

**INITIAL STATIC VERTICAL PILE LOAD TEST ON 600MM DIA PILE**  
**FOR IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM**  
**IN NASHIK TO PREVENT IN RIVER GODAVARI BASED ON**  
**PPP/HAM MODEL.**

**(INITIAL TEST PILE AGARTAKLI 97 MLD STP.TP- 04)**



**CLIENT :- NMC.**

**PMC:- CS TECH**

**CONTRACTOR :- KUMBH WASTE WATER MANAGEMENT Pvt Ltd.**

**QCC**

**QCC LAB SOLUTIONS PVT LTD, Mumbai.**

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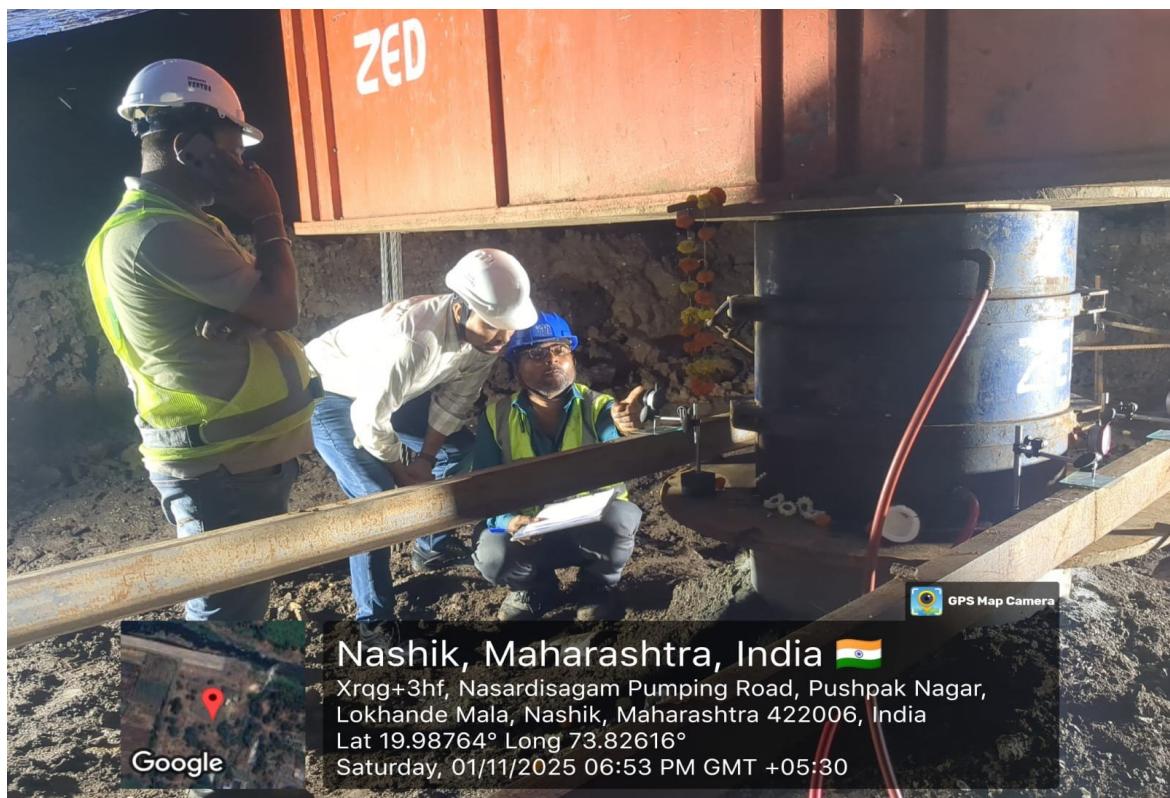
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**FOR IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM  
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**1.0 GENERAL**

1.1 Clients decided to carry out static pile testing work on 600mm diameter pile to estimate load carrying capacity in vertical direction and settlement. M/s ZedGeo Systems Pvt Ltd., Mumbai was entrusted with work of static pile load test. This is the Initial test at **IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM IN NASHIK TO PREVENT IN RIVER GODAVARI BASED ON PPP/HAM MODEL.**

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

1.3 The following codes of practices have been adopted.

- IS: 14593 – 1998 (Reaffirmed 2003). "Design and Construction of Bored Cast-in-Situ Piles Founded on Rocks – Guidelines."
- IS 2911 (Part 4) (Reaffirmed 2013) "Code of Practice for Design and Construction of Pile Foundations -Concrete Piles -Bored Cast – In – situ piles - Load Tests on Piles".

