

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 Panchak 75 MLD STP-TP- 02)



CLIENT :- NMC.
PMC:- CS TECH

CONTRACTOR :- KUMBH WASTE WATER MANAGEMENT Pvt Ltd.



QCC LAB SOLUTIONS Pvt Ltd, Mumbai.

Tel:- 9452200078,8369458583

E-mail:-calibration@qcclabsolutions.com

Website:- www.qcclabsolutions.com

INITIAL STATIC VERTICAL PILE LOAD TEST ON 600MM DIA PILE

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(INITIAL TEST PILE Panchak 75 MLD STP.TP- 02)

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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: - Panchak 75 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 = 11.90m

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

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

The sequence of loading and unloading shall be as described below

1 jack of 1500T of Ram area = 2551cm².

So Effective Ram area is = 2551cm².

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/cm²

Table 1 – Load Sequence

Pressure Gauge (kg/cm²)	Load (MT)	Reading Time(Mins)
0	0	0
15	38.26	1,15,30,45,60 th minute
30	76.53	1,15,30,45,60 th minute
45	114.79	1,15,30,45,60 th minute
60	153.06	1,15,30,45,60 th minute
75	191.32	1,15,30,45,60 th minute
90	229.59	1,15,30,45,60 th minute
105	267.85	1,15,30,45,60 th minute
120	306.12	1,15,30,45,60 th minute
135	344.38	1,15,30,45,60 th 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 = 8.73mm.

Total Rebond = 3.53mm

The net settlement = 5.20mm

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.

08th Nov 2025

QCC LAB SOLUTIONS Pvt Ltd, Mumbai.



(Authorised Signatory)



READINGS AND GRAPH



QCC LAB SOLUTIONS Pvt Ltd, Mumbai.

Tel:- 9452200078,8369458583

E-mail:-calibration@qcclabsolutions.com

Website:- www.qcclabsolutions.com

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

RECORD OF FOOTING LOAD TEST NO:- TP-02

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

LOCATION - Panchak 75 MLD STP.

CONSULTANT :- CS TECH

CLIENT:- NASHIK MUNICIPAL CORPORATION.

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Ic of dial gauge:- 0.01mm Ram Area :- 2251cm²

Type of Test:- IVPLT

Date of Casting :- 15-08-2025.

Pile Length :- 11.90mtr

Design Load :- 147 MT

Test Load :- 367.5 MT

Mixed Design :- M25

Pile Diameter : - 600mm

DATE (Hrs)	TIME	PRESSURE GAUGE READING kg/cm ²	LOAD IN MT	Dial Gauge				AVERAGE SETTLEMENT IN MM	REMARK
				Reading 1	Reading 2	Reading 3	Reading 4		
LOADING									
27-10-2025	16.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	17.00	15.00	38.26	0.01	0.00	0.01	0.01	0.01	
	17.15			0.02	0.01	0.01	0.02	0.02	
	17.30			0.03	0.03	0.02	0.03	0.03	
	17.45			0.03	0.30	0.02	0.03	0.10	
	18.00			0.03	0.03	0.02	0.03	0.03	
	18.01	30.00	76.53	0.96	0.85	0.56	0.54	0.73	
	18.15			1.01	1.00	0.60	0.61	0.81	
	18.30			1.03	1.02	0.62	0.62	0.82	
	18.45			1.04	1.05	0.63	0.63	0.84	
	19.00			1.04	1.06	0.64	0.63	0.84	
	19.01	45.00	114.79	1.30	1.31	0.80	0.91	1.08	
	19.15			1.33	1.34	0.84	0.95	1.12	
	19.30			1.35	1.35	0.86	0.97	1.13	
	19.45			1.35	1.37	0.87	0.98	1.14	
	20.00			1.35	1.37	0.90	0.99	1.15	
	20.01	60.00	153.06	1.76	1.88	1.10	1.15	1.47	
	20.15			1.78	1.90	1.12	1.18	1.50	
	20.30			1.85	1.94	1.15	1.20	1.54	
	20.45			1.86	1.97	1.18	1.23	1.56	
	21.00			1.90	1.98	1.24	1.30	1.61	



QCC LAB SOLUTIONS Pvt Ltd, Mumbai.

