

**CUSTOMER NAME & ADDRESS** : **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No.** : AM24CC07437  
**ULR No.** : CC228624000007437F  
**ENVIRONMENTAL CONDITIONS** : TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE** : AM-WI-01M  
**CALIB. PERFORMED AT** : LAB  
**RECEIPT DATE** : 17/12/2024  
**CALIBRATION DATE** : 18/12/2024  
**SUGG. DUE DATE** : 17/12/2025  
**ISSUE DATE** : 20/12/2024  
**CONDITION ON RECEIPT** : SATISFACTORY

**ITEM DESCRIPTION** : **DIGITAL CALIPER**  
**Sr. No. / ID No.** : 1709181658 /SSB/IVC-02  
**MAKE / MODEL** : INSIZE  
**RANGE / SIZE** : 0 - 150 mm  
**LEAST COUNT** : 0.01 mm  
**LOCATION** : STANDARD ROOM

**TRACEABILITY :-**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION :-**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.
3	SGA-001	SLIP GAUGE ACCESSORIES	10/06/2026	QSI/0784/24/06	QUALITY SOLUTION
4	SRG 005	MASTER RING GAUGE	03/01/2026	AM25CC00086	ACCURATE MEASUREMENTS, DELHI
5	MP 001	MEASURING PIN	03/01/2026	AM25CC00087	ACCURATE MEASUREMENTS, DELHI

**I. MECHANICAL DIMENSION - BASIC****OBSERVATIONS**

PARAMETER							
Sr. No.	STD. VALUE (in mm)	OD		ID		DEPTH	
		UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)
1	1.02	1.02	0.00	--	--	--	--
2	2	2.00	0.00	--	--	--	--
3	5	5.00	0.00	5.00	0.00	--	--
4	10	10.00	0.00	10.00	0.00	10.00	0.00
5	50	49.99	-0.01	50.00	0.00	50.00	0.00
6	100	99.99	-0.01	100.00	0.00	100.00	0.00
7	150	149.98	-0.02	150.01	0.01	150.00	0.00

(a) PARALLELISM OF EXTERNAL JAW

---

0.01

(b) PARALLELISM OF INTERNAL JAW

---

0.00

(c) PARTIAL SURFACE CONTACT ERROR  
AT 20 mm**OBSERVED VALUE****ERROR**

(d) SCALE SHIFT ERROR AT 50 mm

20.00

0.00

(e) LINE CONTACT ERROR AT 10 mm

---

---

(f) ERROR DUE TO CROSS KNIFE EDGE  
DISTANCE AT 5 mm

OD

ID

OD

ID

50.00

50.00

0.00

0.00

TOP

MIDDLE

BOTOM

TOP

MIDDLE

BOTTOM

10.00

9.99

9.99

0.00

-0.01

-0.01

INTERNAL JAW

5.00

0.00

UNCERTAINTY OF MEASUREMENT : ± 0.012 mm (95.45 % OF CONFIDENCE LEVEL, k=2)

REMARK :- CALIBRATED AS PER IS 16491 (Part 1) : 2016.

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

NOTE :-

- The calibration result reported in this certificate are related to item (s) calibrated & is valid at the time of and under stated condition of measurement.
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- Calibration done by the laboratory is meant for scientific and industrial purpose only.

**ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044**

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

ISSUE/REVISION NO. : 04/04

REVISION DATE : 01/05/23

**CUSTOMER NAME & ADDRESS** : **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No.** : AM24CC07436  
**ULR No.** : CC228624000007436F  
**ENVIRONMENTAL CONDITIONS** : TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE** : AM-WI-01M  
**CALIB. PERFORMED AT** : LAB  
**RECEIPT DATE** : 17/12/2024  
**CALIBRATION DATE** : 18/12/2024  
**SUGG. DUE DATE** : 17/12/2025  
**ISSUE DATE** : 20/12/2024  
**CONDITION ON RECEIPT** : SATISFACTORY

**ITEM DESCRIPTION** : **DIGITAL CALIPER**  
**Sr. No. / ID No.** : 0404191001 /SSB/IVC-01  
**MAKE / MODEL** : INSIZE  
**RANGE / SIZE** : 0 - 300 mm  
**LEAST COUNT** : 0.01 mm  
**LOCATION** : STANDARD ROOM

**TRACEABILITY :-**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION :-**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.
3	SGA-001	SLIP GAUGE ACCESSORIES	10/06/2026	QSI/0784/24/06	QUALITY SOLUTION
4	SRG 005	MASTER RING GAUGE	03/01/2026	AM25CC00086	ACCURATE MEASUREMENTS, DELHI
5	MP 001	MEASURING PIN	03/01/2026	AM25CC00087	ACCURATE MEASUREMENTS, DELHI

