PRECISION CALIBRATION LABORATORY

PLOT NO. 644(P), EKAMRA VILLA, JAYDEV VIHAR, BHUBANESWAR - 751 015

Ph. 0674-2558250 (O),Mob - 9937058250, 9938746358

Fax : 0674 - 2558250, E-mail.meher_calibration@yahoo.co.in

NABL CC-2016

CALIBRATION CERTIFICATE

PCL/FORM/06

UNIVERSAL TESTING MACHINE

Calibration Certificate No. PCL / 12494 / 21-22, Date of Issue : 10.08.2021
ULR NO : CC201621000012494F

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	1 / 2	2

1. NAME & ADDRESS OF CUSTOMER : **M/s UTKAL GALVANIZERS LTD**
At: Kapursingh, P.O.: Oranda, Cuttack

2. CUSTOMER REF NO : UGL/CALIBRATION/21-22/048

3. DATE OF RECEIVED : 07.08.2021

4. DETAILS OF INSTRUMENT UNIT UNDER CALIBRATION (UUC) : **UNIVERSAL TESTING MACHINE**
MAKE : FUEL INSTRUMENTS & ENGG.
SR.NO. : 1/ 2006-3351
RANGE : 0 – 600 KN,
LEAST COUNT : 1.0 KN
LOCATION : UGL LAB

5. CONDITION OF EQUIPMENT : OK

6. TRACEABILITY : Calibration is traceable to National Standard through NPL, New Delhi.

7. DETAILS OF THE REFERENCE STANDARD : **1. FORCE PROVING RING**
Force Proving Instrument integrated ring type.
Capacity : 600KN, Sr. No : PR055,
Resolution : 1 Div=0.002mm,
Dial Gauge Make: BAKER & Sl. no : ZAA 192,
Calibrated through NPL, New Delhi
Vide Certificate. No. 20031347/D1.05/C-243
Dt. 28.12.2020, Recommended Date : 28.02.2023

8. ENVIRONMENTAL CONDITIONS : Temperature : 30°C ± 2°C
Relative Humidity : 40% to 70% R.H.

9. PROCEDURE : Comparison method with reference to I.S. 1828 (PART-1) : 2015.

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Calibrated by
M. K. MEHER
Dy. Quality Manager

PRECISION CALIBRATION LABORATORY BBSR

Approved by
H. C. MEHER
Quality Manager

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NABL CC-2016

CALIBRATION CERTIFICATE

Calibration Certificate No. PCL / 12494 / 21-22

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	2 / 2	2

Results : Compression
The calibration data obtained in compression is valid for the following dial gauge setting only.
Large pointer at 12 o' clock position.
Small pointer at 1.
Direction : Clockwise

0 – 600KN										
Applied Force in KN	Standard Reading of Proving Ring	Temperature Corrected reading	Dial gauge Reading (Div)			Mean	Relative Accuracy Error %	Relative Repeatability % Error	Resolution
			Series I	Series II	Series III				
60	84.8	85.0	85	85	85	85.0	0.05	0.00	1.00
120	171.9	172.2	172	173	173	172.7	0.26	0.58	0.50
180	258.2	258.7	259	259	260	259.3	0.25	0.39	0.33
240	346.6	347.3	347	347	348	347.3	0.02	0.29	0.25
300	434.0	434.8	435	436	436	435.7	0.19	0.23	0.20
360	522.2	523.2	522	522	521	521.7	-0.29	0.19	0.16
420	611.3	612.5	610	611	610	610.3	-0.35	0.16	0.14
480	702.2	703.5	701	701	700	700.7	-0.41	0.14	0.12
540	795.7	797.2	793	793	794	793.3	-0.49	0.13	0.10

11. Uncertainty measurement at 95% of confidence level with coverage factor k = 2 : ±0.78%

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Dy. Quality Manager

PRECISION CALIBRATION LABORATORY BBSR

Approved by

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Quality Manager

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NABL CC-2016

CALIBRATION CERTIFICATE

PCL/FORM/06

DIGITAL BALANCE

Calibration Certificate No. PCL / 12495 / 21-22, Date of Issue : 10.08.2021
ULR NO : CC201621000012495F