## **2.0 SCOPE OF WORK**

Pile details are tabulated as below.

### **2.1 Pile details for Initial Pile (For Vertical Load Test)**

**Location: - AGARTAKLI 97 MLD STP.**

The details of the pile are as given below:

**Maximum vertical Safe capacity of Pile = 147T**

**Diameter of Pile = 600mm**

**Grade of Concrete = M25**

**Pile Depth = 7.5m**

### **Test Load**

### **2.2 Vertical test load for Initial pile**

The design vertical load on the pile is 147T.

The pile is required to be tested to a load of 367.5T.

### **3.0 METHODOLOGY**

3.1 The load testing on piles shall be conducted as per IS: 2911 (Part 4) – 1985 (Reaffirmed 2013).

#### **Vertical Load Test On Piles**

##### **3.2 Test Load**

The Initial load test was carried out to a test load of 2.5 times the design load as per clients requirement. The maximum test load was 367.5T for test pile.

##### **3.3 Initial Vertical Load Test on Piles**

The pile load test was conducted by applying a series of vertical load on the test pile. The test pile has been loaded in increment up to the test loads and then unloaded as given in Table 3-1. The load was applied by means of 1 hydraulic jack of 1500 tons reacting against a symmetrically erected reaction crown system . The hydraulic jack was of adequate capacity and had a pressure gauge and remote control pump.

The pile to be tested was chipped and dressed to a well-levelled surface. All the sensors were fixed at the time of casting of pile and immediately after the dressing of pile. The circular steel plates of suitable thickness and of slightly bigger diameter than the diameter of the pile were placed over a fine layer of sand spread over the top of the pile.

Four jacks were places diametrically opposite and places between the gap formed by the top of the plate resting on the pile and the lower plate of the crown. The jacks were connected and operated by one pump. The testing agency submitted calibration charts showing the correctness of the calibration of the pressure gauges and the dial gauges before use. All jacks will be fitted with locking devices. Another plate of suitable thickness shall be placed over the ram of the jack, which is later raised by operating the hydraulic pump so that the plate on the top of the ram butts against the bottom plate of the crown.

Reading of settlement and rebound was recorded with the help of four dial gauges of 0.01 mm sensitivity and resting on diametrically opposite ends of the pile cap. The dial gauges were fixed to a support at least 3 times the diameter of the pile or a minimum of 1.50 m away clear from the edge of pile. Readings on the dial gauges are to be observed immediately before and after application of loads, and immediately before and after release of loads.

## **PILE LOAD TEST FOR THE CONSTRUCTION OF SEWAGE MANAGEMENT SYSTEM IN NASIK CITY**

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The loading was applied in increments of 20 % of the design load on Pile. Each load was kept for 1 Hr. During the unloading stages, the load on the pile shall be maintained for a minimum of 10 minutes and the subsequent elastic rebound in the pile shall be measured accurately by dial gauges. The final load was maintained for 24 hrs and the corresponding settlement was observed. Rebounding was recorded after the entire load is released. The pile test data is suitably presented by curves drawn between variables namely load and displacement and safe loads shown on the graphs including field observations.

## **PILE LOAD TEST FOR THE CONSTRUCTION OF SEWAGE MANAGEMENT SYSTEM IN NASIK CITY**

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The sequence of loading and unloading shall be as described below

1 jack of 1500T of Ram area = 2551cm<sup>2</sup>.

So Effective Ram area is = 2551cm<sup>2</sup>.

Design Load=147MT. Test Load = 367.5MT.

Load Increment shall be 20% of Design load (147T), so 29T

Increments shall be selected close to 29T.

