

## TEST REPORT

**ISSUED TO: M/S. LANDCARE REALITY LLP**

 AT CTS NO.657, Survey No.17, Safed Pool, Andheri Kurla Road  
 Village Mohili, L Ward, Mumbai, Maharashtra

**REPORT NO.** : UT/ELS/REPORT/C-083/01-2024  
**ISSUE DATE** : 15/01/2024  
**YOUR REF.** : Work Order Letter  
**REF. DATE** : 14/10/2022

**SAMPLE PARTICULARS**

:

**AMBIENT AIR QUALITY MONITORING**
**Sampling Plan Ref. No.:** C-36/12-2023  
**Sampling Procedure** : UT/LQMS/SOP/AA01A  
**Sample Registration Date** : 31/12/2023  
**Date of Sampling** : 30/12/2023 to 31/12/2023  
**Time of Sampling** : 09:30 Hrs. to 09:30 Hrs.  
**Analysis Starting Date** : 31/12/2023  
**Analysis Completion Date** : 03/01/2024  
**Sample Lab Code** : UT/ELS/C-195/12-2023  
**Ambient Air Temperature** : 24.2°C to 30.3°C

**Location Code** : 01

**Sample Location** : At Project Site  
 Co-ordinates: N19°5'50.67"; E72°53'3.07"

**Collected By** : ULTRA-TECH

**Height of Sampler** : 1.0 Meter

**Sampling Duration** : 24 Hours

**Relative Humidity** : 52.0 % to 65.0 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2001	14	µg/m <sup>3</sup>
2.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 5182 (Part 06) : 2006	26	µg/m <sup>3</sup>
3.	Particulate Matter (PM <sub>10</sub> )	EPA/625/R-96/010a Method IO-2.1	78	µg/m <sup>3</sup>
4.	Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (Part 24) : 2019	27	µg/m <sup>3</sup>
5.	Carbon Monoxide (CO) †	IS 5182 (Part 10) : 1999	1.5	mg/m <sup>3</sup>

**†: Sampling Period 1 Hr.**
**Remark/ Statement of Conformity:** The parameters tested above are found to be within 24 hourly TWA of National Ambient Air Quality Monitoring Standard (NAAQMS), Part III- Section IV. NAAQMS is provided as Annexure-I for your reference. (Turnover to find Annexure)

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - Polltech; Model - PEM-RDS 8NL; Sr. No. 3213	Valid up to - 06/01/2024
	Fine Dust Sampler	Make - Netel, Model - NPM FDS2.5/10µ (A); Sr. No. 222	Valid up to - 18/09/2024

**Note:**

1. Samples were collected by following laboratory's SOP (UT/LQMS/SOP/AA01A) based on CPCB Guidelines - National Ambient Air Quality Monitoring Series: NAAQMS/2003-04 and respective test methods.
2. This test report refers only to the sample tested.
3. Monitoring area coming under Residential areas and observed values are relevant to sample collected only.
4. This test report may not be reproduced in part, without the permission of this laboratory.
5. Any correction invalidates this test report.
6. Weather was Sunny & Clear during sampling period.

**- END OF REPORT -**


## **ANNEXURE-I**

### **NATIONAL AMBIENT AIR QUALITY STANDARDS, PART III-SECTION IV**

**The Gazette of India with Effect from Wednesday, November 18, 2009/KARTIKA 27, 1931**

Sr. No.	Pollutants	Time Weighted Average	<i>National Ambient Air Quality Standards</i>	
			Industrial, Residential, Rural and Other Area	Ecological Sensitive Area (Notified by Central Government)
01.	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Annual*	50	20
		24 Hours**	80	80
02.	Oxides of Nitrogen (NO <sub>x</sub> ), µg/m <sup>3</sup>	Annual*	40	30
		24 Hours**	80	80
03	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	Annual*	60	60
		24 Hours**	100	100
04.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	Annual*	40	40
		24 Hours**	60	60
05.	Carbon Monoxide (CO), mg/m <sup>3</sup>	08 Hours*	02	02
		01 Hours**	04	04

\* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

\*\* 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

**NOTE:** Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further

## TEST REPORT

**ISSUED TO: M/S. LANDCARE REALITY LLP**

 AT CTS NO.657, Survey No.17, Safed Pool, Andheri Kurla Road  
 Village Mohili, L Ward, Mumbai, Maharashtra

 REPORT NO. : UT/ELS/REPORT/C-084/01-2024  
 ISSUE DATE : 15/01/2024  
 YOUR REF. : Work Order Letter  
 REF. DATE : 14/10/2022

**SAMPLE PARTICULARS :**

 Sampling Plan Ref. No. : C-36/12-2023  
 Date of Monitoring : 30/12/2023

**NOISE LEVEL QUALITY MONITORING**

 Sample Lab Code : UT/ELS/C-196/12-2023  
 Survey Done By : ULTRA-TECH

Sr. No.	Location	Noise Level Reading in dB(A)			
		Time (Hrs)	Day dB(A)	Time (Hrs)	Night dB(A)
01.	At Project Site	12:00 to 12:05	54.4	00:00 to 00:05	44.3

**Opinions / Interpretations:** The Noise Pollution (Regulation And Control) Rules, 2000: Is Provided as Annexure II for Your Reference.  
 (Turnover to find Annexure).

**Note:**

1. Monitoring area coming under Residential Area.
2. Noise level monitored is an average for period as stated above, the permissible sound pressure level is to be determined with respect to the total time a workman is being exposed (continuously or a number of short term exposures per day) in Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make – Casella; Model – CEL-633C; Sr. no. 2382959	Valid up to – 01/12/2024

**Note:**

1. This test report refers only to the monitoring conducted.
2. This test report may not be reproduced in part, without the permission of this laboratory.
3. Any correction invalidates this test report.

**- END OF REPORT -**


## **ANNEXURE-II**

### **THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000**

*(The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended vide S.O. 1046(E), dated 22.11.2000, S.O. 1088(E), dated 11.10.2002, S.O. 1569 (E), dated 19.09.2006 and S.O. 50 (E) dated 11.01.2010 under the Environment (Protection) Act, 1986.)*

#### • **SCHEDULE**

(See rule 3(1) and 4(1))

Ambient Air Quality Standards in respect of Noise

Area Code	Category of Area / Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Note:

1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\* dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

Leq: It is energy mean of the noise level over a specified period.

#### • **CONSTRUCTION ACTIVITIES**

The maximum noise levels near the construction site should be limited to 75 dB(A) Leq(5 min.) in industrial areas and to 65 dB(A) Leq(5 min.) in other areas.

#### • **THE PERMISSIBLE LEVELS FOR NOISE EXPOSURE FOR WORK ZONE**

(The Model Rules Of The Factories Act, 1948)

Peak sound pressure level in dB	Permitted number of impulses or impact/day
140	100
135	315
130	1000
125	3160
120	10000

Notes:

1. No exposure in excess of 140 dB peak sound pressure level is permitted.
2. For any peak sound pressure level falling in between any figure and the next higher or lower figure as indicated in column 1, the permitted number of impulses or impacts per day is to be determined by extrapolation on a proportionate basis.

Total time exposure (continuous or a number of short term exposures per day) in Hrs	Sound Pressure Level in dB(A)
8	90
4	93
2	96
1	99
1/2	102
1/8	108
1/16	111
1/32 (2 minutes) or less	114

Notes:

1. No exposure in excess of 115 dB(A) is to be permitted.
2. For any period of exposure falling in between any figure and the next higher or lower figure as indicated in column 1, the permissible sound pressure level is to be determined by extrapolation on a proportionate basis.

