

Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/001
ULR No. : CC222126000028418F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Steel Tape
Identification : BIPL/ST - 01
Range : 0 - 5000 mm
Least Count : 1 mm
Make : Freemans



Service Request No. / Order Reference : 260409/B1167/001 - 018

Receipt of Instrument : 09.04.2026

Location where calibration performed : At permanent laboratory

CC-2221

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Direct method with reference to YEA/WI/M-20 & based on IS : 1269 (Part - 2): 1997(Reaffirmed year 2024)

Environmental Condition during Calibration : *Temp.* : 20±2°C *RH* : 50±10%

Equipment used for Calibration : Standard Scale & Tape Calibrator

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/250910/Y001/001 valid till 09.09.2026

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and the results are given in the page 2 to 2 ...of the certificate.

Conf. 1.2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260409/B1167/001
 ULR No. : CC222126000028418F
 Calibrated By : H. Samanta

Dated : 18.04.2026
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Calibration Results

Mechanical Calibration

Calibration Results of Steel Tape :

Sl. No.	Parameter	DUC Value (mm)	Observed Standard Value (mm)
1	Outer edge of ring / latch to first graduation line in push condition	.....	1.339
2	Inner edge of ring / latch to first graduation line in pull condition	.....	1.325
3	End face to first graduation line	.....	0.998
4	Any two adjacent millimeter graduation lines	1	1.002
5	Any two adjacent centimeter graduation lines	10	10.013
6	Any two adjacent decimeter graduation lines	100	100.089
7	Any two adjacent meter graduation lines	1000	1000.136
8	End face to Any graduation line	2000	2000.210
		3000	3000.345
		4000	4000.467
9	End face to maximum graduation line	5000	5000.578

Measurement Uncertainty : ($\pm$) 280 μ m

DUC : Device Under Calibration

REMARKS : The above Steel Tape has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By


 A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/002
ULR No. : CC222126000028419F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Steel Tape
Identification : BIPL/ST - 02
Range : 0 - 15000 mm
Least Count : 1 mm
Make : Freemans

Service Request No. / Order Reference

: 260409/B1167/001 - 018

Receipt of Instrument

: 09.04.2026

Location where calibration performed

: At permanent laboratory

Applicable Specification of Instrument to be Calibrated

: Not Specified

Condition of Instrument to be Calibrated

: Satisfactory

Basis of Calibration

: Direct method with reference to YEA/WI/M-20 &
based on IS : 1269 (Part – 2): 1997(Reaffirmed year 2024)

Environmental Condition during Calibration

: *Temp.* : 20±2°C *RH* : 50±10%

Equipment used for Calibration

: Standard Scale & Tape Calibrator

Traceability

: To the International System of Units (SI) through national
metrology institute or ISO/IEC 17025:2017 accredited
calibration laboratory vide calibration certificate no:
YEA(C)/250910/Y001/001 valid till 09.09.2026

Measurement Uncertainty

: The figures are stated in the result at coverage factor
 $k = 2$ corresponding to confidence probability of
95% for normal distribution.

Laboratory Identification

: Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and
the results are given in the page 2 to 2 ...of the certificate.

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YEA(C)/F-08



Certificate No.: YEA(C)/ 260409/B1167/002
 ULR No. : CC222126000028419F
 Calibrated By : S. Debnath

Dated : 18.04.2026
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Calibration Results

Mechanical Calibration

Calibration Results of Steel Tape :

Sl. No.	Parameter	DUC Value (mm)	Observed Standard Value (mm)
1	Outer edge of ring / latch to first graduation line in push condition	.....	34.435
2	Inner edge of ring / latch to first graduation line in pull condition	.....	33.367
3	End face to first graduation line	.....	.....
4	Any two adjacent millimeter graduation lines	1	1.003
5	Any two adjacent centimeter graduation lines	10	10.019
6	Any two adjacent decimeter graduation lines	100	100.104
7	Any two adjacent meter graduation lines	1000	1000.234
8	End face to Any graduation line	3000	2000.387
		5000	5000.468
		10000	10000.577
9	End face to maximum graduation line	15000	15000.745

Measurement Uncertainty : ($\pm$) 675 μ m

DUC : Device Under Calibration

REMARKS : The above Steel Tape has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das
 Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/003
ULR No.: CC222126000028420F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Steel Tape
Identification : BIPL/ST - 03
Range : 0 - 50000 mm
Least Count : 1 mm
Make : Freemans

Service Request No. / Order Reference

: 260409/B1167/001 - 018

Receipt of Instrument

: 09.04.2026

Location where calibration performed

: At permanent laboratory

Applicable Specification of Instrument to be Calibrated

: Not Specified

Condition of Instrument to be Calibrated

: Satisfactory

Basis of Calibration

: Comparison method with reference to YEA/WI/M-20
based on IS: 1269 (Part 2) : 1997 (Reaffirmed Year : May 2020)

Environmental Condition during Calibration

: *Temp.* : 20±2°C *RH* : 50±10%

Equipment used for Calibration

: Standard Scale & Tape Calibrator

Traceability

: To the International System of Units (SI) through national
metrology institute or ISO/IEC 17025:2017 accredited
calibration laboratory vide calibration certificate no:
YEA(C)/250910/Y001/001 valid till 09.09.2026

Measurement Uncertainty

: The figures are stated in the result at coverage factor
 $k = 2$ corresponding to confidence probability of
95% for normal distribution.

Laboratory Identification

: Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and
the results are given in the page 2 to 2 ...of the certificate.

Cont.....2

YEA(C)/F-08

Certificate No.: YEA(C)/ 260409/B1167/003
 ULR No.: CC222126000028420F
 Calibrated By : H. Samanta

Dated : 18.04.2026
 Page 2 of 2 Pages

Calibration Results

Mechanical Calibration

Calibration Results of Steel Tape :

Sl. No.	Parameter	DUC Value (mm)	Observed Standard Value (mm)
1	Outer edge of ring / latch to first graduation line in push condition	.....	92.248
2	Inner edge of ring / latch to first graduation line in pull condition	.....	91.774
3	End face to first graduation line	.....	.....
4	Any two adjacent millimeter graduation lines	1	1.013
5	Any two adjacent centimeter graduation lines	10	10.035
6	Any two adjacent decimeter graduation lines	100	100.105
7	Any two adjacent meter graduation lines	1000	1000.336
8	End face to Any graduation line	10000	10000.648
		20000	20000.959
		35000	35001.267
9	End face to maximum graduation line	50000	50001.438

Measurement Uncertainty : ($\pm$) 3135 μ m

DUC : Device Under Calibration

REMARKS : The above Steel Tape has been calibrated over its range and the readings are tabulated above.
 Calibration measurements as found and as left conditions are the same, no adjustment has been made.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das
 Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/004
ULR No.: CC222126000028421F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Steel Scale
Identification : BIPL/SS - 01
Range : 0 - 1000 mm
Least Count : 1 mm
Make : Elora



CC-2221

Service Request No. / Order Reference : 260409/B1167/001 - 018

Receipt of Instrument : 09.04.2026

Location where calibration performed : At permanent laboratory

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Direct method with reference to YEA/WI/M-19 & based on IS : 1481 : 2024

Environmental Condition during Calibration : Temp. : 20±2°C RH : 50±10%

Equipment used for Calibration : Standard Scale & Tape Calibrator

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/250910/Y001/001 valid till 09.09.2026

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and the results are given in the page 2 to 2 ...of the certificate.