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	1 / 2	2

1. NAME & ADDRESS OF CUSTOMER : **M/s UTKAL GALVANIZERS LTD**
At: Kapursingh, P.O.: Oranda, Cuttack

2. CUSTOMER REF NO : UGL/CALIBRATION/21-22/048

3. DATE OF RECEIVED : 07.08.2021

4. DETAILS OF INSTRUMENT UNIT UNDER CALIBRATION (UUC) : **DIGITAL BALANCE**

MAKE	: AVERY
MODEL	: A612W
SL. NO	: EB05AW105
RANGE	: 6 Kg
RESOLUTION	: 1 g

5. CONDITION OF EQUIPMENT : OK

6. TRACEABILITY : Calibration is traceable to National Standard through NPL, New Delhi

7. DETAILS OF THE REFERENCE STANDARD :

1. STANDARD WEIGHT (E2 CLASS)
MAKE : WEIGHTRONICS, MODEL : AS-II-WT,
BOX ID.NO.: WT/AS-II/2010/056 Traceable to National standard through NPL, New Delhi, vide Certificate no. 20031348/D1.01/C-018, Dt. 28.05.2020, Valid up to 28.05.2023.

2. STANDARD WEIGHT (F1 CLASS)
MAKE : WEIGHTRONICS, MODEL : AS- III-WT,
BOX ID.NO.: WT/AS-III/2010/057 Traceable to National standard through NPL, New Delhi, vide Certificate no. 20031348/D1.01/C-019, Dt. 28.05.2020, Valid up to 28.05.2023.

8. ENVIRONMENTAL CONDITIONS : Temperature : 25°C ± 3°C
Relative Humidity : 40 to 60% R.H.

9. PROCEDURE : Comparison method with reference to I.S. 9281 & OIML R-76.

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Dy. Quality Manager

PRECISION CALIBRATION LABORATORY BBSR

Approved by
H. C. MEHER
Quality Manager

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CALIBRATION CERTIFICATE

Calibration Certificate No. PCL / 12495 / 21-22

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	2 / 2	2

10. CALIBRATION RESULTS

Mass Value in Kg	Value Of Reference standard in g	Reading of balance in Kg	Uncertainty in g
5	5000.0013	5.008	± 1.113
2	2000.0000	2.004	± 1.076
1	1000.0003	1.002	± 1.076
0.5	500.0005	0.501	± 1.076
0.2	200.00013	0.200	± 1.076
0.1	99.99993	0.100	± 1.076
0.05	49.99993	0.050	± 1.075

ECCENTRICITY OF LOADING

Load	Location	Error
3 Kg	C	0.000
	1	- 0.001
	2	+ 0.001
	3	+ 0.001
	4	0.000

REPEATIBILITY TEST

Load (Half Load) in g	Error in kg	Standard Deviation in kg	Full Load in g	Error in kg	Standard Deviation in kg
3000	0.000	0.0066	6000	0.000	0.0094
3000	+ 0.001		6000	+ 0.002	
3000	0.000		6000	0.000	
3000	0.000		6000	0.000	
3000	+ 0.001		6000	+ 0.001	

11. Uncertainty measurement at 95% of confidence level with coverage factor k = 2.

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Calibrated by

M. K. MEHER
Dy. Quality Manager

Approved by

H. C. MEHER
Quality Manager

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NABL CC-2016

CALIBRATION CERTIFICATE

PCL/FORM/06

VERNIER CALIPER (0 – 200mm)

Calibration Certificate No. PCL / 12496 / 21-22, Date of Issue : 10.08.2021
ULR NO : CC201621000012496F

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	1 / 2	2

1. NAME & ADDRESS OF CUSTOMER : **M/s UTKAL GALVANIZERS LTD**
At: Kapursingh, P.O.: Oranda, Cuttack

2. CUSTOMER REF NO : UGL/CALIBRATION/21-22/048

3. DATE OF RECEIVED : 07.08.2021

4. DETAILS OF INSTRUMENT UNIT UNDER CALIBRATION (UUC) : **VERNIER CALIPER**
MAKE : MITUTOYO
RANGE : 0-200mm
ID.NO : UGL/VC/01
RESOLUTION : 0.02mm

