 113.			
Certificate No.	R012/074/01/21-22/002	Calibration Date	11.01.2022	
Certificate Date	12.01.2022	Calibration Due On	10.01.2023	
Environmental Temp.	28° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%	
Calibration Method	Comparison Method (Asper IS -12818:2010)	Total No. of Page	1 of 1	
<u>Details of Instruments</u>				
Name	Make	Size	Identification No.	
Plug Gauge	Truthread	RC 1/2-14 API	RPEPL/PG-01	
<u>Details of Equipment Used for Calibration</u>				
Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Digital Calipers	T021/02/20-21/001	15.02.2021	14.02.2022	TCLPL
<u>Calibration Results</u>				
Sl. No.	Specified Dimension in mm		Observed Dimension in mm	
01.	Outer Diameter	12.7	12.73	
02.	TPI	14	14	
03.	Angle	60°	60°	
04.	Taper	1:16	1:16	
Remarks:	The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.			

Calibrated By

Authorized Signatory

SOUVIK MAITY
TECHNICAL MANAGER**CALIBRATION ENGINEER**

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**TECHNOCALIBRATION LABORATORY PVT. LTD.****BALITIKURI, CHAKPARA, HOWRAH 711 113.**Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****NABL ACCREDITED CALIBRATION LABORATORY**

ULR No.: CC207522000000309F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.			
		Balitikuri, Chakpara, Howrah - 711113.			
Certificate No.	R012/074/01/21-22/001		Calibration Date	11.01.2022	
Certificate Date	12.01.2022		Calibration Due On	10.01.2023	
Environmental Temp.	25° C $\pm$ 2° C		Relative Humidity	50% $\pm$ 10%	
Calibration Method	WI - 01/SEC - 09/001				
<u>Details of Instruments</u>					
Name	Digital Temperature Controller		Type	K	
Make	M.C.E.		Model	--	
Identification No.	RP/DTC - 01		Sl. No.	--	
Fitted in	--		Range	0-1200 °C	
Location:	---		Least Count	1 °C	
<u>Details of Equipment Used for Calibration</u>					
Instrument Name	Certificate No.	Cal Date	Calibrated By		
Handy Cal	EMC2020-KOL-00009007	15.06.2020	EMC		
Discipline/Group-Electrotechnical/Temperature Simulation.					
<u>Calibration Results</u>					
<u>Scale</u>					
Sl.No.	Set on Standard in °C	Observed Avg. Values on DUC in °C	Error in °C	K - Factor	Expanded Uncertainty at 95% C.L. ($\pm$)
1	200	200.2	0.2	2	1 °C
2	400	400.4	0.4	2	1 °C
3	600	600.6	0.6	2	2 °C
4	800	801.2	1.2	2	2 °C
5	1000	1001.6	1.6	2	2 °C
6	1200	1201.8	1.8	2	2 °C
Uncertainty of measurement (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)					

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ELECTRONIC & ENGINEERING CO. [I] P. LTD.

TEST CERTIFICATE

CERTIFICATE NO: DECAL065894

THIS IS CERTIFY THAT ELECTROMAGNETIC INSPECTION YOKE

MODEL : EF-2Y

SR. NO. : MNH20F22

1.0 INPUT SUPPLY : 230 V, 50 Hz, 1 PHASE, 2.5A.

1.1 MAGNETIC MODE : AC/ HWDC

HAS BEEN TESTED MEETS PERFORMANCE CHARACTERISTIC REQUIREMENTS AS PER ASTM-E-709 SPECIFICATIONS.

2.0 PERFORMANCE CHARACTERISTICS ARE AS FOLLOWS :

MODE	WEIGHT LIFTED
AC	7 KG
HWDC	27 KG

ABOVE IS MESURED AT A SPECING OF 140 MM BETWEEN THE TWO LEGS(POLES).

DATE : 11/09/2021

VALIED UPTO : 10/09/2022

SIGNED :

NAME OF THE INSPECTOR: SMIT SHAH

ELECTRONIC & ENGINEERING CO. [I] P. LTD.

8, 2nd Floor, Jyoti Wire House, Near Kolsite, Off Veera Desai Road,
Andheri (W), Mumbai - 400 053.

India Tel No.: - 91-22-2673 5050 / 5692 0225 Fax:- 91-22-5692 9792

Email:- ndtsales@eecindia.com Website:- www.eecindia.com



**TECHNOCALIBRATION LABORATORY PVT. LTD.****BALITIKURI, CHAKPARA, HOWRAH 711 113.**Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****NABL ACCREDITED CALIBRATION LABORATORY**

ULR No.: CC207521000011731F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Customer's Details: M/s. R. P. Engineering (P) Ltd.					
Balitikuri, Chakpara, Howrah - 711113.					
Certificate No.	R012/040/12/21-22/001		Calibration Date	09.12.2021	
Certificate Date	16.12.2021		Calibration Due On	08.12.2022	
Environmental Temp.	25° C ±1° C		Relative Humidity	50% ±10%	
Calibration Method	WI - 01/SEC - 09/001				
Details of Instruments					
Name	Temperature Controller		Type	K	
Make	Enur		Model	--	
Identification No.	RP/TC - 01		Sl. No.	1403	
Fitted in	--		Range	0-1200 °c	
Location	--		Least Count	10 °c	
Details of Equipment Used for Calibration					
Instrument Name	Certificate No.	Cal Date	Calibrated By		
Handy Cal	EMC2021-KOL-00051856	18.11.2021	EMC		
Discipline/Group:- Electro-Technical/Temperature Simulation.					
Calibration Results					
Scale					
Sl.No.	Set on Standard in °C	Observed Avg. Values on DUC in °C	Error in °C	K - Factor	Expanded Uncertainty at 95% C.L. (±)
1	200	200.8	0.8	2	3.2 °C
2	400	401.2	1.2	2	3.2 °C
3	600	601.6	1.6	2	3.3 °C
4	800	802.0	2.0	2	3.3 °C
5	1000	1002.8	2.8	2	3.4 °C
6	1200	1203.2	3.2	2	3.4 °C
Uncertainty of measurement (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)					

