

COMPLIANCE REPORT

(OCTOBER 2022 - MARCH 2023)

For

RESIDENTIAL PROJECT 'NEELKANTH PALMS'

(ENVIRONMENTAL CLEARANCE LETTER NO.21-425/2006-IA-III dated 28 Nov 2006)

**At plot bearing Survey No. 145/3, 146/4, 147 148/2, 148/3, 149/P, 150,
152/1, 154/P, 412/P, 151/1, 151/3 at Village Majiwada, Dist.- Thane,
State- Maharashtra.**

Proposed By

M/S NEELKANTH PALM REALTY

Project Details

Sr. No.	Particulars	Details
1	Project type :River- valley/mining / Industry/Thermal/Nuclear/other(specify)	Construction Project
2	Name of the Project	Residential Project "Neelkanth Palms"
3	Clearance letter(s)/OM and Date	Obtained EC from MoEF, Delhi vide letter F. No. 21-425/2016-IA-III dated. 28.11.2006
4	Location	Plot bearing S. No.: 145/3/1, 146/4, 147/2, 148/2/1, 148/2/4, 148/2/5, 148/3/1, 148/3/4, 149/4/1, 150/1, 151/1/1, 151/1/4, 151/1/6, 151/3, 154/2/1, 149/2, 154/4/3, 412/2, 414/1/B at village Majiwade, Tal. & Dist.: Thane, Maharashtra.
	a) District(s)	Thane
	b) State(s)	Maharashtra
	c) Latitude/Longitude	N 19°13'11.83" E 72°58'31.34"
5	Address of correspondence	
	a) address of concerned Project Chief Executive (with pin code & telephone/telex/fax numbers)	Shri. Tejas Shah NEELKANTH PALM REALTY 309, Sai Infotech, R B Mehta Road, Ghatkopar(East), Mumbai 400077
	b) Address of Executive Project Engineer/Manager(with pin code/fax numbers)	Same as above
6	Salient features	
	a) of the Project	
	b) of the Environmental Management Plan	We have provided all the environmental infrastructure like STP, OWC, RWH, Solar Hot water Panels and Miyawaki Forests. Capital Cost: Rs. 695 Lakhs O & M Cost: 74 Lakh/yr
7	Break up of the project area	
	a) submergence area : forest & non-forest	NA
	b) Others	Total Plot area: 48496.00 m ²
		FSI area 57,885.74 m ²
		Non FSI area 46,600 m ²
		Total Construction Area 1,04,485.74 m ²
8	Breakup of the project affected population with enumeration of those losing houses/dwelling unit only agricultural land	-

	only, both dwelling units & agricultural land & landless laborers/		
	a) SC, ST / Adivasis	N.A.	
	b) others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey carried out gives details and years of survey)	N.A.	
9	Financial details:		
	a) Project cost as originally planned and subsequent revised estimates and the year of price reference	Rs. 75 Crore	
	b) Allocation made for environmental management plans with item wise and year wise break-up	Capital Cost	695 Lakhs
		Operation & Maintenance Cost	74 Lakhs
	c) Benefit cost ratio/Internal rated of Return and the year of assessment	N.A.	
	d) Whether (c) includes the cost of environmental management as shown in the above	N.A.	
	e) Actual expenditure incurred on the environmental management plans so far	N.A.	
10	Forest land requirement	No Forest Land Required.	
	a) The status of approval for diversion of forest land for non-forestry use	N.A.	
	b) The status of clearing felling	N.A.	
	c) The status of compensatory	N.A.	
	d) afforestation, if any	N.A.	
	e) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	N.A.	
11	The status of clear felling in non-forest area (such as submergence area of reservoir, approach roads), if any with quantitative information	N.A.	
12	Status of construction		
	a) Date commencement (Actual and/or planned)	8 Residential buildings are constructed and 1 is remaining.	
	b) Date of completion (Actual and/or planned)	Last OC received in the year 2019	
13	Reasons for the delay if the project is yet to start	NA	
14	Dates of site visits		

	a) The dates on which the project was monitored by the Regional office on previous occasions, if any	Site not yet visited by official of MoEF Regional Office, Nagpur.
	b) Date of site visit for this monitoring report	Not yet finalized.
15	Details of correspondence with project authorities for obtaining action plans/information on status of compliance to safeguards other than the routine letters for logistic support for site visits) (The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letters issued subsequently)	Environmental Clearance letter No. 21-425/2006-IA-III dated 28 Nov 2006