5. CONDITION OF EQUIPMENT : OK

6. TRACEABILITY : Calibration are traceable to National Standard through NABL Accredited Laboratory.

7. DETAILS OF THE REFERENCE STANDARD : **1.CALIPER CHECKER**
Make : Aditya, Sr. No : 574. ID. NO. PCL/ME/086 is traceable to NABL Accredited Laboratory, CC-2660, Vide Calibration Certificate no. TI/B/CC/002/21 Dt.05.02.2021, Calibration Due Dt. 04.02.2023

8. ENVIRONMENTAL CONDITIONS : Temperature : 20°C ± 2°C
Relative Humidity : 40 to 60% R.H.

9. PROCEDURE : PCL/PROC/04/5.4.1/L based on I.S. 3651: 1988.

NOTE
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Calibrated by
M. K. MEHER
Dy. Quality Manager

PRECISION CALIBRATION LABORATORY BBSR

Approved by
H. C. MEHER
Quality Manager

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NABL CC-2016

CALIBRATION CERTIFICATE

Calibration Certificate No. PCL / 12496 / 21-22

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	2 / 2	2

10. CALIBRATION RESULTS

EXTERNAL MEASUREMENT

Reference standard in mm	Reading in UUC in mm	Error in mm	Permissible Error in mm
20.00	20.00	0.00	± 0.02mm
50.00	50.00	0.00	± 0.02mm
100.00	100.00	0.00	± 0.03mm
150.00	150.02	+ 0.02	± 0.03mm
190.00	190.02	+ 0.02	± 0.04mm

INTERNAL MEASUREMENT

Reference standard in mm	Reading in UUC in mm	Error in mm	Permissible Error in mm
20.00	20.00	0.00	± 0.02mm
50.00	50.00	0.00	± 0.02mm
100.00	100.00	0.00	± 0.03mm
150.00	150.02	+ 0.02	± 0.03mm
190.00	190.02	+ 0.02	± 0.04mm

a) Parallelism of internal jaw	Not specified	'0' Error
b) Parallelism of external jaw	Not specified	'0' Error

11. Uncertainty measurement at 95% of confidence level with coverage factor k = 2 : ± 14µm

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M. K. MEHER
Dy. Quality Manager

PRECISION CALIBRATION LABORATORY * BBSR *

Approved by

H. C. MEHER
Quality Manager

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NABL CC-2016

CALIBRATION CERTIFICATE

PCL/FORM/06

VERNIER CALIPER (0 – 300mm)

Calibration Certificate No. PCL / 12497 / 21-22, Date of Issue : 10.08.2021
ULR NO : CC201621000012497F

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	1 / 2	2

1. NAME & ADDRESS OF CUSTOMER : **M/s UTKAL GALVANIZERS LTD**
At: Kapursingh, P.O.: Oranda, Cuttack

2. CUSTOMER REF NO : UGL/CALIBRATION/21-22/048

3. DATE OF RECEIVED : 07.08.2021

4. DETAILS OF INSTRUMENT UNIT UNDER CALIBRATION (UUC) : **VERNIER CALIPER**

MAKE	: MITUTOYO
MODEL	: 530-119
SR.NO	: 190001193
RANGE	: 0-300mm
RESOLUTION	: 0.02mm

5. CONDITION OF EQUIPMENT : OK

6. TRACEABILITY : Calibration are traceable to National Standard through NABL Accredited Laboratory.

7. DETAILS OF THE REFERENCE STANDARD : **1.CALIPER CHECKER**
Make : Aditya, Sr. No : 574. ID. NO. PCL/ME/086 is traceable to NABL Accredited Laboratory, CC-2660, Vide Calibration Certificate no. TI/B/CC/002/21 Dt.05.02.2021, Calibration Due Dt. 04.02.2023

8. ENVIRONMENTAL CONDITIONS : Temperature : 20°C ± 2°C
Relative Humidity : 40 to 60% R.H.

9. PROCEDURE : PCL/PROC/04/5.4.1/L based on I.S. 3651: 1988.

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Dy. Quality Manager

PRECISION CALIBRATION LABORATORY BBSR

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Quality Manager

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CALIBRATION CERTIFICATE

Calibration Certificate No. PCL / 12497 / 21-22

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	2 / 2	2

10. CALIBRATION RESULTS

EXTERNAL MEASUREMENT

Reference standard in mm	Reading in UUC in mm	Error in mm	Permissible Error in mm
20.00	20.00	0.00	± 0.02mm
50.00	50.00	0.00	± 0.02mm
100.00	100.00	0.00	± 0.03mm
150.00	150.00	0.00	± 0.03mm
200.00	200.00	0.00	± 0.04mm
250.00	249.98	- 0.02	± 0.04mm
300.00	299.98	- 0.02	± 0.05mm