RECORD OF FOOTING LOAD TEST NO:- TP-02

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:-2

Ram Area :- 2251cm²

Date of Casting :- 15-08-2025.

Pile Length :- 11.90mtr

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	PRESSURE GAUGE READING kg/cm ²	LOAD IN MT	Dial Gauge				AVERAGE SETTLEMENT IN MM	REMARK
				Reading 1	Reading 2	Reading 3	Reading 4		
LOADING									
27-10-2025	21.01	75.00	191.32	2.30	2.36	1.95	1.98	2.15	
	21.15			2.35	2.40	1.99	2.00	2.19	
	21.30			2.47	2.51	2.07	2.11	2.29	
	21.45			2.52	2.60	2.12	2.16	2.35	
	22.00			2.58	2.65	2.15	2.20	2.40	
	22.01	90.00	229.59	3.46	3.71	3.10	2.99	3.32	
	22.15			3.58	3.82	3.18	4.13	3.68	
	22.30			3.71	3.88	3.24	4.19	3.76	
	22.45			3.75	3.90	3.31	4.22	3.80	
	23.00			3.77	3.92	3.33	4.24	3.82	
	23.01	105.00	267.85	4.65	4.71	4.20	4.26	4.46	
	23.15			4.68	4.77	4.25	4.28	4.50	
	23.30			4.70	4.81	4.27	4.39	4.54	
	23.45			4.72	4.82	4.30	4.39	4.56	
28-10-2025	0.00			4.72	4.83	4.34	4.39	4.57	
	1.01	120.00	306.00	5.57	5.76	5.61	5.77	5.68	
	1.15			5.60	5.80	5.65	5.82	5.72	
	1.30			5.62	5.84	5.67	5.85	5.75	
	1.45			5.65	5.86	5.70	5.88	5.77	
	2.00			5.66	5.88	5.72	5.90	5.79	
	2.01	135.00	344.38	6.75	6.92	6.85	6.94	6.87	
	2.15			6.80	6.96	6.89	6.99	6.91	
	2.30			6.85	7.00	6.93	7.03	6.95	
	2.45			6.84	7.02	6.94	7.05	6.96	
	3.00			6.88	7.04	6.96	7.07	6.99	



QCC LAB SOLUTIONS Pvt Ltd, Mumbai.

RECORD OF FOOTING LOAD TEST NO:- TP-02

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

LOCATION - Panchak 75 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

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Ram Area :- 2251cm²

Date of Casting :- 15-08-2025.

Pile Length :- 11.90mtr

DATE (Hrs)	TIME (Hrs)	PRESSURE GAUGE READING kg/cm ²	LOAD IN MT	Dial Gauge				AVERAGE SETTLEMENT IN MM	REMARK
				Reading 1	Reading 2	Reading 3	Reading 4		
HOLDING									
28-10-2025	3.01	150.00	382.65	7.76	7.49	7.69	7.90	7.76	
	4.01			7.91	8.58	7.88	8.47	8.22	
	5.01			7.95	8.63	7.94	8.51	8.26	
	6.01			7.95	8.70	8.08	8.71	8.36	
	7.01			7.95	8.85	8.25	8.92	8.49	
	8.01			7.95	8.85	8.25	8.92	8.49	
	9.01			7.96	8.85	8.27	8.93	8.50	
	10.01			8.02	8.87	8.38	8.98	8.56	
	11.01			8.08	8.90	8.40	9.09	8.62	
	12.01			8.12	8.95	8.46	9.12	8.66	
	13.01			8.16	8.99	8.51	9.18	8.71	
	14.01			8.18	8.99	8.55	9.18	8.73	
	15.01			8.18	8.99	8.55	9.18	8.73	
	16.01			8.18	8.99	8.55	9.18	8.73	
	17.01			8.18	8.99	8.55	9.18	8.73	
	18.01			8.18	8.99	8.55	9.18	8.73	
	19.01			8.18	8.99	8.55	9.18	8.73	
	20.01			8.18	8.99	8.55	9.18	8.73	
	21.01			8.18	8.99	8.55	9.18	8.73	
	22.01			8.18	8.99	8.55	9.18	8.73	
	23.01			8.18	8.99	8.55	9.18	8.73	
29-10-2025	0.00			8.18	8.99	8.55	9.18	8.73	
	1.01			8.18	8.99	8.55	9.18	8.73	
	2.01			8.18	8.99	8.55	9.18	8.73	
	3.01			8.18	8.99	8.55	9.18	8.73	



QCC LAB SOLUTIONS Pvt Ltd, Mumbai.