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YEA(C)/F-08



Certificate No.: YEA(C)/ 260409/B1167/004
 ULR No.: CC222126000028421F
 Calibrated By : H. Samanta

Dated : 18.04.2026
 Page 2 of 2 Pages

Calibration Results

Mechanical Calibration

Calibration Results of Steel Scale :

Sl. No.	Parameter	DUC Value (mm)	Observed Standard Value (mm)
1	End face to first graduation line	1	0.997
2	Any two adjacent millimeter graduation lines	1	1.007
3	Any two adjacent centimeter graduation lines	10	10.023
4	End face to any centimeter graduation lines	50	50.059
5	Any two adjacent decimeter graduation lines	100	100.142
6	End face to any decimeter graduation line	200	200.224
7		500	500.442
8	Any two adjacent meter graduation lines / End face to maximum graduation line	1000	1000.578

Measurement Uncertainty : ($\pm$) 232 μ m

DUC : Device Under Calibration

REMARKS : The above Steel Scale has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
 This calibration certificate is valid for scientific and industrial purpose only.
 The results are provided as observed without any adjustment.

Authorised By



A. Das
 Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/005
ULR No.: CC222126000028422F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Taper Scale
Identification : BIPL/TS - 01
Range : 1 - 15 mm
Resolution : 0.1 mm
Make : Kristeel Shinwa
Model : 1511A

Service Request No. / Order Reference

: 260409/B1167/001 - 018

Receipt of Instrument

: 09.04.2026

Location where calibration performed

: At permanent laboratory

Applicable Specification of Instrument to be Calibrated

: Not Specified

Condition of Instrument to be Calibrated

: Satisfactory

Basis of Calibration

: Comparison method with reference to YEA/WI/M-94

Environmental Condition during Calibration

: *Temp.* : 20±2°C *RH* : 50±10%

Equipment used for Calibration

: Standard Profile Projector

Traceability

: To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/241021/Y001/001 valid till 20.10.2026

Measurement Uncertainty

: The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification

: Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and the results are given in the page 2 to 2 ...of the Certificate.

Contd...2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260409/B1167/005

ULR No.: CC222126000028422F

Calibrated By : S. Debnath

Date: 18.04.2026

Page 2 of 2 Pages

Calibration Results

Mechanical Calibration

Calibration Results of Taper Scale :

Sl. No.	DUC Value	Observed Value	Measurement Uncertainty
	(mm)	(mm)	($\pm$ micron)
1	1.0	1.001	30
2	3.0	3.003	
3	6.0	6.004	
4	9.0	9.003	
5	12.0	12.005	
6	15.0	15.007	

DUC : Device Under Calibration

REMARKS : The above Taper Scale has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/006
ULR No.: CC222126000028423F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

<i>Name</i>	: Dial Indicator of Surface Profile Gauge
<i>Identification</i>	: BIPL / SPG - 01
<i>Range</i>	: (-) 0.4 to 0.4 mm
<i>Least Count</i>	: 0.001 mm
<i>Make</i>	: Kann (Sl. No. : J8245)
<i>Type</i>	: Plunger

Service Request No. / Order Reference

: 260409/B1167/001 - 018

Receipt of Instrument

: 09.04.2026

Location where calibration performed

: At permanent laboratory

Applicable Specification of Instrument to be Calibrated

: Not Specified

Condition of Instrument to be Calibrated

: Satisfactory

Basis of Calibration

: Comparison method with reference to YEA/WI/M-10

Environmental Condition during Calibration

: *Temp.* : 20±2°C *RH* : 50±10%

Equipment used for Calibration

: Standard Universal Length Measuring Machine

Traceability

: To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/250722/Y001/002 valid till 21.07.2027

Measurement Uncertainty

: The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification

: Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated up to its range.

The results are given in the page 2 to 2 ...of the certificate.

Cont. 2

YEA(C)/F-08

Certificate No.: YEA(C)/ 260409/B1167/006
 ULR No.: CC222126000028423F
 Calibrated By : S. Debnath

Date: 18.04.2026
 Page 2 of 2 Pages

Calibration Results

Mechanical Calibration

A) Calibration Results of the Dial Indicator of Surface Profile Gauge :

Sl. No.	DUC Value	Standard Value	Measurement Uncertainty
	(mm)	(mm)	(± micron)
1	-0.400	-0.3997	1.3
2	-0.300	-0.2994	
3	-0.200	-0.1995	
4	-0.100	-0.0994	
5	-0.050	-0.0503	
6	0.050	0.0506	
7	0.100	0.1004	
8	0.200	0.2005	
9	0.300	0.3007	
10	0.400	0.4009	

DUC : Device Under Calibration

REMARKS : The above Dial Indicator of Surface Profile Gauge has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
 This calibration certificate is valid for scientific and industrial purpose only.
 The results are provided as observed without any adjustment.

Authorised By


 A. Das
 Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/007
ULR No.: CC222126000028424F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	3

Description of Instrument

Name : Digimatic Caliper
Identification : BIPL / DC - 01
Range : 0 - 200 mm
Least Count : 0.01 mm
Make : Mitutoyo (Sl. No.: B22415444)

Service Request No. / Order Reference

: 260409/B1167/001 - 018

Receipt of Instrument

: 09.04.2026

Location where calibration performed

: At permanent laboratory

Applicable Specification of Instrument to be Calibrated

: Not Specified

Condition of Instrument to be Calibrated

: Satisfactory

Basis of Calibration

: Direct method with reference to YEA/WI/M-07 & based on
IS 16491(Part 1):2024 / ISO 13385-1:2019

Environmental Condition during Calibration

: Temp. : 20±2°C RH : 50±10%

Equipment used for Calibration

: Standard Slip Gauge Set, Standard Long Slip Gauge Set,
Standard Ring Gauge, Standard Cylindrical Pin,
Standard External Micrometer & Slip Gauge Accessories.

Traceability

: To the International System of Units (SI) through national
metrology institute or ISO/IEC 17025:2017 accredited
calibration laboratory vide calibration certificate no:
CC389924000002513F valid till 16.12.2026
24 / 53 / 01 / 041 - S / 3 / 041 - A dated 14.06.2024
YEA(C)/250417/Y001/002 valid till 16.04.2026
YEA(C)/250417/Y001/003 valid till 16.04.2026 &
YEA (C)/251201/Y001/001 valid till 30.11.2026

Measurement Uncertainty

: The figures are stated in the result at coverage factor
 $k = 2$ corresponding to confidence probability of
95% for normal distribution.

Laboratory Identification

: Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and
the results are given in the page 2 to 3 ...of the certificate.