**I. MECHANICAL DIMENSION - BASIC****OBSERVATIONS****PARAMETER**

Sr. No.	STD. VALUE (in mm)	OD		ID		DEPTH	
		UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)
1	1.02	1.02	0.00	--	--	--	--
2	2	2.00	0.00	--	--	--	--
3	5	5.00	0.00	5.00	0.00	--	--
4	10	10.00	0.00	10.00	0.00	10.00	0.00
5	50	49.99	-0.01	50.00	0.00	50.00	0.00
6	100	99.99	-0.01	100.00	0.00	100.00	0.00
7	150	149.98	-0.02	150.01	0.01	150.00	0.00
8	200	199.98	-0.02	200.01	0.01	200.00	0.00
9	300	299.98	-0.02	300.01	0.01	300.00	0.00

(a) PARALLELISM OF EXTERNAL JAW

---

0.01

(b) PARALLELISM OF INTERNAL JAW

---

0.00

(c) PARTIAL SURFACE CONTACT ERROR  
AT 20 mm

(d) SCALE SHIFT ERROR AT 50 mm

(e) LINE CONTACT ERROR AT 10 mm

(f) ERROR DUE TO CROSS KNIFE EDGE  
DISTANCE AT 5 mm

OBSERVED VALUE			ERROR		
20.00			0.00		
---			---		
OD		ID	OD		ID
50.00		50.00	0.00		0.00
TOP	MIDDLE	BOTTOM	TOP	MIDDLE	BOTTOM
10.00	9.99	9.99	0.00	-0.01	-0.01
INTERNAL JAW					
5.00			0.00		

UNCERTAINTY OF MEASUREMENT : ± 0.012 mm (95.45 % OF CONFIDENCE LEVEL, k=2)

REMARK :- CALIBRATED AS PER IS 16491 (Part 1) : 2016.

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

NOTE :-

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**ACCURATE MEASUREMENTS**, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

ISSUE/REVISION NO. : 04/04

REVISION DATE : 01/05/23

**CUSTOMER NAME & ADDRESS :** **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No.** : AM24CC07444  
**ULR No.** : CC228624000007444F  
**ENVIRONMENTAL CONDITIONS** : TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE** : AM-WI-01M  
**CALIB. PERFORMED AT** : LAB  
**RECEIPT DATE** : 17/12/2024  
**CALIBRATION DATE** : 18/12/2024  
**SUGG. DUE DATE** : 17/12/2025  
**ISSUE DATE** : 20/12/2024  
**CONDITION ON RECEIPT** : SATISFACTORY

**ITEM DESCRIPTION :** **VERNIER CALIPER**  
**Sr. No. / ID No.** : 23021297/SSB/VC-10  
**MAKE / MODEL** : MITUTOYO  
**RANGE / SIZE** : 0 - 300 mm  
**LEAST COUNT** : 0.02 mm  
**LOCATION** : FORGING SHOP

**TRACEABILITY :-**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION :-**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.
3	SGA-001	SLIP GAUGE ACCESSORIES	10/06/2026	QSI/0784/24/06	QUALITY SOLUTION
4	SRG 005	MASTER RING GAUGE	03/01/2025	AM24CC00034	ACCURATE MEASUREMENTS, DELHI
5	MP 001	MEASURING PIN	03/01/2025	AM24CC00035	ACCURATE MEASUREMENTS, DELHI

**I. MECHANICAL DIMENSION - BASIC****OBSERVATIONS****PARAMETER**

Sr. No.	STD. VALUE (in mm)	OD		ID		DEPTH	
		UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)
1	1.02	1.02	0.00	--	--	--	--
2	2	2.00	0.00	--	--	--	--
3	5	5.00	0.00	5.00	0.00	--	--
4	10	10.00	0.00	10.00	0.00	10.00	0.00
5	50	50.00	0.00	50.00	0.00	50.00	0.00
6	100	100.00	0.00	100.00	0.00	100.00	0.00
7	150	149.98	-0.02	150.00	0.00	150.00	0.00
8	200	199.98	-0.02	200.02	0.02	200.00	0.00
9	300	299.98	-0.02	300.02	0.02	300.00	0.00

(a) PARALLELISM OF EXTERNAL JAW

--- 0.02

(b) PARALLELISM OF INTERNAL JAW

--- 0.00

(c) PARTIAL SURFACE CONTACT ERROR  
AT 20 mm

OBSERVED VALUE			ERROR		
20.00			0.00		
---			---		
OD		ID	OD		ID
50.00		50.00	0.00		0.00
TOP	MIDDLE	BOTTOM	TOP	MIDDLE	BOTTOM
10.00	10.00	10.00	0.00	0.00	0.00
INTERNAL JAW					
5.00			0.00		

(d) SCALE SHIFT ERROR AT 50 mm

(e) LINE CONTACT ERROR AT 10 mm

(f) ERROR DUE TO CROSS KNIFE EDGE  
DISTANCE AT 5 mm

UNCERTAINTY OF MEASUREMENT : ± 0.012 mm (95.45 % OF CONFIDENCE LEVEL,  $k=2$ )

REMARK :- CALIBRATED AS PER IS 16491 (Part 1) : 2016.