PRESENT STATUS OF RESIDENTIAL PROJECT “M/s Neelkanth Palm Realty”

At plot bearing Survey No. 145/3, 146/4, 147 148/2, 148/3, 149/P, 150, 152/1, 154/P, 412/P, 151/1, 151/3 at Village Majiwada, Dist.- Thane, State- Maharashtra

Bldg.	Building Configuration	Status of construction
Phase I: Wing A	St + 16 floors	Completed and occupied
Wing B	St + 15 floors	Completed and occupied
Wing C	St + 14 floors	Completed and occupied
Phase II: Wing A	LG + UG + St /P + 27 Floors	Completed and occupied
Wing B	B + UG + St /P + 28 Floors	Completed and occupied
Wing C	LG/B+ UG +1ST - 9TH POD. + Serv Flr+ Recre Flr+1st - 19TH RESI.+20TH Recre +21ST - 41ST RESI.	Yet to start
Phase III: Wing A	LG+UG + 21 Floors	Completed and occupied
Wing B	LG+UG + 19 Floors	Completed and occupied
Wing C	LG+UG + 17 Floors	Completed and occupied
Club House	Lower floor + upper floor	Completed and occupied

Compliance to Environmental Clearance letter No.: 21-425/2006-IA-III dated 28 Nov 2006

Part A: SPECIFIC CONDITIONS		
I. Construction Phase		
	Conditions	Compliance
1.	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	We have complied with the same.
2.	Soil and ground water samples will be tested to ascertain that there is no threat to groundwater quality by leaching of heavy metals and other toxic contaminants.	We have tested soil and water samples through MoEF recognized laboratory. This project being residential project there is no possibility of contamination of toxic and heavy metals. The copies of the reports are attached.
3.	A First Aid Room will be provided at the project site both during construction and operation of the project.	Yes we have complied with the same.
4.	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	Earlier during construction phase we had given drinking water facilities and sanitary facilities to the workers.
5.	Disposal of muck including excavated material during construction phase should not create any adverse effects on the neighboring communities and be disposed off taking the necessary precautions for general safety and health aspects of people.	The muck was disposed with the permissions of competent authority at approved site. As a precaution, we had barricaded about 10 feet above ground level to create general safety and health aspects of people.
6.	Diesel power generating sets used during construction phase should be of "enclosed type" to prevent noise and should conform to rules made under Environment (Protection) Act 1986, prescribed for air and noise emission standards.	DG set of 1300 kVA has been installed on site for operation phase.

7.	Ambient noise levels should conform to residential standards both during day and night when measured at boundary wall of the premises. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.	The noise levels as well as air pollution was monitored regularly from MoEF recognized laboratory. Copy of reports is attached.
8.	Vehicles hired for bringing construction material at site should be in good condition and should have valid "pollution under check" (PUC) certificate and to conform to applicable air and noise emission standards.	Regular maintenance of construction vehicles were carried out to keep them in good condition. We have adequate parking space for construction vehicles inside the premises to lessen the impacts on traffic in surrounding areas.
9.	Construction spoils including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	Such types of wastes are not anticipated in this activity. However, all possible measures were taken to avoid contamination of water bodies / streams.
10.	Any hazardous waste generated during construction phase should be disposed of as per applicable Rules & norms with necessary approvals of the Maharashtra State Pollution Control Board	Hazardous waste was not generated during construction phase.
11.	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase so as to avoid disturbance to the surroundings.	The regular supervision was carried out by the project in-charge and supervisors.
II. Operation Phase		
1.	Necessary permission of competent authority shall be taken to store diesel in the premises for operation of DG set.	We are not storing diesel on site.