Cont.....2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260409/B1167/007
 ULR No.: CC222126000028424F
 Calibrated By : H. Samanta

Date: 18.04.2026
 Page 2 of 3 Pages

Calibration Results

Mechanical Calibration

Calibration Results of Digimatic Caliper

A. Measurement of Partial surface contact error (E)

Standard Slip Gauge Used (mm)	Position	Observed DUC Value (mm)	Partial surface contact error (μm)	Max Value (μm)
10	Tip	9.99	10	10
	Middle	10.00	0	
	Bottom	10.00	0	

At Maximum Value

1) Scale Reading : (Using middle of chiselled portion of the external measuring face)

Sl. No.	Standard Value (mm)	Observed DUC Value (mm)	Measurement Uncertainty ($\pm \mu\text{m}$)
1	"0" Set	0.00	8
2	10.500	10.50	
3	25.240	25.24	
4	50.000	50.00	
5	75.000	75.00	
6	100.000	100.00	
7	120.000	120.00	
8	150.000	150.00	
9	200.000	200.00	

2) Scale Reading : (Using middle of chiselled portion of the internal measuring face)

Sl. No.	Standard Value (mm)	Observed DUC Value (mm)	Measurement Uncertainty ($\pm \mu\text{m}$)
1	10.500	10.50	8

3) Scale Reading : (Using depth measuring portion)

Sl. No.	Standard Value (mm)	Observed DUC Value (mm)	Measurement Uncertainty ($\pm \mu\text{m}$)
1	10.000	10.00	8

B. Measurement of Repeatability of Partial surface contact error (R)

At Maximum Value	10 μm
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C. Measurement of Scale shift error (S)

Slip Gauge Used (mm)	Position	Observed Standard Value (mm)	Scale shift error (μm)
10	External Jaw	9.99	10
Ring Gauge Used (mm)	Position	Observed Standard Value (mm)	
10	Internal Jaw	10.00	

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Certificate No.: YEA(C)/ 260409/B1167/007
 ULR No.: CC222126000028424F
 Calibrated By : H. Samanta

Date: 18.04.2026
 Page 3 of 3 Pages

D. Measurement of Partial Line contact error (L)

Value of Cylindrical Pin (mm)	Position	Observed DUC Value (mm)	Partial surface contact error (μm)	Max Value (μm)
10	Tip	9.99	10	10
	Middle	10.00	0	
	Bottom	10.00	0	

E. Measurement of Full Surface Contact error (J)

Slip Gauge Used (mm)	Position	Observed DUC Value (mm)	Full Surface contact error (μm)	Max Value (μm)
10	Covering the whole measuring surface of the External jaws	10.00	0	0
		10.00	0	
		10.00	0	

F. Measurement of Error due to crossed Knife-edge distance (Crossed Knife edged only) (K)

Ring Gauge Used (mm)	Position	Observed DUC Value (mm)	Error due to crossed Knife-edge distance (μm)
*****	Internal Jaw	*****	*****

Summary of Results for Metrological Characteristics

Sl. No.	Metrological Characteristics	Error (μm)
1	Partial surface contact error (E)	10
2	Repeatability of Partial surface contact error (R)	10
3	Scale Shift Error (S)	10
4	Line Contact Error (L)	10
5	Full Surface Contact Error (J)	0
6	Error due to crossed Knife-edge distance (K)	*****

DUC : Device Under Calibration

REMARKS : The above Digimatic Caliper has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/008
ULR No.: CC222126000028425F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	3

Description of Instrument

Name : Vernier Caliper
Identification : BIPL / VC - 01
Range : 0 - 300 mm
Least Count : 0.02 mm
Make : Mitutoyo (Sl. No. : Sl. No.: 19283381)

Service Request No. / Order Reference

: 260409/B1167/001 - 018

Receipt of Instrument

: 09.04.2026

Location where calibration performed

: At permanent laboratory

Applicable Specification of Instrument to be Calibrated

: Not Specified

Condition of Instrument to be Calibrated

: Satisfactory

Basis of Calibration

: Direct method with reference to YEA/WI/M-07 & based on
IS 16491(Part 1):2024 / ISO 13385-1:2019

Environmental Condition during Calibration

: **Temp.** : 20±2°C **RH** : 50±10%

Equipment used for Calibration

: Standard Slip Gauge Set, Standard Long Slip Gauge Set,
Standard Ring Gauge, Standard Cylindrical Pin,
Standard External Micrometer & Slip Gauge Accessories.

Traceability

: To the International System of Units (SI) through national
metrology institute or ISO/IEC 17025:2017 accredited
calibration laboratory vide calibration certificate no:
CC389924000002513F valid till 16.12.2026
24 / 53 / 01 / 041 - S / 3 / 041 - A dated 14.06.2024
YEA(C)/250417/Y001/002 valid till 16.04.2026
YEA(C)/250417/Y001/003 valid till 16.04.2026 &
YEA (C)/251201/Y001/001 valid till 30.11.2026

Measurement Uncertainty

: The figures are stated in the result at coverage factor
 $k = 2$ corresponding to confidence probability of
95% for normal distribution.

Laboratory Identification

: Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and
the results are given in the page 2 to 3 ...of the certificate.

Cont.  2

YEA(C)/F-08

Certificate No.: YEA(C)/ 260409/B1167/008

ULR No.: CC222126000028425F

Calibrated By : H. Samanta

Date: 18.04.2026

Page 2 of 3 Pages

Calibration Results

Mechanical Calibration

Calibration Results of Vernier Caliper

A. Measurement of Partial surface contact error (E)

Standard Slip Gauge Used (mm)	Position	Observed DUC Value (mm)	Partial surface contact error (μm)	Max Value (μm)
10	Tip	9.98	20	20
	Middle	10.00	0	
	Bottom	10.00	0	

1) Scale Reading : (Using middle of chiselled portion of the external measuring face)

Sl. No.	Standard Value (mm)	Observed DUC Value (mm)	Measurement Uncertainty (± μm)
1	"0" Set	0.00	14
2	10.500	10.50	
3	25.240	25.24	
4	50.000	50.00	
5	100.000	100.00	
6	150.000	150.00	
7	200.000	200.00	
8	250.000	250.00	
9	280.000	280.00	

2) Scale Reading : (Using middle of chiselled portion of the internal measuring face)

Sl. No.	Standard Value (mm)	Observed DUC Value (mm)	Measurement Uncertainty (± μm)
1	10.500	10.50	14

3) Scale Reading : (Using depth measuring portion)

Sl. No.	Standard Value (mm)	Observed DUC Value (mm)	Measurement Uncertainty (± μm)
1	10.000	10.00	14

B. Measurement of Repeatability of Partial surface contact error (R)

At Maximum Value	20 μm
------------------	-------

C. Measurement of Scale shift error (S)

Slip Gauge Used (mm)	Position	Observed Standard Value (mm)	Scale shift error (μm)
10	External Jaw	10.00	0
Ring Gauge Used (mm)	Position	Observed Standard Value (mm)	
10	Internal Jaw	10.00	

Cont... 3

Certificate No.: YEA(C)/ 260409/B1167/008
 ULR No.: CC222126000028425F
 Calibrated By : H. Samanta

Date: 18.04.2026
 Page 3 of 3 Pages

D. Measurement of Partial Line contact error (L)

Value of Cylindrical Pin (mm)	Position	Observed DUC Value (mm)	Partial surface contact error (μm)	Max Value (μm)
10	Tip	10.00	0	0
	Middle	10.00	0	
	Bottom	10.00	0	

E. Measurement of Full Surface Contact error (J)

Slip Gauge Used (mm)	Position	Observed DUC Value (mm)	Full Surface contact error (μm)	Max Value (μm)
10	Covering the whole measuring surface of the External jaws	9.98	20	20
		10.00	0	
		10.00	0	

F. Measurement of Error due to crossed Knife-edge distance (Crossed Knife edged only) (K)

Ring Gauge Used (mm)	Position	Observed DUC Value (mm)	Error due to crossed Knife-edge distance (μm)
*****	Internal Jaw	*****	*****

Summary of Results for Metrological Characteristics

Sl. No.	Metrological Characteristics	Error (μm)
1	Partial surface contact error (E)	20
2	Repeatability of Partial surface contact error (R)	20
3	Scale Shift Error (S)	0
4	Line Contact Error (L)	0
5	Full Surface Contact Error (J)	20
6	Error due to crossed Knife-edge distance (K)	*****