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

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**ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044**

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

ISSUE/REVISION NO. : 04/04

REVISION DATE : 01/05/23

**CUSTOMER NAME & ADDRESS :** **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No.** : AM24CC07443  
**ULR No.** : CC228624000007443F  
**ENVIRONMENTAL CONDITIONS** : TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE** : AM-WI-01M  
**CALIB. PERFORMED AT** : LAB  
**RECEIPT DATE** : 17/12/2024  
**CALIBRATION DATE** : 18/12/2024  
**SUGG. DUE DATE** : 17/12/2025  
**ISSUE DATE** : 20/12/2024  
**CONDITION ON RECEIPT** : SATISFACTORY

**ITEM DESCRIPTION :** **DIGITAL CALIPER**  
**Sr. No. / ID No.** : 0055464/SSB/DVC-11  
**MAKE / MODEL** : MITUTOYO  
**RANGE / SIZE** : 0 - 300 mm  
**LEAST COUNT** : 0.01 mm  
**LOCATION** : FORGING SHOP FLOOR

**TRACEABILITY :-**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION :-**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.
3	SGA-001	SLIP GAUGE ACCESSORIES	10/06/2026	QSI/0784/24/06	QUALITY SOLUTION
4	SRG 005	MASTER RING GAUGE	03/01/2025	AM24CC00034	ACCURATE MEASUREMENTS, DELHI
5	MP 001	MEASURING PIN	03/01/2025	AM24CC00035	ACCURATE MEASUREMENTS, DELHI

**I. MECHANICAL DIMENSION - BASIC****OBSERVATIONS****PARAMETER**

Sr. No.	STD. VALUE (in mm)	OD		ID		DEPTH	
		UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)
1	1.02	1.02	0.00	--	--	--	--
2	2	2.00	0.00	--	--	--	--
3	5	5.00	0.00	5.00	0.00	--	--
4	10	10.00	0.00	10.00	0.00	10.00	0.00
5	50	49.99	-0.01	50.00	0.00	50.00	0.00
6	100	99.99	-0.01	100.00	0.00	100.00	0.00
7	150	149.98	-0.02	150.01	0.01	150.00	0.00
8	200	199.98	-0.02	200.01	0.01	200.00	0.00
9	300	299.98	-0.02	300.01	0.01	300.00	0.00

(a) PARALLELISM OF EXTERNAL JAW

---

0.01

(b) PARALLELISM OF INTERNAL JAW

---

0.00

(c) PARTIAL SURFACE CONTACT ERROR  
AT 20 mm

(d) SCALE SHIFT ERROR AT 50 mm

(e) LINE CONTACT ERROR AT 10 mm

(f) ERROR DUE TO CROSS KNIFE EDGE  
DISTANCE AT 5 mm

OBSERVED VALUE			ERROR		
20.00			0.00		
---			---		
OD		ID	OD		ID
50.00		50.00	0.00		0.00
TOP	MIDDLE	BOTTOM	TOP	MIDDLE	BOTTOM
10.00	9.99	9.99	0.00	-0.01	-0.01
INTERNAL JAW					
5.00			0.00		

UNCERTAINTY OF MEASUREMENT : ± 0.012 mm (95.45 % OF CONFIDENCE LEVEL,  $k=2$ )

REMARK :- CALIBRATED AS PER IS 16491 (Part 1) : 2016.

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

NOTE :-

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**ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044**

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

ISSUE/REVISION NO. : 04/04

REVISION DATE : 01/05/23

**CUSTOMER NAME & ADDRESS :** **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No.** : AM24CC07442  
**ULR No.** : CC228624000007442F  
**ENVIRONMENTAL CONDITIONS** : TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE** : AM-WI-01M  
**CALIB. PERFORMED AT** : LAB  
**RECEIPT DATE** : 17/12/2024  
**CALIBRATION DATE** : 18/12/2024  
**SUGG. DUE DATE** : 17/12/2025  
**ISSUE DATE** : 20/12/2024  
**CONDITION ON RECEIPT** : SATISFACTORY

**ITEM DESCRIPTION :** **VERNIER CALIPER**  
**Sr. No. / ID No.** : 14260762/SSB/VC-08  
**MAKE / MODEL** : MITUTOYO  
**RANGE / SIZE** : 0 - 300 mm  
**LEAST COUNT** : 0.02 mm  
**LOCATION** : FORGING SHOP FLOOR

**TRACEABILITY :-**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION :-**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.
3	SGA-001	SLIP GAUGE ACCESSORIES	10/06/2026	QSI/0784/24/06	QUALITY SOLUTION
4	SRG 005	MASTER RING GAUGE	03/01/2025	AM24CC00034	ACCURATE MEASUREMENTS, DELHI
5	MP 001	MEASURING PIN	03/01/2025	AM24CC00035	ACCURATE MEASUREMENTS, DELHI