RECORD OF FOOTING LOAD TEST NO:- TP-02

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

LOCATION - Panchak 75 MLD STP.

CONSULTANT :- CS TECH

CLIENT:- NASHIK MUNICIPAL CORPORATION.

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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

Ram Area :- 2251cm²

Date of Casting :- 15-08-2025.

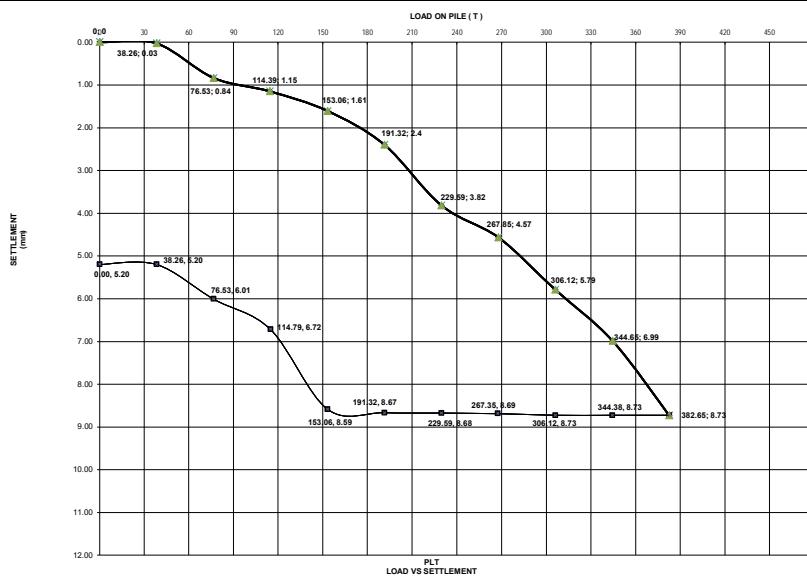
Pile Length :- 11.90mtr

DATE (Hrs)	TIME	PRESSURE GAUGE READING kg/cm ²	LOAD IN MT	Dial Gauge				AVERAGE SETTLEMENT IN MM	REMARK
				Reading 1	Reading 2	Reading 3	Reading 4		
UNLOADING									
29.10.2025	3.01	135.00	344.36	8.18	8.99	8.55	9.18	8.73	
	3.05			8.18	8.99	8.55	9.18	8.73	
	3.10			8.18	8.99	8.55	9.18	8.73	
	3.11	120.00	306.12	8.18	8.99	8.55	9.18	8.73	
	3.15			8.18	8.99	8.55	9.18	8.73	
	3.20			8.18	8.99	8.55	9.18	8.73	
	3.21	105.00	267.85	8.15	8.89	8.54	9.17	8.69	
	3.25			8.15	8.89	8.54	9.17	8.69	
	3.30			8.15	8.89	8.54	9.17	8.69	
	3.31	90.00	229.59	8.14	8.89	8.53	9.16	8.68	
	3.35			8.14	8.89	8.53	9.16	8.68	
	3.40			8.14	8.89	8.53	9.16	8.68	
	3.41	75.00	191.32	8.13	8.88	8.51	9.15	8.67	
	3.45			8.13	8.88	8.51	9.15	8.67	
	3.50			8.13	8.88	8.51	9.15	8.67	
	3.51	60.00	153.06	8.08	8.78	8.46	9.11	8.61	
	3.55			8.06	8.76	8.45	9.09	8.59	
	4.00			8.06	8.76	8.45	9.09	8.59	
	4.01	45.00	114.79	6.20	6.90	6.70	7.40	6.80	
	4.05			6.15	6.82	6.66	7.35	6.75	
	4.10			6.12	6.80	6.61	7.34	6.72	
	4.11	30.00	76.35	5.08	6.95	6.15	7.05	6.31	
	4.15			5.06	6.91	6.12	6.04	6.03	
	4.20			5.04	6.89	6.10	6.02	6.01	
	4.21	15.00	38.26	4.64	5.55	4.96	5.67	5.21	
	4.25			4.64	5.55	4.96	5.67	5.21	
	4.30			4.63	5.55	4.96	5.67	5.20	
	4.31	0.00	0.00	4.63	5.55	4.96	5.67	5.20	

QCC LAB SOLUTIONS Pvt Ltd, Mumbai.