DUC : Device Under Calibration

REMARKS : The above Vernier Caliper has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By


 A. Das
 Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/009
ULR No.: CC222126000028426F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	3

Description of Instrument

Name : Vernier Caliper
Identification : BIPL / VC - 02
Range : 0 - 600 mm
Least Count : 0.02 mm
Make : Mitutoyo (Sl. No. : Sl. No: 21203961)

Service Request No. / Order Reference

: 260409/B1167/001 - 018

Receipt of Instrument

: 09.04.2026

Location where calibration performed

: At permanent laboratory

Applicable Specification of Instrument to be Calibrated

: Not Specified

Condition of Instrument to be Calibrated

: Satisfactory

Basis of Calibration

: Direct method with reference to YEA/WI/M-07 & based on
IS 16491 (Part 1):2024 / ISO 13385-1:2019

Environmental Condition during Calibration

: **Temp.** : 20±2°C **RH** : 50±10%

Equipment used for Calibration

: Standard Slip Gauge Set, Standard Long Slip Gauge Set,
Standard Ring Gauge, Standard Cylindrical Pin,
Standard External Micrometer & Slip Gauge Accessories.

Traceability

: To the International System of Units (SI) through national
metrology institute or ISO/IEC 17025:2017 accredited
calibration laboratory vide calibration certificate no:

CC389924000002513F valid till 16.12.2026
24 / 53 / 01 / 041 - S / 3 / 041 - A dated 14.06.2024
24 / 53 / 01 / 041 - S / 3 / 041 - B dated 17.05.2024
YEA(C)/250417/Y001/002 valid till 16.04.2026
YEA(C)/250417/Y001/003 valid till 16.04.2026 &
YEA (C)/251201/Y001/001 valid till 30.11.2026

Measurement Uncertainty

: The figures are stated in the result at coverage factor
 $k = 2$ corresponding to confidence probability of
95% for normal distribution.

Laboratory Identification

: Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and
the results are given in the page 2 to 3 ...of the certificate.

Cont...2

YEA(C)/F-08

Young Engg & Calibration Services Private Limited

Kamardanga Road, Sealdanga Chowrasta, Ichapur, Opp.

Taramaa Ashram, West Bengal, Howrah - 711 104, India.

Contact: +91 33 2677 1411, 2677 1412, 1800 391 9001.

Email: calibration@yeagroup.org | Web: www.yeagroup.org



Certificate No.: YEA(C)/ 260409/B1167/009
 ULR No.: CC222126000028426F
 Calibrated By : S. Debnath

Date: 18.04.2026
 Page 2 of 3 Pages

Calibration Results

Mechanical Calibration

Calibration Results of Vernier Caliper

A. Measurement of Partial surface contact error (E)

Standard Slip Gauge Used (mm)	Position at External Measuring Jaw	Observed DUC Value (mm)	Partial surface contact error (μm)	Max Value (μm)
10	Top	9.98	20	20
	Middle	10.00	0	
	Bottom	10.00	0	

1) Scale Reading : (Using the external measuring face)

Sl. No.	Standard Value (mm)	Observed DUC Value (mm)	Measurement Uncertainty (± μm)
1	10.500	10.50	16
2	25.240	25.24	
3	100.000	100.00	
4	200.000	200.00	
5	300.000	300.00	
6	400.000	400.00	
7	500.000	500.00	
8	580.000	580.00	

2) Scale Reading : (Using the internal measuring face)

Sl. No.	Standard Value (mm)	Observed DUC Value (mm)	Measurement Uncertainty (± μm)
1	25.240	25.24	16

B. Measurement of Repeatability of Partial surface contact error (R)

At Maximum Value	20 μm
------------------	-------

C. Measurement of Scale shift error (S)

Slip Gauge Used (mm)	Position	Observed Standard Value (mm)	Scale shift error (μm)
50	External Jaw	49.98	20
Ring Gauge Used (mm)	Position	Observed Standard Value (mm)	
50	Internal Jaw	50.00	

Cont... 3

Certificate No.: YEA(C)/ 260409/B1167/009
 ULR No.: CC222126000028426F
 Calibrated By : S. Debnath

Date: 18.04.2026
 Page 3 of 3 Pages

<u>D. Combined Width of Internal Measuring Face</u>	Position	Observed Standard Reading
	Tip	12743 mm
	Middle	12.791 mm
	Bottom	12.722 mm

E. Measurement of Partial Line contact error (L)

Value of Cylindrical Pin (mm)	Position at External Measuring Jaw	Observed DUC Value (mm)	Partial surface contact error (μm)	Max Value (μm)
10	Top	9.98	20	20
	Middle	10.00	0	
	Bottom	10.00	0	

F. Measurement of Full Surface Contact error (J)

Slip Gauge Used (mm)	Position	Observed DUC Value (mm)	Full Surface contact error (μm)	Max Value (μm)
10	Covering the whole measuring surface of the External jaws	10.00	0	0
		10.00	0	
		10.00	0	

Summary of Results for Metrological Characteristics

Sl. No.	Metrological Characteristics	Error (μm)
1	Partial surface contact error (E)	20
2	Repeatability of Partial surface contact error (R)	20
3	Scale shift error (S)	20
4	Partial Line Contact Error (L)	20
5	Full Surface Contact Error (J)	0

DUC : Device Under Calibration

REMARKS : The above Vernier Caliper has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By


 A. Das

Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/010
ULR No.: CC222126000028427F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
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Description of Instrument

<i>Name</i>	: Digimatic External Micrometer
<i>Identification</i>	: BIPL / EM - 02
<i>Range</i>	: 0 - 25 mm
<i>Least Count</i>	: 0.001 mm
<i>Make</i>	: Mitutoyo (Sl. No. : 67766002)

Service Request No. / Order Reference

: 260409/B1167/001 - 018

Receipt of Instrument

: 09.04.2026

Location where calibration performed

: At permanent laboratory

Applicable Specification of Instrument to be Calibrated

: Not Specified

Condition of Instrument to be Calibrated

: Satisfactory

Basis of Calibration

: Direct method As per W.I. No.: YEA/WI/M-01
based on IS: 2967:1983

Environmental Condition during Calibration

: **Temp.** : 20±2°C **RH** : 50±10%

Equipment used for Calibration

: Standard Slip Gauge Set

Traceability

: To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: CC389924000002513F valid till 16.12.2026

Measurement Uncertainty

: The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification

: Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and the results are given in the page 2 to 2 ...of the certificate.

Cont. 2

YEA(C)/F-08

Certificate No.: YEA(C)/ 260409/B1167/010
 ULR No.: CC222126000028427F
 Calibrated By : S. Debnath

Date: 18.04.2026
 Page 2 of 2 Pages

Calibration Results

Mechanical Calibration

Calibration Results of Micrometer Scale :

Sl. No.	Standard Value	Observed DUC Value	Measurement Uncertainty
	(mm)	(mm)	(± micron)
1	0" Set	0.000	1.4
2	2.500	2.501	
3	5.100	5.102	
4	7.700	7.697	
5	10.300	10.301	
6	12.900	12.899	
7	15.000	15.002	
8	17.600	17.603	
9	20.200	20.202	
10	22.800	22.804	
11	25.000	25.002	

DUC : Device Under Calibration

REMARKS : The above Digimatic External Micrometer has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/011
ULR No.: CC222126000028428F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Welding Gauge
Identification : BIPL / WG - 01
Make : Kristeel

Service Request No. / Order Reference : 260409/B1167/001 - 018

Receipt of Instrument : 09.04.2026

Location where calibration performed : At permanent laboratory

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Direct Method with reference to YEA/WI/M - 69

Environmental Condition during Calibration : Temp. : 20±2°C RH 50±10%

Equipment used for Calibration : Standard Profile Projector

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/241021/Y001/001 valid till 20.10.2026

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and the results are given in the page 2 to 2 ...of the certificate.

