INITIAL LATERAL PILE LOAD TEST ON 600mm DIA PILE FOR THE CONSTRUCTION OF IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM IN NASIK CITY TO PREVENT POLLUTION IN RIVER GODAWARI BASED ON PPP/HAM MODEL

(INITIAL TEST PILE AGARTAKLI 79 STP MLD- TP05)

Submitted to

CLIENT – NMC.

PMC- CS TECH

CONTRACTOR -KWWM PVT.LTD.

Qcc lab solutions private limited, Mumbai.

Tel :9452200078,8369458583

E-mail:-calibration@qcclabsolutions.com

Website:- www.qcclabsolutions.com

INITIAL LATERAL PILE LOAD TEST ON 600mm DIA PILE FOR THE CONSTRUCTION OF IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM IN NASIK CITY TO PREVENT POLLUTION IN RIVER GODAWARI BASED ON PPP/HAM MODEL (INITIAL TEST PILE AGARTAKLI 79 STP MLD- TP05)

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1.0 GENERAL

1.1 Clients decided to carry out static pile testing work on 600mm diameter pile to estimate load carrying capacity in lateral direction and settlement. M/s ZedGeo Systems Private Limited, Mumbai was entrusted with work of static lateral pile load test.

1.2 This report covers data for one lateral pile load test. This report covers calculation of safe lateral load capacity for pile based on data collected during fieldwork.

1.3 The following codes of practices have been adopted.

- IS 2911 (Part 4) –2013 “Load Tests on Piles”.

2.0 SCOPE OF WORK

Pile details are tabulated as below.

2.1 Pile details For Lateral Load Test (Routine)

The details of the pile are as given below:

Pile No = TP05

Location = AGARTAKLI

Safe Lateral Capacity of Pile = 3.5T

Test Load on Pile = 8.75T

Diameter of Pile = 600mm

Grade of Concrete =M35

Pile Depth = 10.31 m

2.2 Lateral test load for test pile

The design lateral load on the Initial pile is 3.5T. The pile is required to be tested to.8.75T, As per Clients requirement.

3.0 METHODOLOGY

3.1 The load testing on piles was conducted as per IS: 2911 (Part 4) – 2013.

3.2 Test Load

The lateral load test was carried out to a test load equal to design load as per Client's Instructions and Specifications. The maximum test load was 8.75T for test pile. Load was taken from the adjacent reaction pile.

3.3 Routine Lateral Load Test on Piles

The load testing on piles was conducted as per IS: 2911 (Part 4) – 2013. In a lateral load test conducted on a single pile, The load test conducted on a pile corresponds to a free head condition and the safe lateral load capacity obtained from the test corresponds to that of a free head pile. Lateral pile load test was conducted on free head condition to a test load equals to the design load.

The test was conducted by applying a series of loads on the test pile. The load was applied by means of a hydraulic jack reacting against the reaction pile. The hydraulic jack was of 50T capacity and had a pressure gauge and remote control pump. For the pile to be tested the surface on the sides was prepared smooth and flat to receive the load from the jack.

Calibration charts showing the correctness of the calibration of the pressure gauges and the jack before use was obtained and verified. Jack was fitted with locking devices. Reading of displacement was recorded with the help of two dial gauges of 0.01mm sensitivity placed 300mm apart on test pile as well as the reaction pile. The dial gauges were placed diametrically opposite to the jack and were set to 0 mm at start of the test.

The tip of the dial gauges was rested on the central portion of the glass plate. Readings on the dial gauges were observed immediately before and after application of loads, and immediately before and after release of loads.

The loading was applied in increments close to 20 % of the estimated safe load.

Each stage of loading was maintained until the rate of displacement of the pile top is not more than 0.1 mm per 30 minutes. During the loading stages, the load on the pile was maintained for

a minimum of 30 minutes. The final load was maintained for 60 mins. and the corresponding displacement was observed. The pile test data was suitably presented by curves drawn between variables namely load and displacement and safe load shown on the graphs including field observations. The dial gauge readings shall be taken for the following time intervals in minutes of 1,10,20,30.