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CALIBRATION CERTIFICATE

C.F.NO.: TCLP/L/7.8/TEC/01

USE No.: CC207521000011740F

Customer's Details: M/s. R. P. Engineering (P) Ltd.
 Balitikuri, Chakpara, Howrah - 711113.

Certificate No. R012/040/12/21-22/010
Calibration Date 16.12.2021
Environmental Temp. 20° C $\pm$ 1° C
Calibration Method WI - 01/SEC - 08/022
Calibration Date 09.12.2021
Calibration Due On 08.12.2022
Relative Humidity 47% $\pm$ 1%

Name Universal Bevel Protector
Make Mitutoyo
Identification No. RPE/UBP - 01
Model --
Range 0-360°
Least Count 5 min
S/N --
Location --

Details of Equipment Used for Calibration
Instrument Name Profile Projector
Certificate No. CC200520000003562F
Cal Date 17.06.2020
Calibrated By W.O.I

Calibration Results
Scale

S.No.	Size of Standard in °	Observed Values in °	Error in °	Expanded Uncertainty in °
1	5	4.922	-0.078	0.09
2	1	59.907	-0.093	
3	90	89.797	-0.203	
4	120	119.772	-0.228	
5	180	179.734	-0.266	
6	240	239.735	-0.265	
7	270	269.653	-0.347	
8	300	299.585	-0.415	
9	360	359.557	-0.443	

Reported Uncertainty of measurement
 at coverage factor K=2 which corresponds to a coverage probability of approximately 95% for a normal distribution)

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C.F.NO.:TCLPL/7.8/TEC/01

URL No.: CC207521000011739F

CALIBRATION CERTIFICATE

Customer's Details:		M/s. R. P. Engineering (P) Ltd. Balitkuri, Chakpara, Howrah - 711113.	
Certificate No.	R012/040/12/21-22/009	Certificate Date	16.12.2021
Environmental Temp.	20° C ±1° C	Calibration Due On	08.12.2022
Calibration Method	WI - 01/SEC - 08/004	Relative Humidity	50% ±10%
Details of Instruments			
Name:	Outside Micrometer	Model	06140204
Make:	Mitutoyo	SI. No.	0-150 mm
Identification No.:	RPE/OM - 01	Range	0.01 mm
Details of Equipment Used for Calibration			
Instrument Name	MIC Check Set	Cal Date	14.03.2020
Electronic Probe(DRO)	KCP/01/19-20/9184	Calibrated By	KCP
Discipline/Group:-	Mechanical/Dimension		
Calibration Results			
Scale			
SLNo.	Size of Standard in mm	Observed Avg. Values in mm	Error in µm
1	0.00	0.0000	0.0
2	2.50	2.5002	0.2
3	5.10	5.1002	0.2
4	7.70	7.7004	0.4
5	10.30	10.3004	0.4
6	12.90	12.9006	0.6
7	15.00	15.0008	0.8
8	17.60	17.6008	0.8
9	20.20	20.2008	0.8
10	22.80	22.8008	0.8
11	25.00	25.0014	1.4
Uncertainty of measurement			
at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)			
± 6.7 µm			

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BALITIKURI, CHAKPARA, HOWRAH 711 113.

Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



URL No.: CC207521000011738F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/T

Customer's Details: **M/s. R. P. Engineering (P) Ltd.**

Balitikuri, Chakpara, Howrah - 711113.

Certificate No.	R012/040/12/21-22/008	Calibration Date	09.12.2021
Certificate Date	16.12.2021	Calibration Due On	08.12.2022
Environmental Temp.	20° C $\pm$ 1° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	WI - 01/SEC - 08/016		

Details of Instruments

Name	Bore Dial Gauge	Model	--
Make	Mitutoyo	Sl. No.	0024743
Identification No.	0024743	Range	50-150 mm
Location:	--	Least Count	0.01 mm

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Cal Date	Calibrated By
Steel Gauge Block Set	KCP/01/19-20/9183	17.03.2020	KCP
Caliper Checker	KCP/05/19-20/9189	15.03.2020	KCP

Calibration Results

Scale

Size of slips	Observed (avg) Values in mm	Error in μ m
0.10	0.1008	0.8
0.20	0.2011	1.1
0.30	0.3009	0.9
0.40	0.4013	1.3
0.50	0.5012	1.2
0.60	0.6013	1.3
0.70	0.7015	1.5
0.80	0.8015	1.5
0.90	0.9015	1.5
1.00	1.0015	1.5
1.50	1.5018	1.8
1.90	1.9025	2.5

Uncertainty of measurement

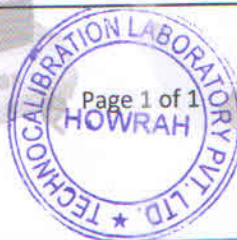
(at coverage factor K=2 which corresponds to a coverage probability of approximately 95% for a normal distribution)

$\pm$ 6.3 μ m

Remarks: The above instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.