**I. MECHANICAL DIMENSION - BASIC****OBSERVATIONS****PARAMETER**

Sr. No.	STD. VALUE (in mm)	OD		ID		DEPTH	
		UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)
1	1.02	1.02	0.00	--	--	--	--
2	2	2.00	0.00	--	--	--	--
3	5	5.00	0.00	5.00	0.00	--	--
4	10	10.00	0.00	10.00	0.00	10.00	0.00
5	50	50.00	0.00	50.00	0.00	50.00	0.00
6	100	100.00	0.00	100.00	0.00	100.00	0.00
7	150	150.00	0.00	150.00	0.00	150.00	0.00
8	200	199.98	-0.02	200.00	0.00	200.00	0.00
9	300	299.98	-0.02	300.02	0.02	300.00	0.00

(a) PARALLELISM OF EXTERNAL JAW

---

0.02

(b) PARALLELISM OF INTERNAL JAW

---

0.00

(c) PARTIAL SURFACE CONTACT ERROR  
AT 20 mm

(d) SCALE SHIFT ERROR AT 50 mm

(e) LINE CONTACT ERROR AT 10 mm

(f) ERROR DUE TO CROSS KNIFE EDGE  
DISTANCE AT 5 mm

OBSERVED VALUE			ERROR		
20.00			0.00		
---			---		
OD		ID	OD		ID
50.00		50.00	0.00		0.00
TOP	MIDDLE	BOTTOM	TOP	MIDDLE	BOTTOM
10.00	10.00	10.00	0.00	0.00	0.00
INTERNAL JAW					
5.00			0.00		

UNCERTAINTY OF MEASUREMENT : ± 0.012 mm (95.45 % OF CONFIDENCE LEVEL, k=2)

REMARK :- CALIBRATED AS PER IS 16491 (Part 1) : 2016.

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

NOTE :-

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**ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044**

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

ISSUE/REVISION NO. : 04/04

REVISION DATE : 01/05/23

**CUSTOMER NAME & ADDRESS :** **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No.** : AM24CC07441  
**ULR No.** : CC228624000007441F  
**ENVIRONMENTAL CONDITIONS** : TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE** : AM-WI-01M  
**CALIB. PERFORMED AT** : LAB  
**RECEIPT DATE** : 17/12/2024  
**CALIBRATION DATE** : 18/12/2024  
**SUGG. DUE DATE** : 17/12/2025  
**ISSUE DATE** : 20/12/2024  
**CONDITION ON RECEIPT** : SATISFACTORY

**ITEM DESCRIPTION :** **VERNIER CALIPER**  
**Sr. No. / ID No.** : 13003122/SSB/VC-06  
**MAKE / MODEL** : MITUTOYO  
**RANGE / SIZE** : 0 - 300 mm  
**LEAST COUNT** : 0.02 mm  
**LOCATION** : FORGING SHOP FLOOR

**TRACEABILITY :-**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION :-**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.
3	SGA-001	SLIP GAUGE ACCESSORIES	10/06/2026	QSI/0784/24/06	QUALITY SOLUTION
4	SRG 005	MASTER RING GAUGE	03/01/2025	AM24CC00034	ACCURATE MEASUREMENTS, DELHI
5	MP 001	MEASURING PIN	03/01/2025	AM24CC00035	ACCURATE MEASUREMENTS, DELHI

**I. MECHANICAL DIMENSION - BASIC****OBSERVATIONS****PARAMETER**

Sr. No.	STD. VALUE (in mm)	OD		ID		DEPTH	
		UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)
1	1.02	1.02	0.00	--	--	--	--
2	2	2.00	0.00	--	--	--	--
3	5	5.00	0.00	5.00	0.00	--	--
4	10	10.00	0.00	10.00	0.00	10.00	0.00
5	50	50.00	0.00	50.00	0.00	50.00	0.00
6	100	99.98	-0.02	100.00	0.00	100.00	0.00
7	150	149.98	-0.02	150.02	0.02	150.00	0.00
8	200	199.98	-0.02	200.02	0.02	200.00	0.00
9	300	299.98	-0.02	300.02	0.02	300.00	0.00

(a) PARALLELISM OF EXTERNAL JAW

---

0.02

(b) PARALLELISM OF INTERNAL JAW

---

0.00

(c) PARTIAL SURFACE CONTACT ERROR  
AT 20 mm

(d) SCALE SHIFT ERROR AT 50 mm

(e) LINE CONTACT ERROR AT 10 mm

(f) ERROR DUE TO CROSS KNIFE EDGE  
DISTANCE AT 5 mm

OBSERVED VALUE			ERROR		
20.00			0.00		
---			---		
OD		ID	OD		ID
50.00		50.00	0.00		0.00
TOP	MIDDLE	BOTTOM	TOP	MIDDLE	BOTTOM
10.00	10.00	10.00	0.00	0.00	0.00
INTERNAL JAW					
5.00			0.00		

UNCERTAINTY OF MEASUREMENT : ± 0.012 mm (95.45 % OF CONFIDENCE LEVEL, k=2)

REMARK :- CALIBRATED AS PER IS 16491 (Part 1) : 2016.

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

NOTE :-

- The calibration result reported in this certificate are related to item (s) calibrated & is valid at the time of and under stated condition of measurement.
- This certificate should not be reproduced, except in full, without our prior permission in writing.
- Calibration done by the laboratory is meant for scientific and industrial purpose only.

**ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044**

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

ISSUE/REVISION NO. : 04/04

REVISION DATE : 01/05/23

**CUSTOMER NAME & ADDRESS :** **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No.** : AM24CC07440  
**ULR No.** : CC228624000007440F  
**ENVIRONMENTAL CONDITIONS** : TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE** : AM-WI-01M  
**CALIB. PERFORMED AT** : LAB  
**RECEIPT DATE** : 17/12/2024  
**CALIBRATION DATE** : 18/12/2024  
**SUGG. DUE DATE** : 17/12/2025  
**ISSUE DATE** : 20/12/2024  
**CONDITION ON RECEIPT** : SATISFACTORY

**ITEM DESCRIPTION :** **VERNIER CALIPER**  
**Sr. No. / ID No.** : 17141097/SSB/VC-05  
**MAKE / MODEL** : MITUTOYO  
**RANGE / SIZE** : 0 - 300 mm  
**LEAST COUNT** : 0.02 mm  
**LOCATION** : STANDARD ROOM

**TRACEABILITY :-**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION :-**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.
3	SGA-001	SLIP GAUGE ACCESSORIES	10/06/2026	QSI/0784/24/06	QUALITY SOLUTION
4	SRG 005	MASTER RING GAUGE	03/01/2025	AM24CC00034	ACCURATE MEASUREMENTS, DELHI
5	MP 001	MEASURING PIN	03/01/2025	AM24CC00035	ACCURATE MEASUREMENTS, DELHI

**I. MECHANICAL DIMENSION - BASIC****OBSERVATIONS****PARAMETER**

Sr. No.	STD. VALUE (in mm)	OD		ID		DEPTH	
		UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)
1	1.02	1.02	0.00	--	--	--	--
2	2	2.00	0.00	--	--	--	--
3	5	5.00	0.00	5.00	0.00	--	--
4	10	10.00	0.00	10.00	0.00	10.00	0.00
5	50	50.00	0.00	50.00	0.00	50.00	0.00
6	100	100.00	0.00	100.00	0.00	100.00	0.00
7	150	149.98	-0.02	150.00	0.00	150.00	0.00
8	200	199.98	-0.02	200.00	0.00	200.00	0.00
9	300	299.98	-0.02	300.02	0.02	300.00	0.00

(a) PARALLELISM OF EXTERNAL JAW

---

0.02

(b) PARALLELISM OF INTERNAL JAW

---

0.00

(c) PARTIAL SURFACE CONTACT ERROR  
AT 20 mm

(d) SCALE SHIFT ERROR AT 50 mm

(e) LINE CONTACT ERROR AT 10 mm

(f) ERROR DUE TO CROSS KNIFE EDGE  
DISTANCE AT 5 mm

OBSERVED VALUE			ERROR		
20.00			0.00		
---			---		
OD		ID	OD		ID
50.00		50.00	0.00		0.00
TOP	MIDDLE	BOTTOM	TOP	MIDDLE	BOTTOM
10.00	10.00	10.00	0.00	0.00	0.00
INTERNAL JAW					
5.00			0.00		

UNCERTAINTY OF MEASUREMENT : ± 0.012 mm (95.45 % OF CONFIDENCE LEVEL, k=2)

REMARK :- CALIBRATED AS PER IS 16491 (Part 1) : 2016.

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

NOTE :-

- The calibration result reported in this certificate are related to item (s) calibrated & is valid at the time of and under stated condition of measurement.
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- Calibration done by the laboratory is meant for scientific and industrial purpose only.

**ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044**

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

ISSUE/REVISION NO. : 04/04

REVISION DATE : 01/05/23

**CUSTOMER NAME & ADDRESS :** **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No.** : AM24CC07439  
**ULR No.** : CC228624000007439F  
**ENVIRONMENTAL CONDITIONS** : TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE** : AM-WI-01M  
**CALIB. PERFORMED AT** : LAB  
**RECEIPT DATE** : 17/12/2024  
**CALIBRATION DATE** : 18/12/2024  
**SUGG. DUE DATE** : 17/12/2025  
**ISSUE DATE** : 20/12/2024  
**CONDITION ON RECEIPT** : SATISFACTORY

**ITEM DESCRIPTION :** **VERNIER CALIPER**  
**Sr. No. / ID No.** : 20148891/SSB/VC-02  
**MAKE / MODEL** : MITUTOYO  
**RANGE / SIZE** : 0 - 300 mm  
**LEAST COUNT** : 0.02 mm  
**LOCATION** : TOOL ROOM

**TRACEABILITY :-**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION :-**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.
3	SGA-001	SLIP GAUGE ACCESSORIES	10/06/2026	QSI/0784/24/06	QUALITY SOLUTION
4	SRG 005	MASTER RING GAUGE	03/01/2025	AM24CC00034	ACCURATE MEASUREMENTS, DELHI
5	MP 001	MEASURING PIN	03/01/2025	AM24CC00035	ACCURATE MEASUREMENTS, DELHI