Contd...2

YEA(C)/F-08

Certificate No.: YEA(C)/ 260409/B1167/011
 ULR No.: CC222126000028428F
 Calibrated By : S. Debnath

Date : 18.04.2026
 Page 2 of 2 Pages

Calibration Results

Mechanical Calibration

Calibration Results of Welding Gauge :

Sl. No.	Specified Value of Linear Scale	Standard Value of Linear Scale (mm)	Measurement Uncertainty (± micron)	Specified Value of Angular Scale	Standard Value of Angular Scale	Measurement Uncertainty (± sec of Arc)
1	5.00	5.001	9.0	5 °	5 ° 0 ' 6 "	61
2	10.00	10.001		10 °	10 ° 0 ' 13 "	
3	15.00	15.003		20 °	20 ° 0 ' 19 "	
4	20.00	20.002		30 °	30 ° 0 ' 26 "	
5	25.00	25.004		40 °	40 ° 0 ' 34 "	
6	30.00	30.003		50 °	50 ° 0 ' 42 "	
7	35.00	35.004		60 °	60 ° 0 ' 49 "	

Remarks : The above Welding Gauge has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/012
ULR No.: CC222126000028429F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Infrared Thermometer
Identification : BIPL / IT - 01
Range : (-)38 to 520 °C
Least Count : 0.1 °C
Make : Stanley
Model : STH77365

Service Request No. / Order Reference

: 260409/B1167/001 - 018

Receipt of Instrument

: 09.04.2026

Location where calibration performed

: At permanent laboratory

Applicable Specification of Instrument to be Calibrated

: Not Specified

Condition of Instrument to be Calibrated

: Satisfactory

Basis of Calibration

: Comparison method with reference to YEA/WI/T-07

Environmental Condition during Calibration

: *Temp.* : 25±4°C *RH* : 30 to 75%

Equipment used for Calibration

: Standard Digital Pyrometer

Traceability

: To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: TL/025/674.1.1 valid till 18.06.2026

Measurement Uncertainty

: The figures are stated in the result at coverage factor $k=2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification

: Sticker is affixed for authentication of calibration.



CC-2221

The above Instrument/Equipment/Machine has been calibrated.
The results are given in the page 2 to 2 ...of the certificate.

Com. 2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260409/B1167/012
ULR No.: CC222126000028429F
Calibrated By : S. Saikh

Date: 18.04.2026
Page 2 of 2 Pages

Calibration Results

Thermal Calibration :

Calibration Results of Infrared Thermometer :

Sl. No.	Average DUC Value	Average Standard Value	Measurement Uncertainty
	(°C)	(°C)	(± °C)
1	50.2	50.1	2.8
2	149.6	149.2	3.2
3	301.3	300.5	4.1
4	409.5	408.3	
5	479.8	478.1	

Emissivity : 0.95 upto 500°C

Temperature Scale : ITS - 90

DUC : Device Under Calibration

REMARKS : The above Infrared Thermometer has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/013
ULR No.: CC222126000028430F

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
JL - 32, Mouza Barunda, P.S.: Bagnan,
Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Straight Edge
Identification : BIPL / SE - 01
Size : 1500 mm
Make : Luthra

Service Request No. / Order Reference : 260409/B1167/001 - 018

Receipt of Instrument : 09.04.2026

Location where calibration performed : At permanent laboratory

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/M-76 based on
IS 2220: 1990 (Reaffirmed 2005)

Environmental Condition during Calibration : **Temperature** : 20±2 °C **RH** : 50±10 %

Equipment used for Calibration : Standard Electronic Precision Level &
Standard Electronic Comparator & Granite Surface Plate

Traceability : To National Standard vide Certificate No:
26011590/D1.02/C-178 (Amended) valid till 24.02.2028 &
YEA(C)/250419/Y001/001 valid till 18.04.2026

Measurement Uncertainty : The figures are stated in the result at coverage factor
 $k = 2$ corresponding to confidence probability of
95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and
the results are given in the page 2 to 2 ...of the certificate.

Cont.  2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260409/B1167/013
 ULR No.: CC222126000028430F
 Calibrated By : A. Adhikary

Date: 18.04.2026
 Page 2 of 2 Pages

Calibration Results

Mechanical Calibration

Calibration Results of Straight Edge :

0	-21	-22	-15	-29	-28	-30	-6	-27	8	0	0
A											A ₁

All readings are in micron

Maximum Straightness Error of Working Face : 41 µm

0	-16	-33	-11	-19	0	1	-2	9	8	9	0
B											B ₁

All readings are in micron

Maximum Straightness Error of Working Face : 42.0 µm

Maximum Parallelism Error of Working Faces : 47.0 µm

Measurement Uncertainty for Straightness : (±) 5.9 µm

Measurement Uncertainty for Parallelism : (±) 2.3 µm

DUC : Device Under Calibration

REMARKS : The above Straight Edge has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/014

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
BIPL Fabrication Plant, JL - 32, Mouza Barunda,
P.S.: Bagnan, Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Inside Caliper
Identification : BIPL / IC - 01
Make : Samrat

Service Request No. / Order Reference : 260409/B1167/001 - 018

Receipt of Instrument : 09.04.2026

Location where calibration performed : At permanent laboratory

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison Method with cross reference to
 IS 4052 - 1983

Environmental Condition during Calibration : *Temp.* : 20±2°C *RH* : 50±10%

Equipment used for Calibration : Standard Slip Gauge Set, Standard Long Slip Gauge
 Standard External Micrometer, & Slip Gauge Accessories

Traceability : To the International System of Units (SI) through national
 metrology institute or ISO/IEC 17025:2017 accredited
 calibration laboratory vide calibration certificate no:
 CC389924000002513F valid till 16.12.2026
 24 / 53 / 01 / 041 - S / 3 / 041 - A dated 14.06.2024
 YEA (C)/251201/Y001/001 valid till 30.11.2026

Measurement Uncertainty : ± 65 micron over the range at coverage factor
 $k = 2$ corresponding to confidence probability of
 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and
 the results are given in the page 2 to 2 ...of the certificate.

Cont.....2

YEA(C)/F-08

Certificate No.: YEA(C)/ 260409/B1167/014
Calibrated By : H. Samanta

Dated : 18.04.2026
Page 2 of 2 Pages

Calibration Results

Mechanical Calibration

CALIBRATION RESULTS OF INSIDE CALIPER:

1	Maximum Measuring Capacity	:	456.121	mm
2	Minimum Measuring Capacity	:	29.768	mm

REMARKS : The above Inside Caliper has been calibrated over its range and the readings are tabulated above.

NOTES :

This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only.
The results are provided as observed without any adjustment.