Least Count of Pressure gauge is 5 kg/cm<sup>2</sup>

Table 1 – Load Sequence

<b>Pressure Gauge (kg/cm<sup>2</sup>)</b>	<b>Load (MT)</b>	<b>Reading Time(Mins)</b>
0	0	0
15	38.26	1,15,30,45,60 <sup>th</sup> minute
30	76.53	1,15,30,45,60 <sup>th</sup> minute
45	114.79	1,15,30,45,60 <sup>th</sup> minute
60	153.06	1,15,30,45,60 <sup>th</sup> minute
75	191.32	1,15,30,45,60 <sup>th</sup> minute
90	229.59	1,15,30,45,60 <sup>th</sup> minute
105	267.85	1,15,30,45,60 <sup>th</sup> minute
120	306.12	1,15,30,45,60 <sup>th</sup> minute
135	344.38	1,15,30,45,60 <sup>th</sup> minute
150	382.65	24 hours Holding
Unloading		
135	344.38	1,5,10 mins
120	306.12	1,5,10 mins
105	267.85	1,5,10 mins
90	229.59	1,5,10 mins
75	191.32	1,5,10 mins
60	153.06	1,5,10 mins
45	114.79	1,5,10 mins
30	76.53	1,5,10 mins
15	38.26	1,5,10 mins
0	0	1,5,10 mins

## **4.0 RESULTS**

### **4.1 Acceptance Criteria for Vertical Pile Load Test**

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

- Two thirds of load at which total settlement attains a value of 12mm or maximum of 2 percent of the pile diameter which in this case works out to be 12mm, whichever is less.
- 50 % of the load corresponding to a settlement of 10% of pile diameter i.e 60mm

The Maximum settlement as per our field record at 382.65T after 24 hours = 9.88mm.

Total Rebond = 2.36mm

The net settlement = 7.52mm

So, as per the Test data and the graph we can say that the test pile has shown more load carrying capacity than design load of 147T.

So, 147T can be adopted as the safe vertical load for working piles.

**10<sup>th</sup> Nov 2025**

**QCC LAB SOLUTIONS Pvt Ltd, Mumbai.**



(Authorised Signatory)



## **READINGS AND GRAPH**



**QCC LAB SOLUTIONS Pvt Ltd, Mumbai.**

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**QCC LAB SOLUTIONS Pvt Ltd, Mumbai.**

**RECORD OF PILE LOAD TEST NO:- TP-04**  
**PROJECT:- IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM**  
**IN NASHIK TO PREVENT IN RIVER GODAVARI BASED ON**  
**PPR/HAM MODEL**

**LOCATION** AGARTAKI 187 MLD STR

**CONSULTANT : CS TECH**

**CONSULTANT :-CS TECH**

Page 234

Type of Test: IVR/LT

Type of Test:-

Design Load :- 147 MT

**Test Load :- 367.5 MT**

## **Mixed Design :- M25**

Page:-1

**Ram Area :-**

**Date of Casting :-** 05-09-2025.

**Pile Length :-** 7.5 mtr



**QCC LAB SOLUTIONS Pvt Ltd, Mumbai.**

RECORD OF PILE LOAD TEST NO:- TP-04

PROJECT:- IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM IN  
NASHIK TO PREVENT IN RIVER GODAVARI BASED ON  
PPP/HAM MODEL.

LOCATION - AGARTAKLI 97 MLD STP.

CONSULTANT :- CS TECH

CLIENT:- NASHIK MUNICIPAL CORPORATION.

Ic of dial gauge:- 0.01mm

Type of Test:- IVPLT

Design Load :- 147 MT

Test Load :- 367.5 MT

Mixed Design :- M25

Pile Diameter : - 600mm

Page:-2

Ram Area :- 2251cm<sup>2</sup>

Date of Casting :- 05-09-2025.

Pile Length :- 7.5 mtr

DATE (Hrs)	TIME	PRESSURE GAUGE READING kg/cm <sup>2</sup>	LOAD IN MT	Dial Gauge				AVERAGE SETTLEMENT IN MM	REMARK
				Reading 1	Reading 2	Reading 3	Reading 4		
<b>LOADING</b>									
01-11-2025	22.46	75.00	191.32	3.32	3.99	3.90	3.95	3.79	
	23.00			3.89	4.07	3.98	4.05	4.00	
	23.15			3.95	4.12	4.11	4.09	4.07	
	23.30			3.95	4.14	4.14	4.11	4.09	
	23.45			3.95	4.15	4.16	4.12	4.10	
	23.46	90.00	229.59	5.10	5.91	5.47	5.88	5.59	
02-11-2025	24.00			5.18	5.99	5.49	5.98	5.66	
	24.15			5.20	6.03	6.40	6.00	5.91	
	24.30			5.22	6.05	6.10	6.01	5.85	
	24.45			5.23	6.07	6.11	6.04	5.86	
	24.46	105.00	267.85	6.89	7.70	7.78	7.69	7.52	
	1.00			6.95	7.74	7.81	7.73	7.56	
	1.15			6.97	7.76	7.84	7.75	7.58	
	1.30			6.99	7.78	7.88	7.77	7.61	
	1.45			6.99	7.78	7.89	7.78	7.61	
	1.46	120.00	306.12	7.89	8.65	8.30	8.36	8.30	
	2.00			7.91	8.68	8.34	8.40	8.33	
	2.15			7.92	8.70	8.36	8.41	8.35	
	2.30			7.94	8.71	8.37	8.43	8.36	
	2.45			7.95	8.73	8.40	8.45	8.38	
	2.46	135.00	344.65	8.55	9.41	9.29	9.44	9.17	
	3.00			8.60	9.43	9.32	9.46	9.20	
	3.15			8.61	9.44	9.35	9.47	9.22	
	3.30			8.63	9.45	9.37	9.47	9.23	
	3.45			8.63	9.45	9.37	9.48	9.23	