RECORD OF FOOTING LOAD TEST NO:- TP-02
PROJECT:- IMPROVEMENT OF SEWAGE MANAGEMENT SYSTEM
IN NASHIK TO PREVENT IN RIVER GODAVARI BASED ON
PPP/HAM MODEL.
LOCATION :- Panchak 75 MLD STP.
CONSULTANT :- CS TECH
CLIENT:- NASHIK MUNICIPAL CORPORATION.

QCC



Maximum Settlement at 382.65T: 8.73 mm

Total Rebound : 3.53 mm

Net Settlement : 5.2 mm

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

NMC/NEL/QCC.

FIELD READINGS



QCC LAB SOLUTIONS Pvt Ltd, Mumbai.

Tel:- 9452200078,8369458583

E-mail:-calibration@qcclabsolutions.com

Website:- www.qcclabsolutions.com

ZedGeo Systems Private Limited., Mumbai RECORD OF PILE LOAD TEST NO - PROJECT : Improvement of sewage management system in Nashik City LOCATION : Panchak STP 75MLD CONTRACTOR : NMC CLIENTS NAME : NMC									
L.C. OF DIAL GAUGE :-	0.01 mm	Type of Test :-	Static load test	Ram Area :-	2551.17 cm ²	Date of Casting :-	15.08.2015	Pile Depth :-	11.90 Meters.
Design load on pile :-	147MT	Test Load :-	867.5MT	Mixed Design :-	M25	Pile Diameter :-	600mm		
INITIAL PILE LOAD TEST									
DATE	TIME	PRESSURE	LOAD IN MT	GAUGE READING kg/cm ²	Reading 1	Reading 2	Reading 3	Reading 4	Average settlement
(Hrs)									Test Pile
27/10/25									
									SIGNATURE
					ZED	VEL	PMC		REMARK
17.00	15	38.26	0.01	0.00	0.01	0.01	0.01	0.007	?
17.15			0.02	0.01	0.01	0.02	0.02	0.018	?
17.30			0.03	0.03	0.02	0.03	0.03	0.027	?
17.45			0.03	0.03	0.02	0.03	0.03	0.027	?
18.00			0.03	0.03	0.02	0.03	0.03	0.027	?
18.01	30	2653	0.96	0.85	0.56	0.54	0.72		Mr. J.
18.15			1.01	1.00	0.60	0.61	0.80		Mr. J.
18.30			1.03	1.02	0.62	0.62	0.82		Mr. J.
18.45			1.04	1.05	0.63	0.63	0.83		Mr. J.
19.00			0.04	1.06	0.64	0.63	0.84		Mr. J.
19.01	45	26.58	1.30	1.31	0.80	0.91	1.08		Mr. J.
19.15			1.33	1.34	0.84	0.95	1.11		Mr. J.
19.30			1.35	1.35	0.86	0.97	1.13		Mr. J.
19.45			1.35	1.27	0.87	0.98	1.14		Mr. J.
20.00			1.35	1.37	0.90	0.99	1.15		Mr. J.
20.01	60	153.06	1.76	1.88	1.10	1.15	1.47		Mr. J.
20.15			1.78	1.90	1.12	1.18			Mr. J.
20.30			1.85	1.94	1.15	1.20			Mr. J.
20.45			1.86	1.97	1.18	1.23			Mr. J.
21.00			1.90	1.98	1.24	1.30	1.59		Mr. J.