Authorised By



A. Das
Manager Calibration

***** End of the Calibration Certificate *****



Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/015

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
BIPL Fabrication Plant, JL - 32, Mouza Barunda,
P.S.: Bagnan, Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Outside Caliper
Identification : BIPL / OC - 01
Make : Samrat

Service Request No. / Order Reference : 260409/B1167/001 - 018

Receipt of Instrument : 09.04.2026

Location where calibration performed : At permanent laboratory

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison Method with cross reference to
IS 4052 - 1983

Environmental Condition during Calibration : *Temp.* : 20±2°C *RH* : 50±10%

Equipment used for Calibration : Standard Slip Gauge Set, Standard Long Slip Gauge
Standard External Micrometer, & Slip Gauge Accessories

Traceability : To the International System of Units (SI) through national
metrology institute or ISO/IEC 17025:2017 accredited
calibration laboratory vide calibration certificate no:
CC389924000002513F valid till 16.12.2026
24 / 53 / 01 / 041 - S / 3 / 041 - A dated 14.06.2024
YEA (C)/251201/Y001/001 valid till 30.11.2026

Measurement Uncertainty : ± 65 micron over the range at coverage factor
K= 2 corresponding to confidence probability of
95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and
the results are given in the page 2 to 2 ...of the certificate.

Cont. 2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260409/B1167/015
Calibrated By : H. Samanta

Dated : 18.04.2026
Page 2 of 2 Pages

Calibration Results

Mechanical Calibration

CALIBRATION RESULTS OF OUTSIDE CALIPER:

1	Maximum Measuring Capacity	:	0.000	mm
2	Minimum Measuring Capacity	:	431.003	mm

REMARKS : The above Outside Caliper has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only.
The results are provided as observed without any adjustment.

Authorised By


A. Das
Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/016

Dated : 18.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
 BIPL Fabrication Plant, JL - 32, Mouza Barunda,
 P.S.: Bagnan, Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Digital Surface Profile Gauge
Identification : BIPL / DSPG - 01
Range : 0 to 500 micron
Least Count : 0.1 micron upto 100 micron & 1 micron above 100 micron
Make : Workzone (Sl. No.: N976670)
Type : SPG 4

Service Request No. / Order Reference : 260409/B1167/001 - 018

Receipt of Instrument : 09.04.2026

Location where calibration performed : At permanent laboratory

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/M-10

Environmental Condition during Calibration : *Temp.* : 20±2°C *RH* : 50±10%

Equipment used for Calibration : Standard Universal Length Measuring Machine

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/250722/Y001/002 valid till 21.07.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and the results are given in the page 2 to 2 ...of the certificate.

Cont. 2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260409/B1167/016
Calibrated By : A. Adhikary

Date: 18.04.2026
Page 2 of 2 Pages

Calibration Results

A) Calibration Results of the Digital Surface Profile Gauge :

Sl. No.	DUC Value	Standard Value	Measurement Uncertainty
	(mm)	(mm)	(± micron)
1	0.0500	0.0501	1.22
2	0.1000	0.1002	
3	0.150	0.1504	
4	0.200	0.2007	
5	0.250	0.2510	
6	0.300	0.3013	
7	0.350	0.3516	
8	0.400	0.4020	
9	0.450	0.4525	
10	0.500	0.5030	

DUC : Device Under Calibration

REMARKS : The above Digital Surface Profile Gauge has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das
Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260409/B1167/017

Dated : 18.04.2026

Calibrated for : Bhartia Infra Projects Limited
BIPL Fabrication Plant, JL - 32, Mouza Barunda,
P.S.: Bagnan, Howrah, Pin - 711303, West Bengal.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
18.04.2026	18.04.2027	1	2

Description of Instrument

Name : Digital Surface Profile Gauge
Identification : BIPL / DSPG - 02
Range : 0 to 500 micron
Least Count : 0.1 micron upto 100 micron & 1 micron above 100 micron
Make : Workzone (Sl. No.: N976672)
Type : SPG 4

Service Request No. / Order Reference : 260409/B1167/001 - 018

Receipt of Instrument : 09.04.2026

Location where calibration performed : At permanent laboratory

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/M-10

Environmental Condition during Calibration : *Temp.* : 20±2°C *RH* : 50±10%

Equipment used for Calibration : Standard Universal Length Measuring Machine

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/250722/Y001/002 valid till 21.07.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated and the results are given in the page 2 to 2 ...of the certificate.

Cont. 2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260409/B1167/017
Calibrated By : A. Adhikary

Date: 18.04.2026
Page 2 of 2 Pages

Calibration Results

A) Calibration Results of the Digital Surface Profile Gauge :

Sl. No.	DUC Value (mm)	Standard Value (mm)	Measurement Uncertainty (± micron)
1	0.0500	0.0501	1.22
2	0.1000	0.1003	
3	0.150	0.1505	
4	0.200	0.2008	
5	0.250	0.2511	
6	0.300	0.3014	
7	0.350	0.3517	
8	0.400	0.4020	
9	0.450	0.4524	
10	0.500	0.5026	

DUC : Device Under Calibration

REMARKS : The above Digital Surface Profile Gauge has been calibrated over its range and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.

Authorised By


A. Das

Manager Calibration

*** End of the Calibration Certificate ***



A. Das
Manager Calibration

Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/001

Dated : 16.04.2026

Calibrated for : Bhartia Infra Projects Limited
BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
14.04.2026	14.04.2027	1	2

Description of Instrument

<i>Name</i>	: Digital Mig Welding Machine
<i>Identification</i>	: Sl. No. : 220803649
<i>Range</i>	: 0 - 500A / 0 - 40V
<i>Least Count</i>	: 1 A / 0.1 V
<i>Make</i>	: ESAB
<i>Model / Type</i>	: Mig 501i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 01, 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.
 The results are given in the page 2 to ... 2 ...of the Certificate.

Cont. 2

YEA(C)/F-08



Certificate No.:YEA(C)/ 260414S/B1167/001
Calibrated By : T. Jana

Dated : 16.04.2026
Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Mig Welding Machine

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty (±%)
1	Current	100	98.5	1.5	1.51	2.95
2		200	197.8	2.2	1.11	
3		350	346.9	3.1	0.89	
4		450	446.2	3.8	0.85	

Calibration Result of Digital Mig Welding Machine (On Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	18.9	18.8	0.1	0.48	4.24

Calibration Result of Digital Mig Welding Machine (Off Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	27.3	27.1	0.2	0.70	3.29

DUC : Device Under Calibration

REMARKS : The above Digital Mig Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/002

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
 BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
 PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
14.04.2026	14.04.2027	1	2

Description of Instrument

Name : Digital Mig Welding Machine
Identification : Sl. No. : 209-014-0004
Range : 0 - 500A / 0 - 35V
Least Count : 1 A / 0.1 V
Make : ESAB
Model / Type : Mig 500i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 01, 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.
 The results are given in the page 2 to ... 2 ...of the Certificate.

Cont.....2

YEA(C)/F-08

Certificate No.:YEA(C)/ 260414S/B1167/002

Calibrated By : T. Jana

Dated : 16.04.2026

Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Mig Welding Machine

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty (±%)
1	Current	80	81.3	-1.3	-1.61	3.82
2		100	102.5	-2.5	-2.49	
3		300	303.5	-3.5	-1.16	
4		450	451.6	-1.6	-0.35	

Calibration Result of Digital Mig Welding Machine (On Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	26.2	26.1	0.1	0.42	3.38

Calibration Result of Digital Mig Welding Machine (Off Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	15.8	15.7	0.1	0.70	4.84

DUC : Device Under Calibration

REMARKS : The above Digital Mig Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/003

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
14.04.2026	14.04.2027	1	2

Description of Instrument

Name : Digital Mig Welding Machine
Identification : Sl. No. : JC209-2124-0260
Range : 0 - 500A / 0 - 35V
Least Count : 1 A / 0.1 V
Make : ESAB
Model / Type : Mig 500i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 01, 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.
 The results are given in the page 2 to ... 2 ...of the Certificate.