**QCC LAB SOLUTIONS Pvt Ltd, Mumbai.**

RECORD OF PILE LOAD TEST NO:- TP-04

PROJECT:- IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM IN NASHIK TO PREVENT IN RIVER GODAVARI BASED ON

PPP/HAM MODEL.

LOCATION - AGARTAKLI 97 MLD STP.

CONSULTANT :- CS TECH

CLIENT:- NASHIK MUNICIPAL CORPORATION.

Page:-3

Ram Area :- 2251cm<sup>2</sup>

Date of Casting :- 05-09-2025.

Pile Length :- 7.5 mtr

Ic of dial gauge:- 0.01mm

Type of Test:- IVPLT

Design Load :- 147 MT

Test Load :- 367.5 MT

Mixed Design :- M25

Pile Diameter :- 600mm

DATE (Hrs)	TIME (Hrs)	PRESSURE GAUGE READING kg/cm <sup>2</sup>	LOAD IN MT	Dial Gauge				AVERAGE SETTLEMENT IN MM	REMARK
				Reading 1	Reading 2	Reading 3	Reading 4		
<b>HOLDING</b>									
02-11-2025	3.46	150.00	382.65	8.99	10.00	9.98	9.97	9.76	
	4.46			9.08	10.08	10.01	10.00	9.80	
	5.46			9.08	10.08	10.01	10.01	9.80	
	6.46			9.08	10.08	10.01	10.01	9.80	
	4.46			9.10	10.09	10.03	10.04	9.82	
	8.46			9.10	10.09	10.03	10.04	9.82	
	9.46			9.10	10.09	10.05	10.04	9.82	
	10.46			9.11	10.12	10.08	10.07	9.85	
	11.46			9.11	10.12	10.09	10.07	9.85	
	12.46			9.11	10.12	10.08	10.07	9.85	
	13.46			9.11	10.12	10.08	10.07	9.85	
	14.46			9.13	10.15	10.08	10.08	9.86	
	15.46			9.14	10.17	10.11	10.09	9.88	
	16.46			9.14	10.17	10.13	10.09	9.88	
	17.46			9.14	10.17	10.13	10.09	9.88	
	18.46			9.14	10.17	10.13	10.09	9.88	
	19.46			9.14	10.17	10.13	10.09	9.88	
	20.46			9.14	10.17	10.13	10.09	9.88	
	21.46			9.14	10.17	10.13	10.09	9.88	
	22.46			9.14	10.17	10.13	10.09	9.88	
	23.46			9.14	10.17	10.13	10.09	9.88	
03-11-2025	0.46			9.14	10.17	10.13	10.09	9.88	
	1.46			9.14	10.17	10.13	10.09	9.88	
	2.46			9.14	10.17	10.13	10.09	9.88	
	3.46			9.14	10.17	10.13	10.09	9.88	
	4.46			9.14	10.17	10.13	10.09	9.88	



**QCC LAB SOLUTIONS Pvt Ltd, Mumbai.**

RECORD OF FOOTING LOAD TEST NO:- TP-04  
**PROJECT:- IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM IN NASHIK TO PREVENT IN RIVER GODAVARI BASED ON PPP/HAM MODEL.**  
**LOCATION - AGARTAKLI 97 MLD STP.**  
**CONSULTANT :- CS TECH**  
**CLIENT:- NASHIK MUNICIPAL CORPORATION.**