Loading and Unloading Sequence for the Lateral pile Load Test

One jack of 50MT. capacity having ram area of 71.20cm2

Effective Ram area is = 71.20cm2 , Design load =3.5 MT.. , Test load =8.75 MT.

Load Increment shall be 20% of design load (3.5),So 0.70 MT.

As the least count of the pressure gauge is 05 kg/cm^2, exact .70 MT. of increment cannot be attained. Hence the values close to the incremental load is considered.

Table 1 – Load Sequence.

Sr. No.	Pressure Gauge (kg/cm2)	Load (MT)	TIME (mins)
1.	0	0	0
2.	20	1.42	1,10,20,30mins
3.	40	2.84	1,10,20,30mins
4.	60	4.27	1,10,20,30mins
5.	80	5.60	1,10,20,30mins
6.	100	7.12	1,10,20,30 mins
7.	125	8.90	1,10,20,30,60 mins

Unloading shall be done in same manner and reading shall be taken for 1,5,10minutes .

4.0 RESULTS

4.1 Acceptance Criteria for Lateral Pile Load Test

The Safe Lateral Capacity of Piles is considered to be the least of the following as per IS: 2911, (Part 4) 2013

- Final load at which total displacement corresponds to 5mm.

From pile load test graph and field readings, it is seen that the average deflection of 5mm for test pile was not observed till last increment of 3.5T which is our safe load requirement.
And as per our field records the following observations were recorded.

1) The Maximum displacement of test pile observed at 8.90T = 2.84mm
2) Total Rebound = 1.08mm
3) Net Deflection = 1.76mm

So as per the test data and the graph we can say that the pile has shown more lateral load carrying capacity than design load of **3.5T** and the deflection was in permissible limits till test load .
Therefore **3.5T** can be adopted as the safe lateral load for the working piles..

18th Nov. 2025.

For Qcc lab solution pvt ltd.

(Authorised Signatory)

QCC LAB SOLUTIONS PVT. LTD. NAVI MUMBAI Sales & Calibration

READINGS AND GRAPH

Qcc lab solutions private limited, Mumbai.
Tel :9452200078,8369458583
E-mail:-calibration@qcclabsolutions.com
Website:- www.qcclabsolutions.com

Qcc lab solutions private limited, Mumbai.

RECORD OF PILE LOAD TEST NO:-TP05
PROJECT:- IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM IN NASHIK TO PREVENT IN RIVER GODAVARI BASED ON PPP/HAM MODEL.
LOCATION :- AGARTAKLI.75 STP MLD PMC- CS TECH
CONTRACTOR:- KWWM PVT LTD **CLIENT:**- NMC

L.C OF DIAL GAUGE:- 0.01mm
Type of Test:- Lateral Load Test
Design Load on Pile:- 3.5 T
Test Load :- 8.75T
Mixed Design :- M25
Pile Diameter: - 600 mm