Cont. 2

YEA(C)/F-08

Certificate No.:YEA(C)/ 260414S/B1167/003

Calibrated By : T. Jana

Dated : 16.04.2026

Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Mig Welding Machine

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty (±%)
1	Current	100	99.1	0.9	0.91	2.95
2		200	202.6	-2.6	-1.29	
3		350	346.2	3.8	1.09	
4		450	445.7	4.3	0.96	

Calibration Result of Digital Mig Welding Machine (On Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	21.9	21.6	0.3	1.42	3.81

Calibration Result of Digital Mig Welding Machine (Off Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	31.7	31.4	0.3	0.98	2.99

DUC : Device Under Calibration

REMARKS : The above Digital Mig Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/004

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
 BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
 PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
14.04.2026	14.04.2027	1	2

Description of Instrument

Name : Digital Mig Welding Machine
Identification : Sl. No. : JC209-2123-0069
Range : 0 - 500A / 0 - 35V
Least Count : 1 A / 0.1 V
Make : ESAB
Model / Type : Mig 500i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 01, 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.

The results are given in the page 2 to ... 2 ...of the Certificate.

Cont.....2

YEA(C)/F-08

Certificate No.:YEA(C)/ 260414S/B1167/004

Calibrated By : T. Jana

Dated : 16.04.2026

Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Mig Welding Machine

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty (±%)
1	Current	50	50.8	-0.8	-1.58	3.66
2		200	204.3	-4.3	-2.15	
3		350	353.4	-3.4	-0.97	
4		450	452.6	-2.6	-0.58	

Calibration Result of Digital Mig Welding Machine (On Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	21.3	21.1	0.2	0.99	3.89

Calibration Result of Digital Mig Welding Machine (Off Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	35.0	35.1	-0.1	-0.26	2.82

DUC : Device Under Calibration

REMARKS : The above Digital Mig Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/005

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
 BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
 PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
14.04.2026	14.04.2027	1	2

Description of Instrument

Name : Digital Mig Welding Machine
Identification : Sl. No. : 21084400356
Range : 0 - 400A / 0 - 35V
Least Count : 1 A / 0.1 V
Make : ESAB
Model / Type : Mig 400i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 01, 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.
 The results are given in the page 2 to ... 2 ...of the Certificate.

Cont. 2

YEA(C)/F-08

Certificate No.:YEA(C)/ 260414S/B1167/005

Calibrated By : T. Jana

Dated : 16.04.2026

Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Mig Welding Machine

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty (±%)
1	Current	100	106.3	-6.3	-6.29	3.82
2		200	205.4	-5.4	-2.70	
3		350	353.9	-3.9	-1.11	
4		380	384.8	-4.8	-1.26	

Calibration Result of Digital Mig Welding Machine (On Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	20.0	19.6	0.4	2.05	4.07

Calibration Result of Digital Mig Welding Machine (Off Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	28.3	28.8	-0.5	-1.73	3.21

DUC : Device Under Calibration

REMARKS : The above Digital Mig Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/006

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
 BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
 PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
14.04.2026	14.04.2027	1	2

Description of Instrument

Name : Digital Arc Welding Machine
Identification : Sl. No. : ZG33023370044
Range : 0 - 400 A
Least Count : 1 A
Make : ESAB
Model / Type : Fabricator ES 400i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.
 The results are given in the page 2 to ... 2 ...of the Certificate.

Cont. 2

YEA(C)/F-08

Certificate No.: YEA(C)/ 260414S/B1167/006

Calibrated By : T. Jana

Dated : 16.04.2026

Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Arc Welding Machine :

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty
						(±%)
1	DC Current	100	101.1	-1.1	-1.10	3.86
2		150	151.9	-1.9	-1.27	
3		200	197.2	2.8	1.40	
4		350	346.8	3.2	0.91	

DUC Device Under Calibration

REMARKS : The above Digital Arc Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/007

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
 BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
 PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
14.04.2026	14.04.2027	1	2

Description of Instrument

<i>Name</i>	: Digital Arc Welding Machine
<i>Identification</i>	: Sl. No. : 0447996172
<i>Range</i>	: 0 - 400 A
<i>Least Count</i>	: 1 A
<i>Make</i>	: ESAB
<i>Model / Type</i>	: Fabricator ES 400i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.
 The results are given in the page 2 to ... 2 ...of the Certificate.

Cont.  2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260414S/B1167/007

Calibrated By : T. Jana

Dated : 16.04.2026

Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Arc Welding Machine :

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty
						(±%)
1	DC Current	80	81.0	-1.0	-1.25	3.86
2		100	102.8	-2.8	-2.80	
3		200	201.1	-1.1	-0.55	
4		350	352.7	-2.7	-0.77	

DUC Device Under Calibration

REMARKS : The above Digital Arc Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das
Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/008

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
 BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
 PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
14.04.2026	14.04.2027	1	2

Description of Instrument

Name : Digital Arc Welding Machine
Identification : Sl. No. : ZG33023380010
Range : 0 - 400 A
Least Count : 1 A
Make : ESAB
Model / Type : Fabricator ES 400i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.

The results are given in the page 2 to ... 2 ...of the Certificate.

Cont. 2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260414S/B1167/008
Calibrated By : T. Jana

Dated : 16.04.2026
Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Arc Welding Machine :

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty
						(±%)
1	DC Current	80	82.2	-2.2	-2.75	3.86
2		100	103.5	-3.5	-3.50	
3		200	201.8	-1.8	-0.90	
4		350	352.3	-2.3	-0.66	

DUC Device Under Calibration

REMARKS : The above Digital Arc Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By


A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/009

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
 BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
 PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
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Description of Instrument

<i>Name</i>	: Digital Arc Welding Machine
<i>Identification</i>	: Sl. No. : ZG33023380007
<i>Range</i>	: 0 - 400 A
<i>Least Count</i>	: 1 A
<i>Make</i>	: ESAB
<i>Model / Type</i>	: Fabricator ES 400i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.
 The results are given in the page 2 to ... 2 ...of the Certificate.

Cont. 2

YEA(C)/F-08



Certificate No.:YEA(C)/ 260414S/B1167/009

Calibrated By : T. Jana

Dated : 16.04.2026

Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Arc Welding Machine :

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty
						(±%)
1	DC Current	50	50.9	-0.9	-1.80	3.86
2		100	101.3	-1.3	-1.30	
3		200	202.2	-2.2	-1.10	
4		350	352.7	-2.7	-0.77	

DUC Device Under Calibration

REMARKS : The above Digital Arc Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/010

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
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Description of Instrument

Name : Digital Arc Welding Machine
Identification : Sl. No. : 17044851
Range : 0 - 400 A
Least Count : 1 A
Make : ESAB
Model / Type : Fabricator ES 400i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.
 The results are given in the page 2 to ... 2 ...of the Certificate.

Cont. 2

YEA(C)/F-08

Certificate No.:YEA(C)/ 260414S/B1167/010

Calibrated By : T. Jana

Dated : 16.04.2026

Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Arc Welding Machine :

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty
						(±%)
1	DC Current	50	51.3	-1.3	-2.60	3.86
2		100	102.7	-2.7	-2.70	
3		200	203.6	-3.6	-1.80	
4		350	354.1	-4.1	-1.17	

DUC Device Under Calibration

REMARKS : The above Digital Arc Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/011

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
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Description of Instrument

Name : Digital SAW Machine
Identification : Sl. No. : 22032800015
Range : 0 - 700A / 0 - 30V
Least Count : 1 A / 0.1 V
Make : ESAB
Model / Type : CPRA1250i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 01, 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.