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Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
Temperature Instruments & all Type of Measuring Instruments.

Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



CC-2075

ULR No.: CC207521000011737F

CALIBRATION CERTIFICATE

CF.N.O:TCLPL/7.8/TE

Customer's Details:		M/s. R. P. Engineering (P) Ltd.	
		Balitikuri, Chakpara, Howrah - 711113.	
Certificate No.	R012/040/12/21-22/007	Calibration Date	09.12.2021
Certificate Date	16.12.2021	Calibration Due On	08.12.2022
Environmental Temp.	20° C ±1° C	Relative Humidity	43% ±2%
Calibration Method	WI - 01/SEC - 08/004		
Details of Instruments			
Name	Vernier Caliper	Type	--
Make	Mitutoyo	Sl. No.	--
Identification No.	RPE/VC - 07	Range	0-600 mm
		Least Count	0.02 mm
		Location	--
Details of Equipment Used for Calibration			
Instrument Name	Certificate No.	Cal Date	Calibrated By
Slip Gauge Set	KCP/01/19-20/9183	17.03.2020	KCP
Caliper Checker	KCP/05/19-20/9189	15.03.2020	KCP
Discipline/Group:- Mechanical/Dimension.			
Calibration Results			
Scale			
External JAW			
Sl.No.	Size of Standard in mm	Observed Avg. Values in mm	Error in μ m
1	0.00	0.000	0
2	25.00	25.004	4
3	51.02	51.028	8
4	76.04	76.048	8
5	91.50	91.508	8
6	100.00	100.012	12
7	300.00	300.012	12
8	600.00	600.012	12
Internal JAW			
	Size of Standard in mm	Observed Avg. Values in mm	Error in μ m
	20.0	20.000	0
	100.0	100.008	8
	300.0	300.008	8
	600.0	600.012	12
Uncertainty of measurement			
at coverage factor K=2 which corresponds to a coverage probability of approximate 95 % for a normal distribution)			
± 30.2 μ m			

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HOWRAH

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Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****NABL ACCREDITED CALIBRATION LABORATORY**

ULR No.: CC207521000011736F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8

Customer's Details: M/s. R. P. Engineering (P) Ltd.

Balitikuri, Chakpara, Howrah - 711113.

Certificate No. R012/040/12/21-22/006

Certificate Date 16.12.2021

Environmental Temp. 20° C $\pm$ 1° C

Calibration Method WI - 01/SEC - 08/001

Calibration Date 09.12.2021

Calibration Due On 08.12.2022

Relative Humidity 50% $\pm$ 10%**Details of Instruments**

Name Vernier Caliper

Model --

Make Mitutoyo

Sl. No. 60574503

Identification No. RPE/VC - 06

Range 0-300 mm

Location: --

Least Count 0.02 mm

Details of Equipment Used for Calibration

Instrument Name

Certificate No.

Cal Date

Calibrated By

Gauge Block

KCP/01/19-20/9183

17.03.2020

K C P (Calibration Lab)

Caliper Checker

KCP/05/19-20/9189

15.03.2020

K C P (Calibration Lab)

Discipline/Group:- Mechanical/Dimension.

Calibration Results**1. External Jaw**

Sl. No.	Size of Standard in mm	Observed Avg. Values in mm	Error in mm
1	1.00	1.000	0.000
2	10.00	10.000	0.000
3	21.10	21.100	0.000
4	31.02	31.024	-0.004
5	41.04	41.044	-0.004
6	51.50	51.504	-0.004
7	61.06	61.068	-0.008
8	71.08	71.088	-0.008
9	81.10	81.108	-0.008
10	91.50	91.508	-0.008
11	100.00	100.008	-0.008
12	200.00	200.012	-0.012
13	280.00	280.012	-0.012

2. Internal Jaw

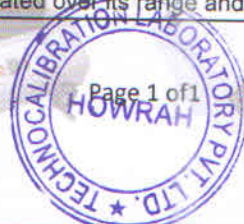
Sl. No.	Size of Standard in mm	Observed Avg. Values in mm	Error in mm
1	20.00	20.004	-0.004
2	100.00	100.008	-0.008
3	200.00	200.012	-0.012
4	280.00	280.012	-0.012

Uncertainty of measurement

at coverage factor K=2 which corresponds to a coverage probability of
approximately 95% for a normal distribution) $\pm$ 30.4 μ m

Remarks: The above Instrument has been calibrated over its range and the readings observed are tabulated above.

Checked by:



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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207521000011735F