2.	Diesel power generating sets proposed as source of backup power for lifts and common area illumination should be of "enclosed type" and conform to rules made under Environment (Protection) Act 1986, prescribed for air and noise emission standards as per CPCB guidelines. Exhausts should be discharged by stack, raised to 4 meters above the rooftop	We have provided the enclosed type DG sets for common areas.
3.	During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	The noise levels are monitored regularly from MoEF recognized laboratory. Noise monitoring reports are attached.
4.	Noise barriers should be provided at appropriate locations so as to ensure that the noise levels do not exceed the prescribed standards	We will comply with the same during construction phase of Wing 'C' i.e. remaining building.
5.	Weep holes in the compound walls shall be provided to ensure natural drainage of rainwater in the catchment area.	We have provided with the same.
6.	The sewage treatment plants should be certified by an independent expert for efficiency as well as adequacy and should submit a report in this regard to the Ministry before the project is commissioned for operation The wastewater should be treated to tertiary level and after treatment reused for flushing of toilets and gardening Discharge of treated sewage if any shall conform to the norms & standards prescribed by Maharashtra State Pollution Control Board	STP, MSW disposal facility is provided for already constructed building. Sewage we are treating upto tertiary level and treated sewage we are reusing for flushing and gardening purpose.
7.	Oil & Grease trap shall be provided to remove oil and grease from the surface run off and suspended matter shall be removed in a settling tank before its utilization for rainwater harvesting	We have already complied with the same.

8.	The solid waste generated should be properly collected & segregated Wet garbage should be composted and dry/inert solid waste should be disposed of for land filling.	Solid waste is collected and segregated at source. Wet garbage we are treated in Mechanical composting machine and generated manure we are using for the Gardening. Dry solid waste is disposed of on municipal solid waste management system.
9.	Any hazardous waste including biomedical waste should be disposed of as per applicable Rules & norms with necessary approvals of the Maharashtra State Pollution Control Board	This being a residential project no biomedical waste will generate.
10.	The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous variety	Landscape is developed considering CPCB guidelines including selection of plant species. The tree species which planted are of local variety.
11.	Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.	Monitoring reports are attached.
12.	The ground water levels and its quality should be monitored regularly.	Monitoring reports are attached.
13.	A Report on the energy conservation measures should be prepared incorporating details about building materials & technology, R & U Factors etc. and submitted to the Ministry in three month time.	We have adapted the energy conservation measures by providing LED lightings and Solar Hot water panels.
14.	The values of R & U for the building envelope should meet the requirements of the hot & humid climatic location. Details of the building envelope should be worked out and furnished in three months time.	We have adapted the energy conservation measures by providing LED lightings and Solar Hot water panels.
Part B: General Conditions		
(i)	The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.	We have complied.

(ii)	Provision should be made for the supply of kerosene or cooking gas and pressure cooker to the laborers during construction phase.	We have complied at the time of construction phase.
(iii)	All the laborers to be engaged for construction works should be screened for health and adequately treated before the issue of work permits.	We have complied at the time of construction phase.
(iv)	6 monthly monitoring reports should be submitted to the Ministry and its Regional Office.	We have complied.
5.	Officials from the Regional Office of MOEF, Bhopal who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to MOEF should be forwarded to the CCF, Regional office of MOEF, Bhopal	We have complied.
6.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry	Yes. We agree.
7.	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner	Yes. We agree.
8.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department (if required). CRZ Regulations etc. shall be obtained by project proponents from the competent authorities.	Yes. We agree.

9.	A copy of the environmental clearance letter would be marked to the local NGO(s), if any, from whom suggestion/representation were received at the time of public hearing.	Yes. We agree.
10.	The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Maharashtra State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in in The advertisement should be made within 7 days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal.	Yes. We agree.
11.	These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	Yes. We agree.
12.	The project authority will enter in to MOU with all buyers of the property. flats/shops etc. to ensure operation and maintenance of the assets handed over to the society formed by the residents/owners of the buildings.	Yes. We agree.