Ram Area :- 71.2cm2
Date of Casting :- 23/09/2025
Pile Depth :- 10.31 Meter

RLPLT

DATE	TIME	PRESSURE	LOAD IN MT	Dial Gauge				DEFLECTION OF TEST PILE IN MM	DEFLECTION OF REACTION PILE IN MM
	(mins)	GAUGE READING kg/cm2		Reading 1	Reading 2	Reading 3	Reading 4		
				LOADING					
				TEST PILE		REACTION PILE		Avg. Test Pile	Avg. Reaction Pile
07-11-2025	12.30	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
	12.31	20.00	1.42	0.00	0.00	0.31	0.29	0.00	0.30
	12.40			0.00	0.01	0.31	0.29	0.01	0.30
	12.50			0.00	0.01	0.31	0.29	0.01	0.30
	13.00			0.00	0.01	0.31	0.29	0.01	0.30
	13.01	40.00	3.09	0.03	0.07	0.40	0.43	0.05	0.42
	13.10			0.05	0.10	0.40	0.43	0.08	0.42
	13.20			0.05	0.10	0.40	0.43	0.08	0.42
	13.30			0.05	0.10	0.40	0.43	0.08	0.42
	13.31	60.00	4.63	0.51	0.56	0.72	0.79	0.54	0.76
	13.40			0.54	0.59	0.74	0.81	0.57	0.78
	13.50			0.55	0.60	0.75	0.83	0.58	0.79
	14.00			0.55	0.60	0.75	0.83	0.58	0.79
	14.01	80.00	6.18	0.90	0.92	1.40	1.27	0.91	1.34
	14.10			0.93	0.92	1.45	1.35	0.93	1.40
	14.20			1.10	1.11	1.45	1.35	1.11	1.40
	14.30			1.10	1.11	1.45	1.35	1.11	1.40
	14.31	100.00	7.73	1.35	1.31	2.61	2.69	1.33	2.65
	14.40			1.39	1.34	2.61	2.69	1.37	2.65
	14.50			1.40	1.36	2.61	2.69	1.38	2.65
	15.00			1.40	1.36	2.61	2.69	1.38	2.65
	15.01	125.00	8.90	2.35	2.27	3.10	3.14	2.31	3.12
	15.10			2.37	2.32	3.23	3.27	2.35	3.25
	15.20			2.40	2.38	3.23	3.27	2.39	3.25
	15.30			2.43	2.44	3.24	3.27	2.44	3.26
	16.00	125.00	8.90	2.86	2.81	3.24	3.27	2.84	3.26

Qcc lab solutions private limited, Mumbai.

RECORD OF PILE LOAD TEST NO:-TP05
PROJECT:- IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM IN NASHIK TO PREVENT IN RIVER GODAVARI BASED ON PPP/HAM MODEL.
LOCATION :- AGARTAKLI.75 STP MLD PMC- CS TECH
CONTRACTOR:- KWWM PVT LTD

L.C OF DIAL GAUGE:- 0.01mm
Type of Test:- Lateral Load Test
Design Load on Pile:- 3.5 T
Test Load :- 8.75T
Mixed Design :- M25
Pile Diameter: - 600 mm

Ram Area :- 71.2cm2
Date of Casting :- 23/09/2025
Pile Depth :- 10.31 Meter

RLPLT

DATE	TIME	PRESSURE	LOAD IN MT	Dial Gauge				DEFLECTION OF TEST PILE IN MM	DEFLECTION OF REACTION PILE IN MM
	(mins)	GAUGE READING kg/cm2		Reading 1	Reading 2	Reading 3	Reading 4		
				UNLOADING					
				TEST PILE		REACTION PILE			
07-11-2025	16.01	100.00	7.73	2.86	2.81	3.24	3.27	2.84	3.26
	16.05			2.86	2.81	3.24	3.27	2.84	3.26
	16.10			2.86	2.81	3.24	3.27	2.84	3.26
	16.11	80.00	6.18	2.41	2.39	2.48	2.51	2.40	2.50
	16.15			2.41	2.39	2.48	2.51	2.40	2.50
	16.20			2.41	2.39	2.48	2.51	2.40	2.50
	16.21	60.00	4.63	2.41	2.39	2.48	2.51	2.40	2.50
	16.25			2.41	2.39	2.48	2.51	2.40	2.50
	16.30			2.41	2.39	2.48	2.51	2.40	2.50
	16.31	40.00	3.09	2.41	2.39	2.04	2.10	2.40	2.07
	16.35			2.41	2.39	2.04	2.10	2.40	2.07
	16.40			2.41	2.39	2.04	2.10	2.40	2.07
	16.41	20.00	1.42	2.11	2.13	1.75	1.89	2.12	1.82
	16.45			2.07	2.11	1.70	1.85	2.09	1.78
	16.50			2.07	2.11	1.70	1.85	2.09	1.78

Qcc lab solutions private limited, Mumbai.