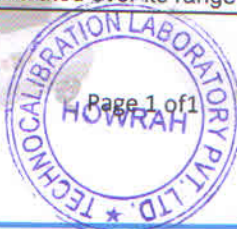
CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Customer's Details: M/s. R. P. Engineering (P) Ltd.			
Balitikuri, Chakpara, Howrah - 711113.			
Certificate No.	R012/040/12/21-22/005	Calibration Date	09.12.2021
Certificate Date	16.12.2021	Calibration Due On	08.12.2022
Environmental Temp.	20° C ±1° C	Relative Humidity	50% ±10%
Calibration Method	WI - 01/SEC - 08/001		
Details of Instruments			
Name	Vernier Caliper	Model	---
Make	Mitutoyo	Sl. No.	30010298
Identification No.	RPE/VC - 04	Range	0-200 mm
Location	---	Least Count	0.02 mm
Details of Equipment Used for Calibration			
Instrument Name	Certificate No.	Cal Date	Calibrated By
Gauge Block	KCP/01/19-20/9183	17.03.2020	K C P (Calibration Lab)
Caliper Checker	KCP/05/19-20/9189	15.03.2020	K C P (Calibration Lab)
Discipline/Group:- Mechanical/Dimension.			
Calibration Results			
1. External Jaw			
Sl. No.	Size of Standard in mm	Observed Avg. Values in mm	Error in mm
1	1.00	1.000	0.000
2	10.00	10.000	0.000
3	21.10	21.100	0.000
4	31.02	31.020	0.000
5	41.04	41.040	0.000
6	51.50	51.500	0.000
7	61.06	61.064	-0.004
8	71.08	71.084	-0.004
9	81.10	81.104	-0.004
10	91.50	91.508	-0.008
11	100.00	100.008	-0.008
12	180.00	180.008	-0.008
2. Internal Jaw			
Sl. No.	Size of Standard in mm	Observed Avg. Values in mm	Error in mm
1	20.00	20.000	0.000
2	100.00	100.004	-0.004
3	150.00	150.008	-0.008
Uncertainty of measurement			
at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)			
			± 30.4 μm
Remarks: The above Instrument has been calibrated over its range and the readings observed are tabulated			

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207521000011734F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.	
		Balitikuri, Chakpara, Howrah - 711113.	
Certificate No.	R012/040/12/21-22/004	Calibration Date	09.12.2021
Certificate Date	16.12.2021	Calibration Due On	08.12.2022
Environmental Temp.	20° C ±1° C	Relative Humidity	52% ±2%
Calibration Method	WI - 01/SEC - 08/024		
Details of Instruments			
Name	Steel Scale	Sl. No.	--
Make	Yaayo	Range	300 mm
Identification No.	RPE/SS - 03	Least Count	0.5, 1 mm
Details of Equipment Used for Calibration			
Instrument Name	Certificate No.	Cal Date	Calibrated By
Tape & Scale Calibrator	PI210909-21-1	09.09.2021	PIMS
Discipline/Group:- Mechanical/Dimension			
Calibration Results			
Scale			
Sl.No.	Size of Standard in mm	Observed Avg. Values in mm	Error in mm
1	50	49.97	-0.03
2	100	99.93	-0.07
3	150	149.87	-0.13
4	200	199.77	-0.23
5	250	249.65	-0.35
6	300	299.53	-0.47
Uncertainty of measurement			
(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)		±	348 $\sqrt{\frac{L}{1000}}$ μ m
Note: 'L' in millimeter.			

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CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207521000011733F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/7.8/TEC/01

Customer's Details: **M/s. R. P. Engineering (P) Ltd.**

Balitikuri, Chakpara, Howrah - 711113.

Certificate No. R012/040/12/21-22/003

Certificate Date 16.12.2021

Environmental Temp. 20° C ±1° C

Calibration Method WI - 01/SEC - 08/024

Calibration Date 09.12.2021

Calibration Due On 08.12.2022

Relative Humidity 52% ±2%

Details of Instruments

Name **Steel Scale**

Make **Kristeel**

Sl. No. --

Identification No. **RPE/SS - 02**

Range 1000 mm

Location --

Least Count 0.5 & 1 mm

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Cal Date	Calibrated By
Tape & Scale Calibrator	PI210909-21-1	09.09.2021	PIMS

Discipline/Group:- Mechanical-Dimension.

Calibration Results

Scale

Sl.No.	Size of Standard in mm	Observed Avg. Values in mm	Error in mm
1	100	99.93	-0.07
2	200	199.94	-0.06
3	400	399.90	-0.10
4	600	599.90	-0.10
5	800	799.79	-0.21
6	1000	999.78	-0.22

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

± 348 $\sqrt{\frac{L}{1000}} \mu m$

Note: 'L' in millimeter.

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR No.: CC207521000011732F

CALIBRATION CERTIFICATE

C.F.NO:TCLPL/7.8/TEC/01

Customer's Details:		M/s. R. P. Engineering (P) Ltd.					
		Balitikuri, Chakpara, Howrah - 711113.					
Certificate No:	R012/040/12/21-22/002		Details of Instrument				
Certificate date:	16.12.2021		Name:	Pressure Gauge			
Date of calibration:	09.12.2021		Make:	Fiebig			
Suggested Due Date:	08.12.2022		Model:	--			
Environmental Condition	Temperature in ° C:	23	Serial No.:	--			
			Range in Kg/cm ²	0 to 980			
	Rel. Humidity In %:	67	Resolution in Kg/cm ²	20			
			Identification No.:	RPE/PG - 01			
Calibration Method:	DKD-R-6-1		Location:	--			
Details of Standard used							
Name of the instrument			Certificate No.	Calibrated By	Valid upto		
1000 BAR Pressure Transducer with indicator			VIS/21-22/O-938	VIS	23.10.2022		
Discipline/Group:- Mechanical/Pressure							
Observation All readings are in kg/Cm ²							
Test Point	Test Reading	Standard Reading		Mean Value	Error	Hysteresis	Uncertainty In Bar(±)
		Avg. Ascending value	Avg. Descending value				
1	0	0.0	0.0	0.0	0.0	0.0	2.77
2	20	19.7	20.3	20.0	0.0	0.7	3.23
3	50	51.3	49.7	50.5	-0.5	-1.7	3.13
4	100	101.7	99.7	100.7	-0.7	-2.0	2.93
5	200	201.3	199.3	200.3	-0.3	-2.0	3.13
6	400	401.3	399.3	400.3	-0.3	-2.0	3.13
7	600	598.0	599.0	598.5	1.5	1.0	3.93
8	800	796.7	798.3	797.5	2.5	1.7	2.98
9	950	946.7	948.3	947.5	2.5	1.7	2.98
Remarks:		The above pressure gauge has been calibrated for its range in kg/cm ² in ascending and descending order. The calibration certificate shall not be reproduced in full without the written permission of Director.					
Note1:		Uncertainty of Instrument are Convert to bar from kg/cm ² as per IS : 786 – 1967. (1kg/cm ² = 0.980665 bar					
Note2:		At coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution.					