ZedGeo Systems Private Limited., Mumbai								Part (2)	
RECORD OF PILE LOAD TEST NO. -				L.C. OF DIAL GAUGE:-	Type of Test :-	Ram Area :-	Date of Casting :-		
PROJECT :-				Design load on pile:-		Pile Depth :-	Pile Depth :-		
LOCATION :-				Test Load :-	Mixed Design :-	Pile Diameter :-			
CONTRACTOR:-				Pile Diameter :-		REMARK			
CLIENTS NAME:-				INITIAL PILE LOAD TEST		SIGNATURE			
DATE	TIME	PRESSURE	LOAD IN MT	Reading		Average settlement	TEST PILE		
		GAUGE READING (kN/cm²)		Reading 1	Reading 2	Reading 3	Reading 4		
27/10/25	21.01	75	191.32	2.30	2.76	1.95	1.98	2.14	
	21.15			2.25	2.40	1.99	2.00	2.18	
	21.30			2.47	2.51	2.07	2.11	2.29	
	21.45			2.52	2.60	2.12	2.16	2.35	
	22.00			2.58	2.65	2.15	2.20	2.46	
	22.01	90	229.59	3.46	3.71	3.10	2.99	3.31	
	22.15			3.58	3.82	3.18	4.13	3.67	
	22.30			3.71	3.88	3.24	4.19	3.75	
	22.45			3.75	3.90	3.31	4.22	3.79	
	23.00			3.77	3.92	3.33	4.24	3.81	
28/10/25	23.01	105	267.85	4.65	4.71	4.20	4.26	4.45	
	23.15			4.68	4.77	4.25	4.28	4.49	
	23.30			4.70	4.81	4.27	4.39	4.54	
	23.45			4.72	4.82	4.30	4.39	4.55	
	24.00	00	306	4.72	4.83	4.34	4.39	4.57	
	24.21	120							
	1.01	120	306	5.57	5.76	5.61	5.77	5.67	
	1.15			5.60	5.80	5.65	5.82	5.71	
	1.30			5.62	5.84	5.67	5.85	5.74	
	1.45			5.65	5.86	5.70	5.88	5.77	
	2.00			5.66	5.88	5.72	5.90	5.79	



ZedGeo Systems Private Limited., Mumbai									
RECORD OF PILE LOAD TEST NO. -									
PROJECT :-				L.C OF DIAL GAUGES:-				Page (3)	
LOCATION :-				Type of Test:-				Ram Area :-	
CONTRACTOR:-				Design load on pile:-				Date of Casting :-	
CLIENTS NAME:-				Test Load :-				Pile Depth :-	
INITIAL PILE LOAD TEST									
DATE 28/10/25	TIME (Hrs)	PRESSURE kg/cm ²	LOAD IN MT	Reading				Average settlement Test Pile	REMARK
				1	2	3	4		
2.01	135.	3844.38	6.75	6.92	6.85	6.94	6.86		
2.05			6.80	6.96	6.89	6.99	6.91		
2.30			6.85	7.00	6.93	7.03	6.95	<i>Mud</i>	
2.45			6.87	7.02	6.94	7.05	6.97		
3.00			6.88	7.04	6.96	7.07	6.98		
3.01	150	3820.65	7.76	7.99	7.69	7.90	7.89	<i>Mud</i>	
4.01			7.91	8.58	7.88	8.47	8.21		
5.01			7.95	8.63	7.94	8.51	8.25	<i>Mud</i>	
6.01			7.95	8.70	8.08	8.71	8.36		
7.01			7.95	8.85	8.25	8.92	8.49		
8.01			7.95	8.85	8.25	8.92	8.49		
9.01			7.96	8.85	8.27	8.93	8.50	<i>Mud</i>	
10.01			8.02	8.87	8.38	8.98	8.56		
11.01			8.08	8.90	8.40	9.09	8.61		
12.01			8.12	8.95	8.46	9.12	8.66		
13.01			8.16	8.99	8.51	9.18	8.71	<i>Mud</i>	
14.01			8.18	8.99	8.55	9.18	8.72	<i>Mud</i>	
15.01			8.18	8.99	8.55	9.18	8.72	<i>Mud</i>	
16.01			8.18	8.99	8.55	9.18	8.72		
17.01			8.18	8.99	8.55	9.18	8.72		
18.01			8.18	8.99	8.55	9.18	8.72	<i>Mud</i>	
19.01			8.18	8.99	8.55	9.18	8.72		