RECORD OF PILE LOAD TEST NO:-TP05
PROJECT:- IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM IN NASHIK TO PREVENT IN RIVER GODAVARI BASED ON PPP/HAM MODEL.
LOCATION :- AGARTAKLI.75 STP MLD PMC- CS TECH
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Mixed Design :- M25
Pile Diameter: - 600 mm

Ram Area :- 71.2cm2
Date of Casting :- 23/09/2025
Pile Depth :- 10.31 Meter

RLPLT

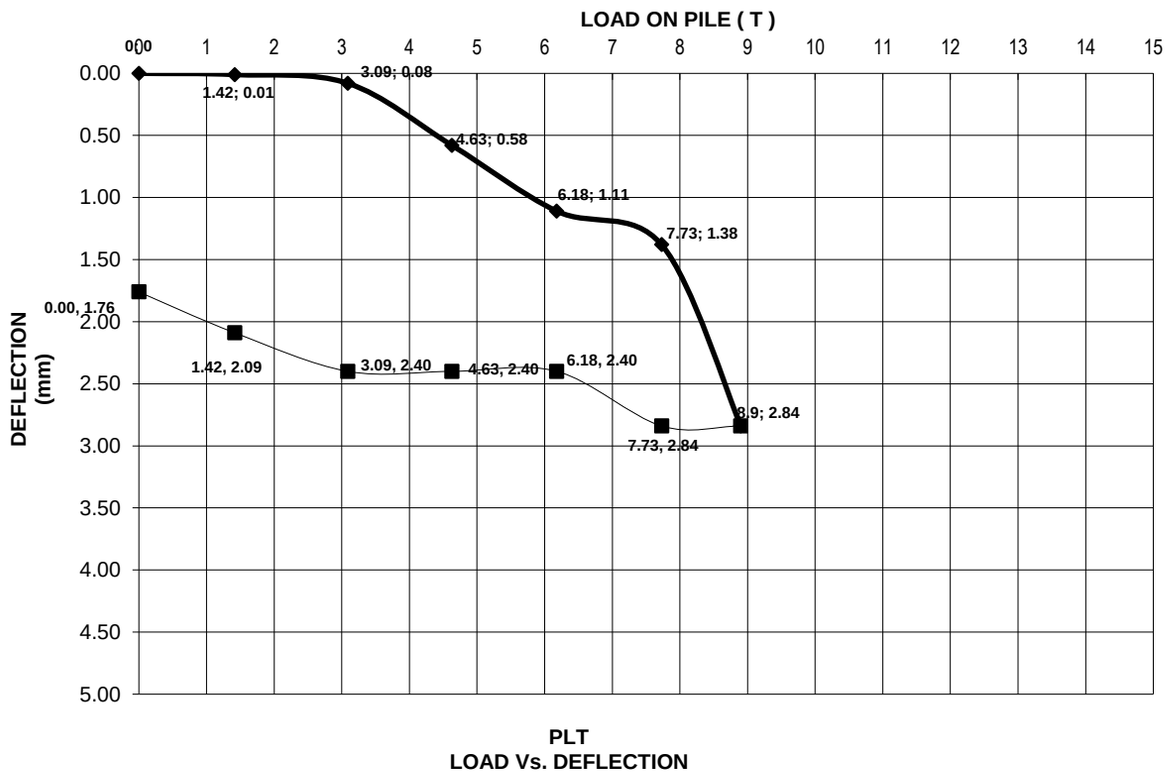
DATE	TIME	PRESSURE	LOAD IN MT	Dial Gauge					
	(mins)	GAUGE READING kg/cm2		Reading 1	Reading 2	Reading 3	Reading 4	DEFLECTION OF TEST PILE IN MM	DEFLECTION OF REACTION PILE IN MM
					UNLOADING				
				TEST PILE		REACTION PILE			
	16.51	0.00	0.00	1.74	1.80	1.15	1.31	1.77	1.23
	16.55			1.71	1.80	1.12	1.26	1.76	1.19
	17.00			1.71	1.80	1.12	1.26	1.76	1.19

Qcc lab solutions private limited, Mumbai.