**I. MECHANICAL DIMENSION - BASIC****OBSERVATIONS****PARAMETER**

Sr. No.	STD. VALUE (in mm)	OD		ID		DEPTH	
		UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)
1	1.02	1.02	0.00	--	--	--	--
2	2	2.00	0.00	--	--	--	--
3	5	5.00	0.00	5.00	0.00	--	--
4	10	10.00	0.00	10.00	0.00	10.00	0.00
5	50	50.00	0.00	50.00	0.00	50.00	0.00
6	100	100.00	0.00	100.00	0.00	100.00	0.00
7	150	150.00	0.00	150.00	0.00	150.00	0.00
8	200	199.98	-0.02	200.02	0.02	200.00	0.00
9	300	299.98	-0.02	300.02	0.02	300.00	0.00

(a) PARALLELISM OF EXTERNAL JAW

---

0.02

(b) PARALLELISM OF INTERNAL JAW

---

0.00

(c) PARTIAL SURFACE CONTACT ERROR  
AT 20 mm

(d) SCALE SHIFT ERROR AT 50 mm

(e) LINE CONTACT ERROR AT 10 mm

(f) ERROR DUE TO CROSS KNIFE EDGE  
DISTANCE AT 5 mm

OBSERVED VALUE			ERROR		
20.00			0.00		
---			---		
OD		ID	OD		ID
50.00		50.00	0.00		0.00
TOP	MIDDLE	BOTTOM	TOP	MIDDLE	BOTTOM
10.00	10.00	10.00	0.00	0.00	0.00
INTERNAL JAW					
5.00			0.00		

UNCERTAINTY OF MEASUREMENT : ± 0.012 mm (95.45 % OF CONFIDENCE LEVEL,  $k=2$ )

REMARK :- CALIBRATED AS PER IS 16491 (Part 1) : 2016.

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

NOTE :-

- The calibration result reported in this certificate are related to item (s) calibrated & is valid at the time of and under stated condition of measurement.
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- Calibration done by the laboratory is meant for scientific and industrial purpose only.

**ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044**

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

ISSUE/REVISION NO. : 04/04

REVISION DATE : 01/05/23



CUSTOMER NAME & ADDRESS	: M/s S.S.B ENGINEERS (P) LTD. 133, M.I.A. ALWAR - 301030 (RAJASTHAN) - INDIA	CERTIFICATE No.	: AM24CC07438
		ULR No.	: CC228624000007438F
		ENVIRONMENTAL CONDITIONS	: TEMPERATURE (20 ± 2)°C HUMIDITY (60 ± 20) % RH
		CALIB. PROCEDURE	: AM-WI-01M
ITEM DESCRIPTION	: VERNIER CALIPER	CALIB. PERFORMED AT	: LAB
Sr. No. / ID No.	: 18037634/SSB/VC-01	RECEIPT DATE	: 17/12/2024
MAKE / MODEL	: MITUTOYO	CALIBRATION DATE	: 18/12/2024
RANGE / SIZE	: 0 - 300 mm	SUGG. DUE DATE	: 17/12/2025
LEAST COUNT	: 0.02 mm	ISSUE DATE	: 20/12/2024
LOCATION	: SHOP FLOOR	CONDITION ON RECEIPT	: SATISFACTORY

TRACEABILITY :-

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

MASTER(S) USED FOR CALIBRATION :-

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.
3	SGA-001	SLIP GAUGE ACCESSORIES	10/06/2026	QSI/0784/24/06	QUALITY SOLUTION
4	SRG 005	MASTER RING GAUGE	03/01/2025	AM24CC00034	ACCURATE MEASUREMENTS, DELHI
5	MP 001	MEASURING PIN	03/01/2025	AM24CC00035	ACCURATE MEASUREMENTS, DELHI

I. MECHANICAL DIMENSION - BASIC

OBSERVATIONS

PARAMETER							
Sr. No.	STD. VALUE (in mm)	OD		ID		DEPTH	
		UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)
1	1.02	1.02	0.00	--	--	--	--
2	2	2.00	0.00	--	--	--	--
3	5	5.00	0.00	5.00	0.00	--	--
4	10	10.00	0.00	10.00	0.00	10.00	0.00
5	50	50.00	0.00	50.00	0.00	50.00	0.00
6	100	100.00	0.00	100.00	0.00	100.00	0.00
7	150	149.98	-0.02	150.00	0.00	150.00	0.00
8	200	199.98	-0.02	200.02	0.02	200.00	0.00
9	300	299.98	-0.02	300.02	0.02	300.00	0.00

(a) PARALLELISM OF EXTERNAL JAW	---	0.02
(b) PARALLELISM OF INTERNAL JAW	---	0.00
(c) PARTIAL SURFACE CONTACT ERROR AT 20 mm	OBSERVED VALUE 20.00	
	ERROR 0.00	
(d) SCALE SHIFT ERROR AT 50 mm	---	
	OD	ID
	50.00	50.00
(e) LINE CONTACT ERROR AT 10 mm	0.00	0.00
	TOP	MIDDLE
	10.00	10.00
(f) ERROR DUE TO CROSS KNIFE EDGE DISTANCE AT 5 mm	BOTTOM	0.00
	10.00	0.00
	INTERNAL JAW	
	5.00	0.00

UNCERTAINTY OF MEASUREMENT : ± 0.012 mm (95.45 % OF CONFIDENCE LEVEL, k=2)

REMARK :- CALIBRATED AS PER IS 16491 (Part 1) : 2016.