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CC-2075

TCLPL/5.10/TEC/20.

CALIBRATION CERTIFICATE

ULR No.: CC207521000011748F

Customer Details:	M/s. R. P. Engineering (P) Ltd.				
	Balitikuri, Chakpara, Howrah - 711113.				
Certificate No.	R012/040/12/21-22/011	Page no.	1	Total Pages	3
Certificate Date	16.12.2021	Details of Machine			
Calibration Date	09.12.2021	Name:	Rockwell Hardness Tester		
Calibration Due On	08.12.2022	Make:	Kristal Tech		
Environmental Condition:		SL/N:	1919/1074		
Temperature:	28° C ± 1° C	Model:	--		
Relative Humidity:	(50 ± 10)%	Range:	150 kgf (1471 N)		
Calibration Method :	IS: 1586: 2012.	Location:	--		
		I/D No :	RPE/RHT - 01		
Standard Equipment Used					
Hardness Test Block					
Sl.No.	Hardness Value	Certificate No	Calibration Due on	Calibrated by	Associated Uncertainty
R2339/2021	38.12 HRA	CC237421000100283F	10.07.2024	FMI	± 0.68 HRA
DT01/16- 1/1856	60.52 HRA	FMICL/RB/1220	31.07.2023	FMI	± 0.38 HRA
DT01/16- 1/1875	82.11 HRA	FMICL/RB/1221	31.07.2023	FMI	± 0.38 HRA
R2340/2021	13.98 HRBW	CC237421000100284F	10.07.2024	FMI	± 1.06 HRBW
R1212/2018	67.06 HRBW	FMICL/RB/1229	31.07.2023	FMI	± 0.68 HRBW
DT02/16- 1/1978	91.44 HRBW	FMICL/RB/1222	30.07.2023	FMI	± 0.68 HRBW
DT11/15-1/682	23.69 HRC	FMICL/RB/1223	31.07.2023	FMI	± 0.36 HRC
R1178/2018	49.17 HRC	FMICL/RB/1195	07.07.2023	FMI	± 0.36 HRC
DT3/15-9/8136	65.37 HRC	FMICL/RB/1225	31.07.2023	FMI	± 0.36 HRC


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CC-2075

TCLPL/5.10/TEC/20.

CALIBRATION CERTIFICATE

ULR No.: CC207521000011748F

Certificate No:	R012/040/12/21-22/011	Certificate Date:	16.12.2021
Calibration Date:	09.12.2021		
Calibration Due On:	08.12.2022	Page no. 2	Total Pages 3

Calibration was carried out at a temperature of = 28°C

Results

Standard Hardness of the Reference Standard Used	Indicated Reading (Hardness Value H)		Average $\bar{H}$	Deviation (q)	Penetration Depth Expressed in 'e'		Average $\bar{e}$	Repeatability	Reported Uncertainty at 95% confidence level
Scale: HRA									
38.12	H ₁	38.40	38.4	0.28	e ₁	61.6	61.60	0.40	0.70
	H ₂	38.40			e ₂	61.6			
	H ₃	38.20			e ₃	61.8			
	H ₄	38.60			e ₄	61.4			
	H ₅	38.40			e ₅	61.6			
60.51	H ₁	60.00	60.0	-0.47	e ₁	40.0	39.96	0.40	0.88
	H ₂	60.10			e ₂	39.9			
	H ₃	59.80			e ₃	40.2			
	H ₄	60.20			e ₄	39.8			
	H ₅	60.10			e ₅	39.9			
82.11	H ₁	81.80	81.6	-0.51	e ₁	18.2	18.40	0.80	1.03
	H ₂	81.70			e ₂	18.3			
	H ₃	81.80			e ₃	18.2			
	H ₄	81.00			e ₄	19.0			
	H ₅	81.70			e ₅	18.3			
Scale: HRBW									
13.98	H ₁	14.00	14.16	0.18	e ₁	116.0	115.84	0.40	0.94
	H ₂	14.00			e ₂	116.0			
	H ₃	14.40			e ₃	115.6			
	H ₄	14.20			e ₄	115.8			
	H ₅	14.20			e ₅	115.8			
67.06	H ₁	67.00	66.9	-0.20	e ₁	63.0	63.14	0.70	0.95
	H ₂	66.50			e ₂	63.5			
	H ₃	67.00			e ₃	63.0			
	H ₄	67.20			e ₄	62.8			
	H ₅	66.60			e ₅	63.4			
91.44	H ₁	91.40	91.54	0.10	e ₁	38.6	38.46	0.50	0.81
	H ₂	91.60			e ₂	38.4			
	H ₃	91.30			e ₃	38.7			
	H ₄	91.60				38.4			
	H ₅	91.80				38.2			

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



TCLPL/5.10/TEC/20.