RECORD OF PILE LOAD TEST NO:- TP01
PROJECT:- MPROVEMENT OF SEWAGE MANAGEMENT
LOCATION :- AGARTAKLI
PMC:- CS TECH
CONTRACTOR:- KWWM PVTV LTD
CLIENT:- NMC.

LOADING	
LOAD	AVERAGE DEFLECTION
(T)	(mm)
0	0.00
1.42	0.01
3.09	0.08
4.63	0.58
6.18	1.11
7.73	1.38
8.9	2.84

UNLOADING	
LOAD	AVERAGE DEFLECTION
(T)	(mm)
8.9	2.84
7.73	2.84
6.18	2.40
4.63	2.40
3.09	2.40
1.42	2.09
0	1.76



PLT
LOAD Vs. DEFLECTION

Maximum Deflection : 2.84mm

Total Rebound : 1.08mm

Final Deflection : 1.76mm

Qcc lab solution pvt ltd..

KWWM/CS TECH/NMC/QCC.

KWWM/CS TECH/NMC/QCC

FIELD READINGS

QCC

Qcc lab solutions private limited, Mumbai.

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RECORD OF PILE LOAD TEST NO:-

PROJECT:- KIWIMPL

LOCATION :- AGARTAKLI

CONTRACTOR:- VEL

CLIENTS NAME:- NMC

L.C OF DIAL GAUGE:-
Type of Test:-
Design load on pile:-
Test Load :-
Mixed Design :-
Pile Diameter :-

Ram Area :-
Date of Casting :-
Pile Depth :-

Page:- 1

LATERAL PILE LOAD TEST

DATE	TIME (Hrs)	PRESSURE GAUGE READING kg/cm2	LOAD IN MT	DIAL GUAGES				Avg Test Pile	Avg Reaction Pile	SIGNATURE			REMARK
				Test Pile		Reaction Pile							
				Reading 1	Reading 2	Reading 3	Reading 4						
7/11/25	12:00	0	0	0	0	0	0						
	12:31	20	1.12	0.00	0.00	0.21	0.29	0.00	0.3				
	12:40			0.00	0.01	0.31	0.29	0.005	0.03				
	12:50			0.00	0.01	0.31	0.29	0.005	0.03				
	13:00			0.00	0.01	0.31	0.29	0.005	0.3				
	13:01	40	3.09	0.03	0.07	0.40	0.43	0.05	0.415				
	13:10			0.05	0.10	0.40	0.43	0.075	0.415				
	13:20			0.05	0.10	0.40	0.43	0.075	0.415				
	13:30			0.05	0.10	0.40	0.43	0.075	0.415				
	13:31	60	4.63	0.51	0.56	0.72	0.79	0.535	0.755				
	13:40			0.54	0.59	0.74	0.81	0.565	0.775				
	13:50			0.55	0.60	0.75	0.83	0.575	0.79				
	14:00			0.55	0.60	0.75	0.83	0.575	0.79				
	14:01	80	6.18	0.90	0.92	1.40	1.27	0.91	1.33				
	14:10			0.93	0.92	1.45	1.35	0.92	1.4				
	14:20			1.10	1.11	1.45	1.35	1.10	1.4				
	14:30			1.10	1.11	1.45	1.35	1.10	1.4				
	14:31	100	7.73	1.35	1.31	2.61	2.69	1.33	2.65				
	14:40			1.39	1.34	2.61	2.69	1.36	2.65				
	14:50			1.40	1.36	2.61	2.69	1.38	2.65				
	15:00			1.40	1.36	2.61	2.69	1.38	2.65				
	15:01	125	8.90	2.35	2.27	3.10	3.14	2.31	3.12				
	15:10			2.37	2.32	3.23	3.27	2.34	3.25				
	15:20			2.40	2.38	3.23	3.27	2.39	3.25				
	15:30			2.43	2.44	3.24	3.27	2.43	3.25				
	16:00	←		2.86	2.81	3.24	3.27	2.83	3.255				