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)	Approved By: - (S. Kaushik, QM)
NOTE :-	
1 The calibration result reported in this certificate are related to item (s) calibrated & is valid at the time of and under stated condition of measurement.	
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ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

**CUSTOMER NAME & ADDRESS :** **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No. :** AM24CC07435  
**ULR No. :** CC228624000007435F  
**ENVIRONMENTAL CONDITIONS :** TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE :** AM-WI-01M  
**CALIB. PERFORMED AT :** LAB  
**RECEIPT DATE :** 17/12/2024  
**CALIBRATION DATE :** 18/12/2024  
**SUGG. DUE DATE :** 17/12/2025  
**ISSUE DATE :** 20/12/2024  
**CONDITION ON RECEIPT :** SATISFACTORY

**ITEM DESCRIPTION :** **DIGITAL CALIPER**  
**Sr. No. / ID No. :** 0068327/SSB/DVC-09  
**MAKE / MODEL :** MITUTOYO  
**RANGE / SIZE :** 0 - 600 mm  
**LEAST COUNT :** 0.01 mm  
**LOCATION :** TOOL ROOM

**TRACEABILITY : -**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION : -**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.

**I. MECHANICAL DIMENSION - BASIC**

**OBSERVATIONS**

Sr. No.	PARAMETER	STANDARD (in mm)	UNIT UNDER CALIBRATION (in mm)	ERROR (in mm)
1	OD	5.000	5.00	0.00
2		10.000	10.00	0.00
3		20.000	20.00	0.00
4		50.000	50.00	0.00
5		100.000	100.00	0.00
6		200.000	200.00	0.00
7		300.000	299.99	-0.01
8		400.000	399.99	-0.01
9		500.000	499.98	-0.02
10		600.000	599.98	-0.02
1	ID	20.000	0.00	0.00
2		50.000	30.00	0.00
3		100.000	80.00	0.00
4		200.000	180.00	0.00
5		300.000	280.00	0.00
6		400.000	380.01	0.01
7		500.000	480.02	0.02
8		600.000	580.02	0.02
(a)	PARALLELISM OF EXTERNAL JAW		---	0.01
(b)	PARALLELISM OF INTERNAL JAW		---	NIL

UNCERTAINTY OF MEASUREMENT : ± 0.010 mm (95.45 % OF CONFIDENCE LEVEL,  $k=2$ )

REMARK : - CALIBRATED AS PER IS - 16491

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

NOTE :-  
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**ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044**

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

ISSUE/REVISION NO. : 04/04

REVISION DATE : 01/05/23

**CUSTOMER NAME & ADDRESS :** **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No.** : AM24CC07434  
**ULR No.** : CC228624000007434F  
**ENVIRONMENTAL CONDITIONS** : TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE** : AM-WI-01M  
**CALIB. PERFORMED AT** : LAB  
**RECEIPT DATE** : 17/12/2024  
**CALIBRATION DATE** : 18/12/2024  
**SUGG. DUE DATE** : 17/12/2025  
**ISSUE DATE** : 20/12/2024  
**CONDITION ON RECEIPT** : SATISFACTORY

**ITEM DESCRIPTION :** **DIGITAL CALIPER**

**Sr. No. / ID No.** : SSB/DVC-06

**MAKE / MODEL** : MITUTOYO

**RANGE / SIZE** : 0 - 300 mm

**LEAST COUNT** : 0.01 mm

**LOCATION** : FORGING DEPTT.

**TRACEABILITY :-**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION :-**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.
3	SGA-001	SLIP GAUGE ACCESSORIES	10/06/2026	QSI/0784/24/06	QUALITY SOLUTION
4	SRG 005	MASTER RING GAUGE	03/01/2025	AM24CC00034	ACCURATE MEASUREMENTS, DELHI
5	MP 001	MEASURING PIN	03/01/2025	AM24CC00035	ACCURATE MEASUREMENTS, DELHI

**I. MECHANICAL DIMENSION - BASIC**

**OBSERVATIONS**

**PARAMETER**

Sr. No.	STD. VALUE (in mm)	OD		ID		DEPTH	
		UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)	UUC VALUE (in mm)	ERROR (in mm)
1	1.02	1.02	0.00	--	--	--	--
2	2	2.00	0.00	--	--	--	--
3	5	5.00	0.00	5.00	0.00	--	--
4	10	10.00	0.00	10.00	0.00	10.00	0.00
5	50	50.00	0.00	50.00	0.00	50.00	0.00
6	100	99.99	-0.01	100.00	0.00	100.00	0.00
7	150	149.99	-0.01	150.01	0.01	150.00	0.00
8	200	199.98	-0.02	200.01	0.01	200.00	0.00
9	300	299.98	-0.02	300.01	0.01	300.00	0.00