INTERNAL MEASUREMENT

Reference standard in mm	Reading in UUC in mm	Error in mm	Permissible Error in mm
20.00	20.00	0.00	± 0.02mm
50.00	50.00	0.00	± 0.02mm
100.00	100.00	0.00	± 0.03mm
150.00	150.00	0.00	± 0.03mm
200.00	200.00	0.00	± 0.04mm
250.00	249.98	- 0.02	± 0.04mm
300.00	299.98	- 0.02	± 0.05mm

a) Parallelism of internal jaw	Not specified	'0' Error
b) Parallelism of external jaw	Not specified	'0' Error

11. Uncertainty measurement at 95% of confidence level with coverage factor k = 2 : ± 14µm

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Dy. Quality Manager

PRECISION CALIBRATION LABORATORY BESR

Approved by

H. C. MEHER
Quality Manager

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NABL CC-2016

CALIBRATION CERTIFICATE

PCL/FORM/06

DIGITAL STOP WATCH

Calibration Certificate No. PCL / 12498 / 21-22, Date of Issue : 10.08.2021
ULR NO : CC201621000012498F

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	1 / 1	1

1. NAME & ADDRESS OF CUSTOMER : **M/s UTKAL GALVANIZERS LTD**
At: Kapursingh, P.O.: Oranda, Cuttack

2. CUSTOMER REF NO : UGL/CALIBRATION/21-22/048

3. DATE OF RECEIVED : 07.08.2021

4. DETAILS OF INSTRUMENT UNIT UNDER CALIBRATION (UUC) : **DIGITAL STOP WATCH**
MAKE : RACER
RANGE : 0 to 30 min
RESOLUTION : 1/100th sec

5. CONDITION OF EQUIPMENT : OK

6. TRACEABILITY : Traceable to National Standard through NABL Accredited Laboratory,

7. DETAILS OF THE REFERENCE STANDARD : **1. DIGITAL TIMER**
MODEL: DT-109, ID. NO. : PCL/ME/181, Traceable to National Standard through NABL Accredited Laboratory, CC-2733, Vide Certificate no. 20026058, Dt. 19.11.2020, Due upto 19.11.2021.

8. ENVIRONMENTAL CONDITIONS : Temperature : 20°C ± 2°C
Relative Humidity : 40 to 60% R.H.

9. PROCEDURE : PCL/PROC/14/5.4.1/L based on I.S. 3231:1987.

10. CALIBRATION RESULTS

Reference standard in Min Sec 1/100th	Average value of UUC in Min Sec 1/100th	Error in Min Sec 1/100th
01 : 00 : 10	01 : 00 : 12	+ 00 : 00 : 02
05 : 00 : 15	05 : 00 : 18	+ 00 : 00 : 03
10 : 00 : 11	10 : 00 : 13	+ 00 : 00 : 02
15 : 00 : 05	15 : 00 : 08	+ 00 : 00 : 03
20 : 00 : 22	20 : 00 : 25	+ 00 : 00 : 03
29 : 59 : 30	29 : 59 : 33	+ 00 : 00 : 03

11. Uncertainty measurement at 95% of confidence level with coverage factor k = 2 : ± 1.23sec.

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Dy. Quality Manager

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PCL/FORM/06

CALIBRATION CERTIFICATE

DIGITAL ELCOMETER

Calibration Certificate No. PCL / 12499 / 21-22, Date of Issue : 10.08.2021
ULR NO : CC201621000012499F

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	1 / 1	1

1. NAME & ADDRESS OF CUSTOMER : **M/s UTKAL GALVANIZERS LTD**
At: Kapursingh, P.O.: Oranda, Cuttack

2. CUSTOMER REF NO : UGL/CALIBRATION/21-22/048

3. DATE OF RECEIVED : 07.08.2021

4. DETAILS OF INSTRUMENT UNIT UNDER CALIBRATION (UUC) : **DIGITAL ELCOMETER**
MAKE : MICROPROCESSOR
MODEL : CM - 8821
RANGE : 20 - 1000 micron
SR.NO : N765820
RESOLUTION : 0.1/1micron