Zed Core N Bore

RECORD OF PILE LOAD TEST NO:-

PROJECT:- KWIMPL

LOCATION :- AGARTAKLI

CONTRACTOR:- VEL

CLIENTS NAME:- NMC

L.C OF DIAL GAUGE:-

Type of Test:-

Design load on pile:-

Test Load :-

Mixed Design :-

Pile Diameter :-

Ram Area :-

Date of Casting :-

Pile Depth :-

Page:- 2

LATERAL PILE LOAD TEST

DATE	TIME	PRESSURE GAUGE READING kg/cm2	LOAD IN MT	DIAL GUAGES				Avg Test Pile	Avg Reaction Pile	SIGNATURE			REMARK
				Test Pile		Reaction Pile							
	(Hrs)			Reading 1	Reading 2	Reading 3	Reading 4						
7/11/25	16.01	100	7.73	2.86	2.81	3.24	3.27	2.83	3.255				
	16.05			2.86	2.81	3.24	3.27	2.83	3.255				
	16.10			2.86	2.81	3.24	3.27	2.83	3.255				
	16.11	80	6.18	2.41	2.39	2.48	2.51	2.4	2.49				
	16.15			2.41	2.39	2.48	2.51	2.4	2.49				
	16.20			2.41	2.39	2.48	2.51	2.4	2.49				
	16.21	60	4.63	2.41	2.39	2.48	2.51	2.4	2.49				
	16.25			2.41	2.39	2.48	251	2.4	2.49				
	16.30			2.41	2.39	2.48	2.51	2.4	2.49				
	16.31	40	3.09	2.41	2.39	2.04	2.10	2.4	2.07				
	16.35			2.41	2.39	2.04	2.10	2.4	2.07				
	16.40			2.41	2.39	2.04	2.10	2.4	2.07				
	16.41	20	1.42	2.11	2.13	1.75	1.89	2.12	1.82				
	16.45			2.07	2.11	1.70	1.85	2.09	1.77				
	16.50			2.07	2.11	1.70	1.85	2.09	1.77				
	~~16.01~~	~~00~~											
	16.51	00	00	1.74	1.80	1.15	1.31	1.77	1.23				
	16.55			1.71	1.80	1.12	1.26	1.755	1.19				
	17.00			1.71	1.80	1.12	1.26	1.755	1.19				

CALIBRATION CERTIFICATES

Qcc lab solutions private limited, Mumbai.

mylabequipments.com
support@mylabequipments.com

QCC LAB SOLUTIONS PVT. LTD.

Equipment Sales & Calibration Services

Format No: QCC/DG/01 Rev. No.- 00

CALIBRATION CERTIFICATE

Calibration Certificate No.	: **QCC-2303-16030**
Calibration Report Date	: **01/12/2025**
Customer Name	: **M/s. ZEDZEO SYSTEMS PRIVET LIMITED**
Site Address	: **Navi Mumbai**
Date of Calibration	: **01/04/2025**
Calibration Due Date (as per customer requirment)	: **01/04/2026**

DETAILS OF UNIT UNDER CALIBRATION

Equipement Description	: **Analog Dial Gauge**
Id of UUC	: **ZSPL/DG/02**
Make.	: **BAKER**
Model No.	: **FJA452**
Range (mm)	: **0-25 mm**
Resolution (mm)	: **0.01**

DETAIL OF MASTER EQUIPMENT USED FOR CALIBRATION

Master Equipement Description	Range	Calibration Certificate No.	Make	Calibration Date	Calibration Date
Dial calibration Tester	0-25 mm	M-210209-25-1	Reddy Instruments	05/09/2024	05/09/2025