(a) PARALLELISM OF EXTERNAL JAW

---

0.01

(b) PARALLELISM OF INTERNAL JAW

---

0.00

(c) PARTIAL SURFACE CONTACT ERROR  
AT 20 mm

(d) SCALE SHIFT ERROR AT 50 mm

(e) LINE CONTACT ERROR AT 10 mm

(f) ERROR DUE TO CROSS KNIFE EDGE  
DISTANCE AT 5 mm

OBSERVED VALUE			ERROR		
20.00			0.00		
---			---		
OD		ID	OD		ID
50.00		50.00	0.00		0.00
TOP	MIDDLE	BOTTOM	TOP	MIDDLE	BOTTOM
10.00	9.99	9.99	0.00	-0.01	-0.01
INTERNAL JAW					
5.00			0.00		

UNCERTAINTY OF MEASUREMENT : ± 0.012 mm (95.45 % OF CONFIDENCE LEVEL, k=2)

REMARK :- CALIBRATED AS PER IS 16491 (Part 1) : 2016.

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

NOTE :-

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- Calibration done by the laboratory is meant for scientific and industrial purpose only.

**ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044**

E-Mail : accurate2@gmail.com ; Mob. No. 9818166269, 9811826626

ISSUE/REVISION NO. : 04/04

REVISION DATE : 01/05/23

**CUSTOMER NAME & ADDRESS :** **M/s S.S.B ENGINEERS (P) LTD.**  
133, M.I.A. ALWAR - 301030  
(RAJASTHAN) - INDIA

**CERTIFICATE No. :** AM24CC07433  
**ULR No. :** CC228624000007433F  
**ENVIRONMENTAL CONDITIONS :** TEMPERATURE (20 ± 2)°C  
HUMIDITY (60 ± 20) % RH  
**CALIB. PROCEDURE :** AM-WI-01M  
**CALIB. PERFORMED AT :** LAB  
**RECEIPT DATE :** 17/12/2024  
**CALIBRATION DATE :** 18/12/2024  
**SUGG. DUE DATE :** 17/12/2025  
**ISSUE DATE :** 20/12/2024  
**CONDITION ON RECEIPT :** SATISFACTORY

**ITEM DESCRIPTION :** **DIGITAL CALIPER**  
**Sr. No. / ID No. :** 0076765/SSB/DVC-05  
**MAKE / MODEL :** MITUTOYO  
**RANGE / SIZE :** 0 - 600 mm  
**LEAST COUNT :** 0.01 mm  
**LOCATION :** SHOP FLOOR

**TRACEABILITY : -**

STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.

**MASTER(S) USED FOR CALIBRATION : -**

Sr. No.	ITEM No.	DESCRIPTION	CALIB. DUE DATE	CERTIFICATE No.	CALIBRATED FROM
1	SGS 001	SLIP GAUGE BLOCK SET	13/06/2025	TI/F/SGS/005/23	TANSON INSTRUMENT, FBD.
2	LSG - 002 / AM/LGB 001	LONG GAUGE BLOCK	26/06/2026	TI/F/LGB/007/24	TANSON INSTRUMENT, FBD.

**I. MECHANICAL DIMENSION - BASIC**

**OBSERVATIONS**

Sr. No.	PARAMETER	STANDARD (in mm)	UNIT UNDER CALIBRATION (in mm)	ERROR (in mm)
1	OD	5.000	5.00	0.00
2		10.000	10.00	0.00
3		20.000	20.00	0.00
4		50.000	50.00	0.00
5		100.000	100.00	0.00
6		200.000	199.99	-0.01
7		300.000	299.99	-0.01
8		400.000	399.99	-0.01
9		500.000	499.98	-0.02
10		600.000	599.98	-0.02
1	ID	20.000	0.00	0.00
2		50.000	30.00	0.00
3		100.000	80.00	0.00
4		200.000	180.00	0.00
5		300.000	280.01	0.01
6		400.000	380.02	0.02
7		500.000	480.02	0.02
8		600.000	580.02	0.02
(a)	PARALLELISM OF EXTERNAL JAW		---	0.01
(b)	PARALLELISM OF INTERNAL JAW		---	NIL

UNCERTAINTY OF MEASUREMENT : ± 0.010 mm (95.45 % OF CONFIDENCE LEVEL,  $k=2$ )

REMARK : - CALIBRATED AS PER IS - 16491

\*\*\*END OF CERTIFICATE\*\*\*

Calibrated By: - (Vikas Sharma, Calib. Engg.)

Approved By: - (S. Kaushik, QM)

NOTE :-

- The calibration result reported in this certificate are related to item (s) calibrated & is valid at the time of and under stated condition of measurement.
- This certificate should not be reproduced, expect in full, without our prior permission in writing.
- Calibration done by the laboratory is meant for scientific and industrial purpose only.

**ACCURATE MEASUREMENTS, PLOT NO. 103, D BLOCK, MEETHAPUR EXTENSION, BADARPUR, NEW DELHI - 110044**

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