5. CONDITION OF EQUIPMENT : OK

6. TRACEABILITY : Calibration are traceable to National Standard through NABL Accredited Laboratory.

7. DETAILS OF THE REFERENCE STANDARD : **1. DIGITAL MICROMETER**
Make : Mitutoyo, Sr. No : 1323412 traceable to NABL Accredited Laboratory, CC-2016, Vide Calibration Certificate no. PCL/1195/21-22, Dt. 22.01.2021, Calibration Due on. 22.01.2022

8. ENVIRONMENTAL CONDITIONS : Temperature : 20°C ± 2°C
Relative Humidity : 40 to 60% R.H.

9. PROCEDURE : PCL / PROC / 31 / 5.4.1 / L

10. CALIBRATION RESULTS

Reference standard in micron (Slit)	Average value of UUC in micron
51 ± 0.5	51.3
124 ± 1.0	123.0
296 ± 3.0	293.0
426 ± 5.0	421.0
745 ± 8.0	740.0

11. Uncertainty measurement at 95% of confidence level with coverage factor k = 2 : ± 6µm

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NABL CC-2016

PCL/FORM/06

CALIBRATION CERTIFICATE

MEASURING TAPE (0-30mtr.)

Calibration Certificate No. PCL / 12500 / 21-22, Date of Issue : 10.08.2021
ULR NO : CC201621000012500F

Date of Calibration	Calibration Due on	Page	No of Pages
07.08.2021	07.08.2022	1 / 1	1

1. NAME & ADDRESS OF CUSTOMER : **M/s UTKAL GALVANIZERS LTD**
At: Kapursingh, P.O.: Oranda, Cuttack

2. CUSTOMER REF NO : UGL/CALIBRATION/21-22/048

3. DATE OF RECEIVED : 07.08.2021

4. DETAILS OF INSTRUMENT UNIT UNDER CALIBRATION (UUC) : **MEASURING TAPE**
MAKE : FREEMANS
MODEL : IND/09/98/222
SR. NO : S215 – 18
RANGE : 0 – 30 Mtr.
RESOLUTION : 1.0mm

5. CONDITION OF INSTRUMENTS : OK

6. TRACEABILITY : Calibration are traceable to National Standard through NABL Accredited Laboratory.

7. DETAILS OF THE REFERENCE STANDARD : **1. TAPE & SCALE MEASURING MACHINE**
Make: OCTAGON, Sr. No : MSTC-1000/12, Model : MSTC-1000 traceable to NABL Accredited Laboratory, CC-2660, Vide Certificate no. TI/K/MSTC/002/20, Dt. 13.11.2020, Due on : 13.11.2021

8. ENVIRONMENTAL CONDITIONS : Temperature : 20°C ± 2°C
Relative Humidity : 40% to 60% R.H.

9. PROCEDURE : PCL / PROC / 22 / 5.4.1 / L based on to I.S. 1269 : 2002

10. CALIBRATION RESULTS

Reference standard in mm	Average value of UUC in mm	Error in mm	Permissible Error in mm
0 – 500	500.075	+ 0.075	± 0.5mm
0 – 1000	1000.160	+ 0.160	± 0.5mm
4000 – 5000	1000.161	+ 0.161	± 0.5mm
10000 – 11000	1000.164	+ 0.164	± 0.5mm
14000 – 15000	1000.167	+ 0.167	± 0.5mm
19000 – 20000	1000.167	+ 0.167	± 0.5mm
24000 – 25000	1000.170	+ 0.170	± 0.5mm
29000 – 30000	1000.172	+ 0.172	± 0.5mm

11. Uncertainty measurement at 95% of confidence level with coverage factor k = 2: ± 1.61m

NOTE
1. This Certificate is for this the Particular item(s) submitted for Calibration.
2. This certificates shall not be reproduced except in full, unless written Permission obtained from the Authority of the Laboratory.
3. The calibration results reported in this certificates are valid at the time of and under the stated conditions of measurement.

Calibrated by
M. K. MEHER
Dy. Quality Manager

PRECISION CALIBRATION LABORATORY BBSR

Approved by
H. C. MEHER
Quality Manager