CALIBRATION CERTIFICATE

ULR No.: GC207521000011742

Certificate No.	R012/040/12/21-22/011	Certificate Date	16.12.2021
Calibration Date	09.12.2021		
Calibration Due On	08.12.2022	Page no.	3
		Total Pages	3

Standard Hardness of the Reference Standard Used	Indicated Reading (Hardness Value H)	Average $\bar{H}$	Deviation (q)	Penetration Depth Expressed in 'e'	Average $\bar{e}$	Repeatability	Reported Uncertainty at 95% confidence level
--	--------------------------------------	-------------------	---------------	------------------------------------	-------------------	---------------	--

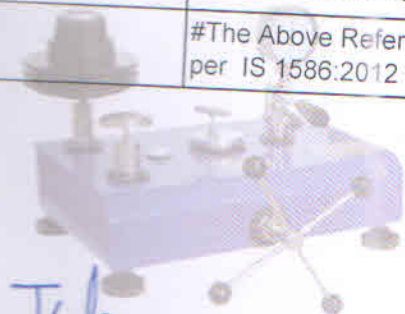
Scale: HRC

23.69	H ₁	23.20	23.28	-0.41	e ₁	76.8	76.72	0.20	0.78
	H ₂	23.30			e ₂	76.7			
	H ₃	23.20			e ₃	76.8			
	H ₄	23.40			e ₄	76.6			
	H ₅	23.30			e ₅	76.7			
49.17	H ₁	49.00	48.7	-0.49	e ₁	51.0	51.32	0.60	0.92
	H ₂	48.60			e ₂	51.4			
	H ₃	48.40			e ₃	51.6			
	H ₄	48.80			e ₄	51.2			
	H ₅	48.60			e ₅	51.4			
65.37	H ₁	65.20	65.14	-0.23	e ₁	34.8	34.86	1.10	0.79
	H ₂	64.50			e ₂	35.5			
	H ₃	65.60			e ₃	34.4			
	H ₄	65.40			e ₄	34.6			
	H ₅	65.00			e ₅	35.0			

Results:

The calibrated machine in indirect method in respect of permissible limit of error & repeatability. The maximum Expanded Uncertainty of measurement at 95% confidence level for HRA, HRB & HRC scales respectively 1.03, 1.00, 1.00 with coverage factor k = 2.

#The Above Reference Hardness Testing Machine Comply Repeatability Error & accuracy Error limit as per IS 1586:2012



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Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****Calibration Certificate**

Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikuri, Chakpara, Howrah – 711113.		
Certificate No.	R012/040/11/21-22/004	Calibration Date	09.11.2021
Certificate Date	10.11.2021	Calibration Due On	08.11.2022
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Model	Size	Identification No.
Thread Plug Gauge	--	--	--	10" NPT	RPEPL/TRG – 08 (10")

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI

Calibration Results**All Dimensions in mm**

	Specified	Tolerances	Results
Major Dia	273.050	$\pm$ 0.025	273.044
Pitch Dia	269.772	$\pm$ 0.010	269.76
Minor Dia	Cleared	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

 $\pm$ 20 μ m**Remarks:**

The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.

Calibrated By

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TECHNICAL MANAGER****Mobile : 9831121015****e-mail : technocalibration@gmail.com & technocalibration@rediffmail.com, Website : www.technocalibrationlaboratory.co.in**

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Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikuri, Chakpara, Howrah - 711113.		
Certificate No.	R012/040/11/21-22/003	Calibration Date	09.11.2021
Certificate Date	10.11.2021	Calibration Due On	08.11.2022
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Model	Size	Identification No.
Thread Ring Gauge	Truthread	--	--	3" NPT	RPEPL/TRG - 07 (3

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI

Calibration Results**All Dimensions in mm**

	Specified	Tolerances	Results
Minor Dia	83.953	$\pm$ 0.025	83.950
Pitch Dia	86.068	$\pm$ 0.008	86.066
Major Dia	88.182	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

Remarks:

The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.

Calibrated By

CALIBRATION ENGINEER

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**SOUVIK MAITY
TECHNICAL MANAGER**

Mobile : 9831121015

e-mail : technocalibration@gmail.com & technocalibration@rediffmail.com, Website : www.technocalibrationlaboratory.com

**TECHNOCALIBRATION LABORATORY PVT. LTD.****BALITIKURI, CHAKPARA, HOWRAH 711 113.**Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****Calibration Certificate**

Customer's Details:	M/s. R. P. Engineering (P) Ltd.			
	Balitikuri, Chakpara, Howrah – 711113.			
Certificate No.	R012/040/11/21-22/001	Calibration Date	09.11.2021	
Certificate Date	10.11.2021	Calibration Due On	08.11.2022	
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%	
Calibration Method	IS: 8999 – 2003, IS: 554 – 1985 / ISO 228.7/1 – 1982	Total No. of Page	1 of 1	
<u>Details of Instruments</u>				
Name	Make	Sl. No.	Size	Identification No.
Thread Ring Gauge	--	--	2" NPT	RPEL/TRG – 05
<u>Details of Equipment Used for Calibration</u>				
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI
<u>Calibration Results</u>				
<u>All Dimensions in mm</u>				
Parameter	Specified	Tolerances	Results	
Minor Dia	56.854	$\pm$ 0.025	56.850	
Pitch Dia	58.325	$\pm$ 0.008	58.321	
Major Dia	59.796	$\pm$ 0.025	Cleared	
Uncertainty of measurement (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)				$\pm$ 20 μ m
Remarks:	The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.			