The results are given in the page 2 to ... 2 ...of the Certificate.

Contd. 2

YEA(C)/F-08



Certificate No.: YEA(C)/ 260414S/B1167/011
Calibrated By : T. Jana

Dated : 16.04.2026
Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital SAW Machine

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty (±%)
1	Current	80	82.9	-2.9	-3.61	3.12
2		200	203.4	-3.4	-1.70	
3		400	404.5	-4.5	-1.12	
4		650	655.1	-5.1	-0.78	

Calibration Result of Digital SAW Machine (On Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	25.5	25.2	0.3	1.22	3.44

Calibration Result of Digital SAW Machine (Off Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	29.7	29.1	0.6	2.05	3.11

DUC : Device Under Calibration

REMARKS : The above Digital SAW Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/012

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
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Description of Instrument

Name : Digital SAW Machine
Identification : Sl. No. : 21042800001
Range : 0 - 700A / 0 - 30V
Least Count : 1 A / 0.1 V
Make : ESAB
Model / Type : CPRA1250i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 01, 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.

The results are given in the page 2 to ... 2 ...of the Certificate.

Cont...2

YEA(C)/F-08

Certificate No.: YEA(C)/ 260414S/B1167/012
Calibrated By : T. Jana

Dated : 16.04.2026
Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital SAW Machine

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty (±%)
1	Current	50	52.7	-2.7	-5.38	3.66
2		200	203.5	-3.5	-1.75	
3		400	401.3	-1.3	-0.32	
4		650	653.5	-3.5	-0.54	

Calibration Result of Digital SAW Machine (On Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	18.6	18.2	0.4	2.20	4.29

Calibration Result of Digital SAW Machine (Off Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	32.3	32.2	0.1	0.34	2.95

DUC : Device Under Calibration

REMARKS : The above Digital Digital SAW Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/013

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
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Description of Instrument

Name : Digital SAW Machine
Identification : Sl. No. : 21042800002
Range : 0 - 700A / 0 - 30V
Least Count : 1 A / 0.1 V
Make : ESAB
Model / Type : CPRA1250i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 01, 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.
The results are given in the page 2 to ... 2 ...of the Certificate.

Cont.  2

YEA(C)/F-08

Certificate No.: YEA(C)/ 260414S/B1167/013
Calibrated By : T. Jana

Dated : 16.04.2026
Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital SAW Machine

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty (±%)
1	Current	80	82.7	-2.7	-3.36	3.12
2		200	203.1	-3.1	-1.54	
3		400	403.9	-3.9	-0.97	
4		600	604.5	-4.5	-0.75	

Calibration Result of Digital SAW Machine (On Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	17.3	17.6	-0.3	-1.68	4.52

Calibration Result of Digital SAW Machine (Off Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	27.4	27.1	0.3	1.13	3.28

DUC : Device Under Calibration

REMARKS : The above Digital Digital SAW Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***

Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/014

Dated : 16.04.2026

Calibrated for : Bhartia Infra Projects Limited
BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
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Description of Instrument

Name : Digital SAW Machine
Identification : Sl. No. : 21042800016
Range : 0 - 700A / 0 - 30V
Least Count : 1 A / 0.1 V
Make : ESAB
Model / Type : CPRA1250i

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 01, 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.

The results are given in the page 2 to ... 2 ...of the Certificate.

Cont. 2

YEA(C)/F-08

Certificate No.: YEA(C)/ 260414S/B1167/014
Calibrated By : T. Jana

Dated : 16.04.2026
Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital SAW Machine

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Percentage Error	Measurement Uncertainty (±%)
1	Current	80	81.8	-1.8	-2.24	3.12
2		200	202.6	-2.6	-1.29	
3		400	403.2	-3.2	-0.80	
4		650	651.6	-1.6	-0.24	

Calibration Result of Digital SAW Machine (On Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	19.4	19.8	-0.4	-2.01	4.16

Calibration Result of Digital SAW Machine (Off Load Voltage) :

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Percentage Error	Measurement Uncertainty (±%)
1	DC Voltage	31.6	31.1	0.5	1.61	2.99

DUC : Device Under Calibration

REMARKS : The above Digital SAW Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory. This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***



Calibration Certificate

Certificate No.: YEA(C)/ 260414S/B1167/015

Dated : 16.04.2026

Calibrated for : **Bhartia Infra Projects Limited**
BIPL Fabrication Plant, JL - 32, Mouza - Barunda,
PO. : Bagnan, Howrah, Pin - 711303.

Calibrated on.	Next Calibration Due On.	Page No.	No. of Pages
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Description of Instrument

Name : Analogue SAW Machine
Identification : Sl. No. : 51/19100060
Range : 0 - 1500A / 0 - 100V
Least Count : 50 A / 2 V
Make : MAESTRO

Service Request No. / Order Reference : 260414S/B1167/001-015

Receipt of Instrument : 14.04.2026

Location where calibration performed : At site

Applicable Specification of Instrument to be Calibrated : Not Specified

Condition of Instrument to be Calibrated : Satisfactory

Basis of Calibration : Comparison method with reference to YEA/WI/E(M)- 01, 02

Environmental Condition during Calibration : *Temp.* : 25±10°C *RH* : 60±15%

Equipment used for Calibration : Standard Digital Clampmeter

Traceability : To the International System of Units (SI) through national metrology institute or ISO/IEC 17025:2017 accredited calibration laboratory vide calibration certificate no: YEA(C)/260203/Y001/002 valid till 02.02.2027

Measurement Uncertainty : The figures are stated in the result at coverage factor $k = 2$ corresponding to confidence probability of 95% for normal distribution.

Laboratory Identification : Sticker is affixed for authentication of calibration.

The above Instrument/Equipment/Machine has been calibrated.
The results are given in the page 2 to ... 2 ...of the Certificate.

Cont.  2

YEA(C)/F-08

Certificate No.:YEA(C)/ 260414S/B1167/015
Calibrated By : T. Jana

Dated : 16.04.2026
Page 2 of 2 Pages

Calibration Result

Calibration Result of Digital Mig Welding Machine

Sl. No.	Parameter	DUC Value (A)	Standard Value (A)	Deviation (A)	Full Scale Error (%)	Measurement Uncertainty (±%)
1	Current	200	201.7	-1.7	-0.11	2.68
2		300	302.2	-2.2	-0.15	
3		400	403.2	-3.2	-0.21	
4		500	503.4	-3.4	-0.23	

Sl. No.	Parameter	DUC Value (V)	Standard Value (V)	Deviation (V)	Full Scale Error (%)	Measurement Uncertainty (±%)
1	Voltage	30	30.3	-0.3	-0.29	3.09
2		40	40.7	-0.7	-0.69	

DUC : Device Under Calibration

REMARKS : The above Digital Mig Welding Machine has been calibrated and the readings are tabulated above.

NOTES : This certificate refers to the results tabulated at the time of calibration only for the above mentioned item submitted for calibration and this should not be reproduced, other than in full except with prior written approval from the head of calibration laboratory.
This calibration certificate is valid for scientific and industrial purpose only. The results are provided as observed without any adjustment.

Authorised By



A. Das

Manager Calibration

*** End of the Calibration Certificate ***