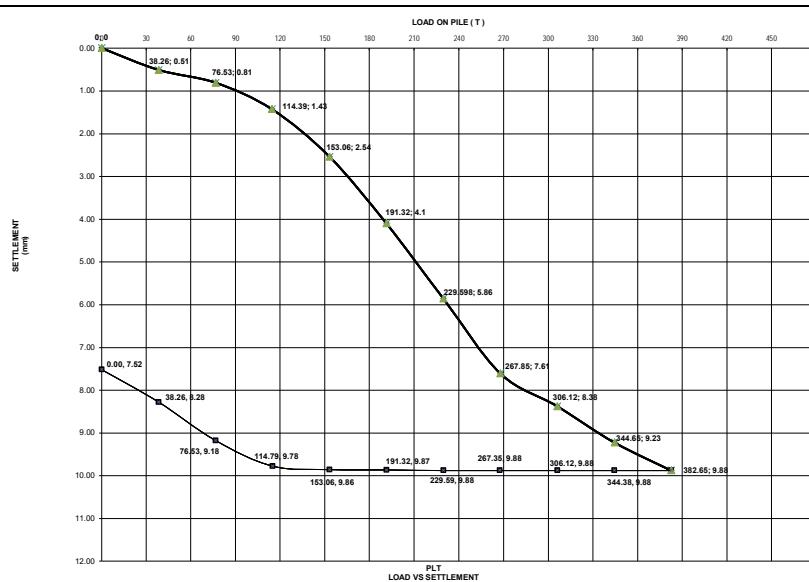
Ic of dial gauge:- 0.01mm  
Type of Test:- IVPLT  
Design Load :- 147 MT  
Test Load :- 367.5 MT  
Mixed Design :- M25  
Pile Diameter : - 600mm

Page: 4  
Ram Area :- 2251cm<sup>2</sup>  
Date of Casting :- 05-09-2025.  
Pile Length :- 7.5 mtr

DATE (Hrs)	TIME	PRESSURE GAUGE READING kg/cm <sup>2</sup>	LOAD IN MT	Dial Gauge				AVERAGE SETTLEMENT IN MM	REMARK
				Reading 1	Reading 2	Reading 3	Reading 4		
<b>UNLOADING</b>									
03.11.2025	4.45	135.00	344.38	9.14	10.17	10.13	10.09	9.88	
	4.50			9.14	10.17	10.13	10.09	9.88	
	4.55			9.14	10.17	10.13	10.09	9.88	
	4.56	120.00	306.12	9.14	10.17	10.13	10.09	9.88	
	5.00			9.14	10.17	10.13	10.09	9.88	
	5.05			9.14	10.17	10.13	10.09	9.88	
	5.06	105.00	267.35	9.14	10.17	10.13	10.09	9.88	
	5.10			9.14	10.17	10.13	10.09	9.88	
	5.15			9.14	10.17	10.13	10.09	9.88	
	5.16	90.00	229.59	9.14	10.17	10.13	10.09	9.88	
	5.20			9.14	10.17	10.13	10.09	9.88	
	5.25			9.14	10.17	10.13	10.09	9.88	
	5.26	75.00	191.32	9.12	10.16	10.12	10.08	9.87	
	5.30			9.12	10.16	10.12	10.08	9.87	
	5.35			9.12	10.16	10.12	10.08	9.87	
	5.36	60.00	153.06	9.11	10.14	10.11	10.07	9.86	
	5.40			9.11	10.14	10.11	10.07	9.86	
	5.45			9.11	10.14	10.12	10.07	9.86	
	5.46	45.00	114.79	9.05	10.00	10.07	10.04	9.79	
	5.50			9.03	10.06	10.02	10.01	9.78	
	5.55			9.03	10.06	10.02	10.01	9.78	
	5.56	30.00	76.53	8.80	9.30	9.32	9.58	9.25	
	6.00			8.78	9.26	9.29	9.56	9.22	
	6.05			8.76	9.21	9.26	9.50	9.18	
	6.06	15.00	38.26	7.85	8.26	8.50	8.42	8.26	
	6.10			7.80	8.21	8.46	8.38	8.21	
	6.15			7.78	8.17	8.40	8.75	8.28	
	6.16	0.00	0.00	6.97	7.87	7.45	7.79	7.52	

**QCC LAB SOLUTIONS Pvt Ltd, Mumbai.**

**RECORD OF FOOTING LOAD TEST NO:- TP-04**  
**PROJECT:- IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM**  
**IN NASHIK TO PREVENT IN RIVER GODAVARI BASED ON**  
**PPP/HAM MODEL.**  
**LOCATION :- AGARTAKLI 97 MLD STP.**  
**CONSULTANT :- CS TECH**  
**CLIENT:- NASHIK MUNICIPAL CORPORATION.**



Maximum Settlement at 382.65T: 9.88 mm

Total Rebound : 2.36 mm

Net Settlement: 7.52 mm

NMC/NEL/QCC.