## TEST REPORT

**ISSUED TO: M/S. LANDCARE REALITY LLP**

AT CTS NO.657, Survey No.17, Safed Pool, Andheri Kurla Road  
Village Mohili, L Ward, Mumbai, Maharashtra

REPORT NO. : UT/ELS/REPORT/C-085/01-2024

ISSUE DATE : 15/01/2024

YOUR REF. : Work Order Letter

REF. DATE : 14/10/2022

**SAMPLE PARTICULARS :**

Sampling Plan Ref. No. : C-36/12-2023  
Sampling Procedure : UT/LQMS/SOP/S01A  
Sample Registration Date : 31/12/2023  
Date & Time of Sampling : 30/12/2023 at 17:00Hrs.  
Analysis Starting Date : 31/12/2023  
Analysis Completion Date : 06/01/2024  
Sample Collected By : ULTRA TECH  
Sample Lab Code : UT/ELS/C-197/12-2023

**SOIL QUALITY MONITORING**

Sample Type : Surface Soil (at 15cm depth)  
Sample Location : At Project Site

Sample Quantity & Packing Details : 1kg In Plastic Bag Contained in Zip Lock Bag

Sr. No.	Test Parameter	Test Methods	Test Result	Unit
1.	Moisture Content	IS:2720 (Part 2) : 1973	4.8	%
2.	Bulk Density	UT/LQMS/SOP/S03	1171	kg/m <sup>3</sup>
3.	Organic Matter	IS:2720 (Part 22) : 1972	1.0	%
4.	Total Organic Carbon	IS:2720 (Part 22) : 1972	0.6	%
5.	pH [1:2.5 Soil:Water Extract]	IS:2720 (Part 26) : 1987	7.9	-
6.	Conductivity(1:2soil:Water Extract)	IS:14767- 2000	0.594	mS/cm
7.	Sodium as Na (Water Extractable)	UT/LQMS/SOP/S19	78	mg/kg
8.	Magnesium as Mg (Water Extractable)	UT/LQMS/SOP/S22	88	mg/kg
9.	Chlorides as Cl <sup>-</sup> (Water Extractable)	UT/LQMS/SOP/S23	126	mg/kg
10.	Sulphate as SO <sub>4</sub> <sup>2-</sup> (Water Extractable)	UT/LQMS/SOP/S24	112	mg/kg
11.	Sodium Adsorption Ratio	UT/LQMS/SOP/S26	1.1	(meq/kg) <sup>1/2</sup>
12.	Cation Exchange Capacity	UT/LQMS/SOP/S18	24.3	meq/100g
13.	Water Holding Capacity	UT/LQMS/SOP/S12	54.8	%
14.	Available Boron as B (Available)	UT/LQMS/SOP/S27	0.7	mg/kg
15.	Phosphorous as P <sub>2</sub> O <sub>5</sub> (Available)	UT/LQMS/SOP/S28	75	kg/ha
16.	Potassium as K <sub>2</sub> O (Available)	UT/LQMS/SOP/S29	244	kg/ha
17.	Nitrogen as N (Available)	UT/LQMS/SOP/S30	196	kg/ha
18.	Iron as Fe	UT/LQMS/SOP/S35&S37	72147	mg/kg
19.	Zinc as Zn	UT/LQMS/SOP/S35&S37	94	mg/kg

**Remark/ Statement of Conformity:**

*NIL*

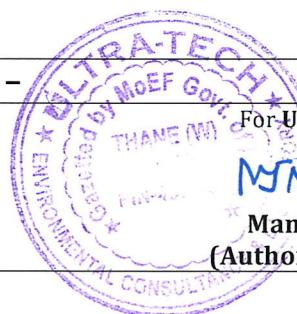
**Note:** 1. Samples were collected by following laboratory's SOP (UT/LQMS/SOP/S01A) based on Methods Manual: Soil Testing in India by DA&FW, MoA, GOI.

2. This test report refers only to the sample tested.

3. This test report may not be reproduced in part, without the permission of this laboratory.

4. Any correction invalidates this test report.

**- END OF REPORT -**



For ULTRA TECH

*Manasi Namjoshi*

Manasi Namjoshi  
**(Authorized Signatory)**