Calibration Method : **IS 2092 -1983, QCC/SOP/15**

Calibration Done on Location : **AT LAB**

Room Temp. (°C) & Humadity (%RH) : **20.1 & 56**

Unit of Measurement : mm

Sr.No.	Set point on DUC	Reading on master (Avg.)	Deviation/Error	Expanded Uncertainty in ±
1	0.0	0.0000	0.0000	
2	2.5	2.5003	0.0003	
3	5.0	5.0009	0.0009	
4	7.5	7.5085	0.0085	
5	10.0	10.0013	0.0013	
6	12.5	12.5019	0.0019	0.007
7	15.0	15.0064	0.0064	
8	17.5	17.5068	0.0068	
9	20.0	20.0084	0.0084	
10	22.5	22.5093	0.0093	
11	25.0	25.0092	0.0092	

Remarks:

1. DUC stands for device under calibration.
2. The certificate shall refers only to the perticuler item submitted for calibration .
3. The certificate shall not be reproduced exceppt in full unless written permission for the publication of an approved abstract has been obtained from the the technical manager of QCC lab solution Pvt. Ltd. Navi Mumbaii.
4. As found ;As left
5. The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
6. Calibration point don as per customer request

(Calibrated By)

QCC LAB SOLUTIONS PVT. LTD. NAVI MUMBAI Sales & Calibration

(Authorised Signatory)

HEAD OFFICE: ROHIT PANDEY
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MOB: 9452200078
ratnesh@qcclabsolutions.com

OFFICE: U78, Ground Floor, Sector-4, Airoli, Navi Mumbai-400708

QCC LAB SOLUTIONS PVT. LTD.

Equipment Sales & Calibration Services

Format No: QCC/DG/01 Rev. No.- 00

CALIBRATION CERTIFICATE

Calibration Certificate No.	: **QCC-2303-16031**
Calibration Report Date	: **01/04/2025**
Customer Name	: **M/s. ZEDZEO SYSTEMS PRIVET LIMITED**
Site Address	: **Navi Mumbai**
Date of Calibration	: **01/04/2025**
Calibration Due Date (as per customer requirment)	: **01/04/2026**

DETAILS OF UNIT UNDER CALIBRATION

Equipement Description	: **Analog Dial Gauge**
Id of UUC	: **ZSPL/DG/01**
Make.	: **BAKER**
Model No.	: **FIB564**
Range (mm)	: **0-25 mm**
Resolution (mm)	: **0.01**

DETAIL OF MASTER EQUIPMENT USED FOR CALIBRATION

Master Equipement Description	Range	Calibration Certificate No.	Make	Calibration Date	Calibration Date
Dial calibration Tester	0-25 mm	M-210209-25-1	Reddy Instruments	05/09/2024	05/09/2025

Calibration Method : **IS 2092 -1983, QCC/SOP/15**

Calibration Done on Location : **AT LAB**

Room Temp. (°C) & Humadity (%RH) : **20.4 & 53** **Unit of Measurement : mm**

Sr.No.	Set point on DUC	Reading on master (Avg.)	Deviation/Error	Expanded Uncertainty in ±
1	0.0	0.0000	0.0000	0.007
2	2.5	2.4984	-0.0016	
3	5.0	4.9992	-0.0008	
4	7.5	7.4968	-0.0032	
5	10.0	9.9983	-0.0017	
6	12.5	12.4846	-0.0154	
7	15.0	14.9854	-0.0146	
8	17.5	17.4837	-0.0163	
9	20.0	19.9914	-0.0086	
10	22.5	22.4911	-0.0089	
11	25.0	24.9930	-0.0070	

Remarks:

1. DUC stands for device under calibration.
2. The certificate shall refers only to the perticuler item submitted for calibration .
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4. As found ;As left
5. The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
6. Calibration point don as per customer request

(Calibrated By)

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QCC LAB SOLUTIONS PVT. LTD.
Equipment Sales & Calibration Services