NMC/MEL/QCC

NMC/VEL/QCC.

**QCC LAB SOLUTIONS Pvt Ltd, Mumbai.**  
**NMC/VEL/QCC.**

# **FIELD READINGS**



**QCC LAB SOLUTIONS PVT LTD, Mumbai.**

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E-mail:-calibration@qcclabsolutions.com

Website:- www.qcclabsolutions.com



**ZedGeo Systems Private Limited., Mumbai**

RECORD OF PILE LOAD TEST NO:-

PROJECT - KWW MPL

LOCATION - AGARTAKLI 97MLD STP

CONTRACTOR - VEL

CLIENTS NAME - NASHIK MUNICIPAL CORPORATION

L.C OF DIAL GAUGE:- 0.01mm  
Type of Test:- Initial load test  
Design load on pile:- 167.17 m<sup>t</sup>  
Test Load :- 367.52 m<sup>t</sup>  
Mixed Design :- M25  
Pile Diameter .. 600 mm Ø

Page:- 225.110  
Ram Area :- 225.110  
Date of Casting :- 5/9/2025  
Pile Depth :- 7.5m

DATE	TIME	PRESSURE	LOAD IN MT	INITIAL PILE LOAD TEST						REMARK	
				Reading				Average settlement	SIGNATURE		
(Hrs)	Gauge Reading kg/cm <sup>2</sup>	Reading 1	Reading 2	Reading 3	Reading 4	Test Pile					
11/11/25		0	0	0	0	0					
	18.45	15	38.86	0.36	0.37	0.28	0.35	0.365			
	19.00			0.41	0.42	0.44	0.45	0.43			
	19.15			0.45	0.46	0.50	0.51	0.48			
	19.30			0.48	0.50	0.52	0.52	0.5			
	19.45			0.47	0.52	0.53	0.53	0.51			
	19.46	30	76.53	0.62	0.61	0.70	0.71	0.71			
	20.00			0.65	0.87	0.76	0.75	0.75			
	20.15			0.67	0.90	0.80	0.79	0.79			
	20.30			0.68	0.92	0.81	0.81	0.80			
	20.45			0.68	0.92	0.82	0.83	0.81			
	20.46	45	114.29	0.01	1.45	1.40	1.51	1.34			
	21.00			1.06	1.50	1.44	1.53	1.38			
	21.15			1.07	1.52	1.46	1.55	1.4			
	21.30			1.09	1.52	1.48	1.56	1.41			
	21.45			1.11	1.53	1.49	1.57	1.42			
	21.46	60	153.96	2.10	2.41	2.48	2.60	2.39			
	22.00			2.15	2.47	2.55	2.64	2.45			
	22.15			2.18	2.50	2.58	2.67	2.48			
	22.30			2.21	2.55	2.60	2.70	2.51			
	22.45			2.23	2.57	2.62	2.72	2.53			


**ZedGeo Systems Private Limited., Mumbai**

RECORD OF PILE LOAD TEST NO:-

PROJECT :-

LOCATION :-

CONTRACTOR:-

CLIENTS NAME:-

L.C OF DIAL GAUGE:-

Type of Test:-

Design load on pile:-

Test Load :-

Mixed Design :-

Pile Diameter :-

Pages (2)