ZedGeo Systems Private Limited., Mumbai									
RECORD OF PILE LOAD TEST NO. -				L.G OF DIAL GAUGE:-		Ram Area :-			
PROJECT :-				Type of Test :-		Date of Casting :-			
LOCATION :-				Design Load on pile:-		Pile Depth :-			
CONTRACTOR:-				Test Load :-		Pile Diameter :-			
CLIENTS NAME:-				Mixed Design :-		INITIAL PILE LOAD TEST			
DATE	TIME	PRESSURE kg/cm ²	LOAD IN MT	Reading				REMARK	
		(hrs)		Reading 1	Reading 2	Reading 3	Reading 4	Average settlement Test Pile	SIGNATURE
28/10/25				8.18	8.99	8.55	9.18	8.72	ZED VEL PMC
	20.01			8.18	8.99	8.55	9.18	8.72	Maf
	21.01			8.18	8.99	8.55	9.18	8.72	
	22.01			8.18	8.99	8.55	9.18	8.72	
	23.01			8.18	8.99	8.55	9.18	8.72	
29/10/25	00.00			8.18	8.99	8.55	9.18	8.72	
	1.01			8.18	8.99	8.55	9.18	8.72	
	2.01			8.18	8.99	8.55	9.18	8.72	Maf
	3.01			8.18	8.99	8.55	9.18	8.72	
	3.02	1335	3449.36	8.18	8.99	8.55	9.18	8.72	
	3.05			8.18	8.99	8.55	9.18	8.72	Maf
	3.10			8.18	8.99	8.55	9.18	8.72	
	3.11	120	3060.12	8.18	8.99	8.55	9.18	8.72	
	3.15			8.18	8.99	8.55	9.18	8.72	
	3.20			8.18	8.99	8.55	9.18	8.72	Maf
	3.21	105	267.85	8.18	8.89	8.54	9.17	8.78	
	3.25			8.15	8.89	8.54	9.17	8.68	
	3.30			8.15	8.89	8.54	9.17	8.68	Maf

ZedGeo Systems Private Limited., Mumbai RECORD OF PILE LOAD TEST NO. -										Page No. (5)
PROJECT -				L.C OF DIAL GAUGE -			Date of Casting -			Ram Area -
LOCATION -				Type of Test						Pile Depth -
CONTRACTOR:-				Design Load on pile:-			Pile Diameter :-			
CLIENTS NAME:-				Test Load :-			Mixed Design :-			
DATE	TIME	PRESSURE	LOAD IN MT	INITIAL PILE LOAD TEST				SIGNATURE		
				Reading	1	2	3	4	Average settlement	
		GAUGE READING kg/cm ²	(Hrs)						Text Pile	ZED VEL PMC
29/10/25										
	3.31	40	229.59	8.14	8.89	8.53	9.16	8.68		
	3.35			8.14	8.89	8.53	9.16	8.68		Mr.
	3.40			8.14	8.89	8.53	9.16	8.68		
	3.41	75	199.32	8.13	8.88	8.51	9.15	8.66		
	3.45			8.13	8.88	8.51	9.15	8.66		
	3.50			8.13	8.88	8.51	9.15	8.66		Mr.
	3.51	60	153.06	8.08	8.78	8.46	9.11	8.60		
	3.55			8.06	8.76	8.45	9.09	8.59		
	4.00			8.06	8.76	8.45	9.09	8.59		
	4.01	45	114.79	6.20	6.90	6.70	7.40	6.8		
	4.05			6.15	6.82	6.66	7.35	6.74		
	4.10			6.12	6.80	6.61	7.34	6.71		
	4.11	30	76.53	5.08	6.95	6.15	7.05	6.30		
	4.15			5.06	6.91	6.12	6.04	6.032		Mr.
	4.20			5.04	6.89	6.10	6.02	6.012		
	4.21	15.	38.26	4.64	5.55	5.196	5.87	5.20		
	4.25			4.64	5.55	4.96	5.67	5.20		
	4.30			4.63	5.55	4.96	5.67	5.20		
	4.31	0	0	4.63	5.55	4.96	5.67	5.20		

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
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 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-2303-16031
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		
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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2. The certificate shall refers only to the particuler 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)



(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
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 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.
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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)



(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.
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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)



(Authorised Signatory)