Format No: QCC/DG/01 Rev. No.- 00

CALIBRATION CERTIFICATE

Calibration Certificate No.	: **QCC-2303-16032**
Calibration Report Date	: **01/04/2025**
Customer Name	: **M/s. ZEDZEO SYSTEMS PRIVET LIMITED**
Site Address	: **Navi Mumbai**
Date of Calibration	: **01/4/2025**
Calibration Due Date (as per customer requirment)	: **01/04/2026**

DETAILS OF UNIT UNDER CALIBRATION

Equipement Description	: **Analog Dial Gauge**
Id of UUC	: **ZSPL/DG/02**
Make.	: **BAKER**
Model No.	: 215357
Range (mm)	: **0-25 mm**
Resolution (mm)	: **0.01**

DETAIL OF MASTER EQUIPMENT USED FOR CALIBRATION

Master Equipement Description	Range	Calibration Certificate No.	Make	Calibration Date	Calibration Date
Dial calibration Tester	0-25 mm	M-210209-25-1	Reddy Instruments	05/09/2024	05/09/2025

Calibration Method : **IS 2092 -1983, QCC/SOP/15**
Calibration Done on Location : **AT LAB**
Room Temp. (°C) & Humadity (%RH) : **20.1 & 56** **Unit of Measurement : mm**

Sr.No.	Set point on DUC	Reading on master (Avg.)	Deviation/Error	Expanded Uncertainty in ±
1	0.0	0.0000	0.0000	
2	2.5	2.5003	0.0003	
3	5.0	5.0009	0.0009	
4	7.5	7.5085	0.0085	
5	10.0	10.0013	0.0013	
6	12.5	12.5019	0.0019	0.007
7	15.0	15.0064	0.0064	
8	17.5	17.5068	0.0068	
9	20.0	20.0084	0.0084	
10	22.5	22.5093	0.0093	
11	25.0	25.0092	0.0092	

Remarks:

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QCC LAB SOLUTIONS PVT. LTD.
Equipment Sales & Calibration Services

Format No: QCC/DG/01 Rev. No.- 00

CALIBRATION CERTIFICATE

Calibration Certificate No.	: **QCC-2303-16034**
Calibration Report Date	: **01/04/2025**
Customer Name	: **M/s. ZEDZEO SYSTEMS PRIVET LIMITED**
Site Address	: **Navi Mumbai**
Date of Calibration	: **01/04/2025**
Calibration Due Date (as per customer requirment)	: **01/04/2026**

DETAILS OF UNIT UNDER CALIBRATION

Equipement Description	: **Analog Dial Gauge**
Id of UUC	: **ZSPL/DG/04**
Make.	: BAKER
Model No.	: **214954**
Range (mm)	: **0-25 mm**
Resolution (mm)	: **0.01**

DETAIL OF MASTER EQUIPMENT USED FOR CALIBRATION

Master Equipement Description	Range	Calibration Certificate No.	Make	Calibration Date	Calibration Date
Dial calibration Tester	0-25 mm	M-210209-25-1	Reddy Instruments	05/09/2024	05/09/2025

Calibration Method : **IS 2092 -1983, QCC/SOP/15**
Calibration Done on Location : **AT LAB**
Room Temp. (°C) & Humadity (%RH) : **20.3 & 56**
Unit of Measurement : mm

Sr.No.	Set point on DUC	Reading on master (Avg.)	Deviation/Error	Expanded Uncertainty in ±
1	0.0	0.0000	0.0000	0.007
2	2.5	2.4991	-0.0011	
3	5.0	4.9995	-0.0005	
4	7.5	7.4976	-0.0024	
5	10.0	9.9997	-0.0003	
6	12.5	12.4967	-0.0033	
7	15.0	14.9941	-0.0059	
8	17.5	17.4936	-0.0064	
9	20.0	19.9985	-0.0015	
10	22.5	22.4969	-0.0031	
11	25.0	24.9990	-0.0010	

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