Ram Area :-

Date of Casting :-

Pile Depth :-

## INITIAL PILE LOAD TEST

REMARK

DATE	TIME	PRESSURE	LOAD IN MT	Reading				Average settlement Test Pile	SIGNATURE	REMARK
				Reading 1	Reading 2	Reading 3	Reading 4			
1/11/25	(Hrs)	GAUGE READING kg/cm <sup>2</sup>		3.82	3.99	3.90	3.95	3.91		
				3.89	4.07	3.98	4.05	3.99		
				3.95	4.12	4.11	4.09	4.06		
				3.95	4.14	4.14	4.11	4.08		
				3.95	4.15	4.16	4.12	4.09		
				5.10	5.91	5.97	5.88	5.71		
				5.18	5.99	5.99	5.98	5.78		
				5.20	6.03	6.04	6.00	5.81		
				5.22	6.05	6.10	6.01	5.84		
				5.23	6.07	6.11	6.04	5.86		
2/11/25	105	267.85-6.89	7.70	7.78	7.69	7.51				
				6.95	7.74	7.81	7.73	7.55		
				6.97	7.76	7.84	7.75	7.58		
				6.99	7.78	7.88	7.77	7.60		
				6.99	7.78	7.89	7.78	7.61		
				8.65	8.30	8.36	8.3			
				8.91	8.68	8.54	8.40	8.33		
				8.92	8.70	8.56	8.41	8.34		
				8.94	8.71	8.57	8.43	8.36		
				8.95	8.73	8.40	8.45	8.38		



**ZedGeo Systems Private Limited., Mumbai**

RECORD OF PILE LOAD TEST NO. -

PROJECT:-

LOCATION :-

CONTRACTOR:-

CLIENTS NAME:-

L.C OF DIAL GAUGE:-

Type of Test:-

Design load on pile:-

Test Load :-

Mixed Design :-

Pile Diameter :-

Page 3

Ram Area :-

Date of Casting :-

Pile Depth :-

INITIAL PILE LOAD TEST

DATE 2/11/25	TIME (Hrs)	PRESSURE GAUGE READING kg/cm <sup>2</sup>	LOAD IN MT	Reading				Average settlement Test Pile	SIGNATURE		REMARK
				Reading 1	Reading 2	Reading 3	Reading 4				
	2.46	135.	344.38	8.55	9.41	9.29	9.44	9.17			
	3.00			8.60	9.48	9.32	9.46	9.20			
	3.15			8.61	9.44	9.35	9.47	9.21			
	3.30			8.63	9.45	9.37	9.47	9.23			
	3.45			8.63	9.45	9.37	9.47	9.23			
	3.46	150	382.65	8.99	9.00	9.98	9.97	9.73			
	4.46			9.08	10.08	10.01	10.00	9.79			
	5.46			9.08	10.08	10.01	10.01	9.795			
	6.46			9.08	10.08	10.01	10.01	9.795			
	7.46			9.10	10.09	10.03	10.04	9.81			
	8.46			9.10	10.09	10.03	10.04	9.82			
	9.46			9.10	10.09	10.05	10.04	9.82			
	10.46			9.11	10.12	10.08	10.07	9.84			
	11.46			9.11	10.12	10.08	10.07	9.84			
	12.46			9.11	10.12	10.08	10.07	9.84			
	13.46			9.11	10.12	10.08	10.07	9.84			
	14.46			9.13	10.15	10.11	10.08	9.86			
	15.46			9.14	10.17	10.13	10.09	9.88			
	16.46			9.14	10.17	10.13	10.09	9.88			
	17.46			9.14	10.17	10.13	10.09	9.88			
	18.46			9.14	10.17	10.13	10.09	9.88			
	19.46			9.14	10.17	10.13	10.09	9.88			



**ZedGeo Systems Private Limited., Mumbai**

RECORD OF PILE LOAD TEST NO:-

PROJECT:-

LOCATION :-

CONTRACTOR:-

CLIENTS NAME:-

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 (4)

**INITIAL PILE LOAD TEST**

DATE	TIME	PRESSURE (Hrs)	GAUGE READING kg/cm <sup>2</sup>	LOAD IN MT	Reading				Average settlement Test Pile	REMARK
					Reading 1	Reading 2	Reading 3	Reading 4		
2/11/25	20.46				9.14	10.17	10.13	10.09	9.88	
	21.46				9.14	10.17	10.13	10.09	9.88	
	22.46				9.14	10.17	10.13	10.09	9.88	
	13.46				9.14	10.17	10.13	10.09	9.88	
3/11/25	0.46				9.14	10.17	10.13	10.09	9.88	
	1.46				9.14	10.17	10.13	10.09	9.88	
	2.46				9.14	10.17	10.13	10.09	9.88	
	3.46				9.14	10.17	10.13	10.09	9.88	
	4.46				9.14	10.17	10.13	10.09	9.88	
	4.45 +35	344.38			9.14	10.17	10.13	10.09	9.88	
	4.50				9.14	10.17	10.13	10.09	9.88	
	4.55				9.14	10.17	10.13	10.09	9.88	
	4.56 120	306.12			9.14	10.17	10.13	10.09	9.88	
	5.00				9.14	10.17	10.13	10.09	9.88	
	5.05				9.14	10.17	10.13	10.09	9.88	
	5.06 105	267.85			9.14	10.17	10.13	10.09	9.88	
	5.10				9.14	10.17	10.13	10.09	9.88	
	5.15				9.14	10.17	10.13	10.09	9.88	