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Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****Calibration Certificate**

Customer's Details:	M/s. R. P. Engineering (P) Ltd.				
	Balitikuri, Chakpara, Howrah – 711113.				
Certificate No.	R012/040/11/21-22/002	Calibration Date	09.11.2021		
Certificate Date	10.11.2021	Calibration Due On	08.11.2022		
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%		
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1		
<u>Details of Instruments</u>					
Name	Make	Sl. No.	Model	Size	Identification No.
Thread Ring Gauge	Truthread	--	--	1" NPT	RPEPL/TRG – 06 (1")
<u>Details of Equipment Used for Calibration</u>					
Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By	
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI	
<u>Calibration Results</u>					
<u>All Dimensions in mm</u>					
	Specified	Tolerances		Results	
Minor Dia	29.990	$\pm$ 0.025		29.986	
Pitch Dia	31.461	$\pm$ 0.008		31.461	
Major Dia	32.932	--		Cleared	
Uncertainty of measurement (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)				$\pm$ 20 μ m	
Remarks:	The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.				

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Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****Calibration Certificate**

Customer's Details:	M/s. R.P. Engineering (P) Ltd.		
	Balitikuri, Chakpara, Howrah - 711 113.		
Certificate No.	R012/081/09/21-22/003	Calibration Date	17.09.2021
Certificate Date	21.09.2021	Calibration Due On	16.09.2022
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 – 2003, IS: 554 – 1985 / ISO 228.7/1 – 1982	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Size	Identification No.
Thread Ring Gauge	--	--	4"API	RPEPL/TRG-02

Details of Equipment Used for Calibration

Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI
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Calibration Results**All Dimensions in mm**

	Specified	Tolerances (μ)	Results
Major Dia	113.030	--	Cleared
Pitch Dia	111.538	$\pm$ 13	111.540
Minor Dia	110.426	$\pm$ 13	110.427

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

 $\pm 20\mu\text{m}$ **Remarks:**

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Customer's Details:	M/s. R.P. Engineering (P) Ltd.		
	Balitikuri, Chakpara, Howrah - 711 113.		
Certificate No.	R012/081/09/21-22/002	Calibration Date	17.09.2021
Certificate Date	21.09.2021	Calibration Due On	16.09.2022
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 – 2003, IS: 554 – 1985 / ISO 228.7/1 – 1982	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Size	Identification No.
Thread Ring Gauge	--	--	2"API	RPEPL/TRG-01

Details of Equipment Used for Calibration

Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI
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Calibration Results**All Dimensions in mm**

	Specified	Tolerances (μ)	Results
Major Dia	59.614	--	Cleared
Pitch Dia	58.126	$\pm$ 10	58.127
Minor Dia	57.007	$\pm$ 10	57.011

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

 $\pm 20\mu\text{m}$ **Remarks:**

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Customer's Details:	M/s. R.P. Engineering (P) Ltd.			
	Balitikuri, Chakpara, Howrah - 711 113.			
Certificate No.	R012/081/09/21-22/001	Calibration Date	17.09.2021	
Certificate Date	21.09.2021	Calibration Due On	16.09.2022	
Environmental Temp.	26° C ±2° C	Relative Humidity	50% ±10%	
Calibration Method	IS: 8999 – 2003, IS: 554 – 1985 / ISO 228.7/1 – 1982		Total No. of Page	1 of 1
<u>Details of Instruments</u>				
Name	Make	Sl. No.	Size	Identification No.
Thread Plug Gauge	---	---	4"API	RPEPL/TPG-01
<u>Details of Equipment Used for Calibration</u>				
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI
<u>Calibration Results</u>				
All Dimensions in mm				
	Specified	Tolerances (μ)		Results
Major Dia	113.030	± 13		113.033
Pitch Dia	111.538	± 13		111.540
Minor Dia	110.638	± 34		110.640
Uncertainty of measurement (at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)				±20μm
Remarks:	The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.			


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Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

NABL ACCREDITED CALIBRATION LABORATORY



ULR.NO. CC207520000006557F

CALIBRATION CERTIFICATE

C.F.NO.:TCLPL/5.10/TEC/20

Customer's Details: **M/s. R. P. Engineering (P) Ltd.**

Balitikuri, Chakpara, Howrah - 711 113.

Certificate No.	R012/009/09/21-22/001	Calibration Date	02.09.2021
Certificate Date	03.09.2021	Calibration Due On	01.09.2022
Environmental Temp.	20° C $\pm$ 1° C	Relative Humidity	43% $\pm$ 2%
Calibration Method	WI - 01/SEC - 08/004		

Details of Instruments

Name	Vernier Height Gauge	Sl. No.	
Make	Accurate	Range	0-600 mm
Identification No.	RPE/VHG-01	Least Count	0.02 mm
		Location	

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Cal Date	Calibrated By	Due Date
Caliper Checkere	KCP/05/19-20/9186	13.03.2020	KCP	13.03.2022

Discipline/Group- Mechanical/Dimension.

Calibration Results

Sl.No.	Size of Standard in mm	Observed Avg. Values in mm	Error in μ m
1	0.00	0.000	0.0
2	25.00	25.000	0.0
3	51.02	51.020	0.0
4	51.08	51.080	0.0
5	76.04	76.040	0.0
6	91.60	91.600	0.0
7	100.00	100.000	0.0
8	151.10	151.100	0.0
9	201.50	201.496	-4.0
10	202.50	202.496	-4.0
11	250.00	249.996	-4.0
12	301.10	301.096	-4.0
13	351.10	351.096	-4.0
14	400.00	399.996	-4.0
15	451.10	451.096	-4.0
16	501.50	501.492	-8.0
17	550.00	549.992	-8.0

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

$\pm$ 19.96 μ m

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Temperature Instruments & all Type of Measuring Instruments.**Customer Service Cell No. : 0332653 0204, 7059626385****CIN No. U73100WB2014PTC200542****Calibration Certificate**

Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikure Chakpara, Howrah - 711113.		
Certificate No.	R012/110/08/21-22/006	Calibration Date	21.08.2021
Certificate Date	23.08.2021	Calibration Due On	20.08.2022
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Model	Size	Identification No.
Thread Ring Gauge	--	IH-4964	--	1/2" - 14 API	RPEPL/TRG - 04 (1/2")

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI

Calibration Results

<u>All Dimensions in mm</u>			
	Specified	Tolerances	Results
Minor Dia	18.564	$\pm$ 0.025	18.560
Pitch Dia	19.772	$\pm$ 0.008	19.771
Major Dia	Cleared	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

 $\pm$ 20 μ m

Remarks:	The above Instrument has been calibrated over its range and the readings observed are tabulated above in respected its accuracy.
----------	--

Calibrated By

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TECHNOCALIBRATION LABORATORY PVT. LTD.

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Servicing, Repairing & Calibration of Testing Machines, Lab Equipments,
Temperature Instruments & all Type of Measuring Instruments.

Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

Calibration Certificate

Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikure Chakpara, Howrah - 711113.		
Certificate No.	R012/110/08/21-22/005	Calibration Date	21.08.2021
Certificate Date	23.08.2021	Calibration Due On	20.08.2022
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Model	Size	Identification No.
Thread Ring Gauge	--	--	--	3/4" LP	RPEPL/TRG - 03 (3/4")

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI

Calibration Results

All Dimensions in mm

	Specified	Tolerances	Results
Minor Dia	23.909	$\pm$ 0.025	23.906
Pitch Dia	25.117	$\pm$ 0.008	25.114
Major Dia	Cleared	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

$\pm$ 20 μ m

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Calibrated By

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Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikure Chakpara, Howrah - 711113.		
Certificate No.	R012/110/08/21-22/004	Calibration Date	21.08.2021
Certificate Date	23.08.2021	Calibration Due On	20.08.2022
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Model	Size	Identification No.
Thread Ring Gauge	Truthread	TC-984	--	1" LP	RPEPL/TRG - 02 (1")

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI

Calibration Results**All Dimensions in mm**

	Specified	Tolerances	Results
Minor Dia	29.990	$\pm$ 0.025	29.984
Pitch Dia	31.461	$\pm$ 0.008	31.460
Major Dia	Cleared	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

 $\pm$ 20 μ m**Remarks:**

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Calibrated By

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Customer Service Cell No. : 0332653 0204, 7059626385

CIN No. U73100WB2014PTC200542

Calibration Certificate

Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikure Chakpara, Howrah - 711113.		
Certificate No.	R012/110/08/21-22/003	Calibration Date	21.08.2021
Certificate Date	23.08.2021	Calibration Due On	20.08.2022
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Model	Size	Identification No.
Thread Ring Gauge	Truthread	IH-397	--	3" X 8 LP - 5B	RPEPL/TRG - 01 (3")

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI

Calibration Results

All Dimensions in mm

	Specified	Tolerances	Results
Minor Dia	83.953	$\pm$ 0.041	83.950
Pitch Dia	86.068	$\pm$ 0.013	86.064
Major Dia	Cleared	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

$\pm$ 20 μ m

Remarks:

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Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikure Chakpara, Howrah - 711113.		
Certificate No.	R012/110/08/21-22/002	Calibration Date	21.08.2021
Certificate Date	23.08.2021	Calibration Due On	20.08.2022
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Model	Size	Identification No.
Thread Plug Gauge	Memco	61433-95	--	3" LP	RPEPL/TPG - 04 (3")

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI

Calibration Results**All Dimensions in mm**

	Specified	Tolerances	Results
Major Dia	88.182	$\pm$ 0.041	88.180
Pitch Dia	86.068	$\pm$ 0.013	86.064
Minor Dia	Cleared	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

 $\pm$ 20 μ m**Remarks:**

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Calibration Certificate

Customer's Details:	M/s. R. P. Engineering (P) Ltd.		
	Balitikure Chakpara, Howrah - 711113.		
Certificate No.	R012/110/08/21-22/001	Calibration Date	21.08.2021
Certificate Date	23.08.2021	Calibration Due On	20.08.2022
Environmental Temp.	26° C $\pm$ 2° C	Relative Humidity	50% $\pm$ 10%
Calibration Method	IS: 8999 - 2003, IS: 554 - 1985/ISO 7-2 - 2000	Total No. of Page	1 of 1

Details of Instruments

Name	Make	Sl. No.	Model	Size	Identification No.
Thread Plug Gauge	Truthread	--	--	2" API-5B	RPEPL/TPG - 03 (2")

Details of Equipment Used for Calibration

Instrument Name	Certificate No.	Calibration Date	Calibration Due On	Calibrated By
Profile Projector	CC200520000003562F	17.06.2020	16.06.2022	WOI

Calibration Results

All Dimensions in mm

	Specified	Tolerances	Results
Major Dia	59.796	$\pm$ 0.025	59.793
Pitch Dia	58.325	$\pm$ 0.008	58.522
Minor Dia	Cleared	--	Cleared

Uncertainty of measurement

(at coverage factor K=2 which corresponds to a coverage probability of approximate 95% for a normal distribution)

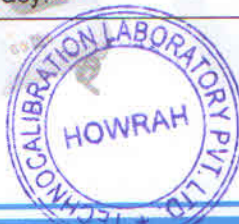
$\pm$ 20 μ m

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