## ZedGeo Systems Private Limited., Mumbai

RECORD OF PILE LOAD TEST NO:-

PROJECT:-

LOCATION :-

CONTRACTOR:-

CLIENTS NAME:-

L.C OF DIAL GAUGE:-

Type of Test:-

Design load on pile:-

Test Load :-

Mixed Design :-

Pile Diameter :-

Page:- 5

Ram Area :-

Date of Casting :-

Pile Depth :-

## INITIAL PILE LOAD TEST

DATE	TIME	PRESSURE	LOAD IN MT	Reading				Average settlement Test Pile	SIGNATURE			REMARK
				GAUGE (Hrs)	READING kg/cm <sup>2</sup>	Reading 1	Reading 2	Reading 3	Reading 4			
3/11/25			289.59									
	5.16	90	299.39	9.14	10.17	10.13	10.09	9.88				
	5.20			9.14	10.17	10.13	10.09	9.88				
	5.25			9.14	10.17	10.13	10.09	9.88				
	5.26	75	191.32	9.12	10.16	10.12	10.08	9.87				
	5.30			9.12	10.16	10.12	10.08	9.87				
	5.35			9.12	10.16	10.12	10.08	9.87				
	5.36	60	153.06	9.11	10.14	10.11	10.07	9.85				
	5.40			9.11	10.14	10.11	10.07	9.85				
	5.45			9.11	10.14	10.12	10.07	9.85				
	5.46	45	114.79	9.05	10.10	10.07	10.04	9.81				
	5.50			9.03	10.06	10.02	10.01	9.78				
	5.55			9.03	10.06	10.02	10.01	9.78				
	5.56	30	76.53	8.80	9.30	9.32	9.58	9.25				
	6.00			8.88	9.26	9.29	9.56	9.22				
	6.05			8.76	9.21	9.26	9.50	9.18				
	6.06	15	38.26	7.85	8.26	8.50	8.92	8.38				
	6.10			7.80	8.21	8.46	8.88	8.33				
	6.15			7.78	8.17	8.40	8.75	8.27				
	6.16	0	0	6.97	7.87	7.45	7.79	7.52				

# CALIBRATION CERTIFICATES



**QCC LAB SOLUTIONS Pvt Ltd, Mumbai.**

**Tel:- 9452200078,8369458583**

**E-mail:-calibration@qcclabsolutions.com**

**Website:- www.qcclabsolutions.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 requirement)	: 01/04/2026
<b>DETAILS OF UNIT UNDER CALIBRATION</b>	
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 Equipment 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	0.007	
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		
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 particuler item submitted for calibration .
3. The certificate shall not be reproduced except in full unless written permission for the publication of an approved abstract has been obtained from the technical manager of QCC lab solution Pvt. Ltd. Navi Mumbai.
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)



(Authorised Signatory)

Page 1 of 1

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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-2303-16031
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
<b>DETAILS OF UNIT UNDER CALIBRATION</b>	
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		
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	0.007	

### Remarks:

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3. The certificate shall not be reproduced exceptt 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 Mumbaiii.
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)



(Authorised Signatory)




# 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 requirement)	: 01/04/2026
<b>DETAILS OF UNIT UNDER CALIBRATION</b>	
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 Equipment 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		
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 particuler item submitted for calibration .
3. The certificate shall not be reproduced except in full unless written permission for the publication of an approved abstract has been obtained from the technical manager of QCC lab solution Pvt. Ltd. Navi Mumbai.
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)





(Authorised Signatory)




# 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 requirement)	: 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 Equipment 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		

### Remarks:

1. DUC stands for device under calibration.
2. The certificate shall refers only to the perticular item submitted for calibration .
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(Calibrated By)



(Authorised Signatory)