**ENVIRONMENTAL MANAGEMENT PLAN
DURING CONSTRUCTION PHASE**

Sr. No.	Environmental Components	Predicted Impacts	Probable source of Impact	Mitigation Measures	Remarks
CONSTRUCTION PHASE					
1.	Ambient Air Quality	Negative impact inside construction site premises. No negative impact outside site.	Dust emissions from excavation, air emissions from machinery and other construction activities at site.	Dust reduction measures such as road watering. Periodic maintenance of construction equipment. Use of good quality fuels. Use of Personal Protective Equipments	Impacts are temporary during construction phase. Impacts are confined to short distances, as coarse particles are settle within the short distance from activities.
2.	Noise	Negative impact near noise generation sources inside premises. No significant impact on ambient noise levels in the surrounding area.	Noise generated from construction activities and operation of construction equipment and DG sets	Use of well maintained equipment. Heavy construction activity limited to day-time hours only. Use of noise mufflers in and construction vehicle. Use of earplugs/muffs by construction staff.	Temporary impacts during construction phase. No blasting or other high noise activities envisaged.
3.	Water	No significant negative impact.	Surface runoff from project site. Oil/fuel and waste spills. Improper debris disposal. Discharge of sewage from labour camp.	Silt fences to reduce run-off Secondary containment and dykes in material storage areas. Sewage treatment in septic tanks.	Laboursare employed to reduce size of labour camps. No perennial surface water resource adjacent to site.

4.	Land	Minor negative impact	Excavation, Construction debris, waste from labour camp.	Reutilization and recycling of construction debris Waste from labour camps was collected and composted on site. Non compostable waste is transported to landfill site. Topsoil is conserved and used for landscaping in functional phase.	-
5.	Aesthetics	Minor negative impacts	Construction activities and Excavation	The impacts is compensated by extensive tree plantation and gardening in the use phase.	Short term impact restricted only in the initial stages of construction.

EMP COST

Component	Capital Cost (Rs. In Lakhs)	O & M Cost (Rs. In Lakhs/year)
STP (Tertiary)	88	16
Solar System	10	0.5
Rain Water Harvesting	16	0.8
Solid waste Composting plant	40	16
Landscape development	30	3
Environmental Monitoring		4
DMP Cost	511	34
Total Cost	695	74

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID : AA/01/23/035	Report No. AA/01/23/035	Report Date	10/01/2023
Name and address of Customer	Neelkanth Palm Realty Plot bearing S. No. 145/3/1, 146/4, 147/2, 148/2/1, 148/2/4, 148/2/5, 148/3/1, 148/3/4, 149/4/1, 150/1, 151/1/1, 151/1/4, 151/1/6, 151/3, 154/2/1, 149/2, 154/4/3, 412/2, 414/1/B, At Village Majiwade, Tal. & Dist. Thane, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ambient Air
Sampling Location	At Near Project Site	Date - Sampling	03/01/2023 to 04/01/2023
Sample Quantity / Packing	PM ₁₀ : Bap, Metals: 1 x 3 no. filter paper PM _{2.5} : 1 x 1 no. filter paper SO ₂ , NO ₂ : 30 ml x 6 no. plastic bottle each NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 1 x 6 no. charcoal tubes CO: 1 x 1 no. bladder	Date - Receipt of Sample	05/01/2023
Sampling Procedure	As per method reference	Date - Start of Analysis	05/01/2023
Order Reference	Test Request No. AEC/TR/01/2023/197 dated 05.01.2023	Date - Completion of Analysis	10/01/2023

Meteorological Data / Environmental Conditions

Average Wind Velocity 8.9 km/h	Wind Direction S-W	Relative Humidity (Max./Min.): 76/58%	Temperature (Max./Min.): 31/28°C	Duration of Survey 24 h
Parameter	Result	NAAQS# 2009	Unit	Method

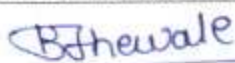
Chemical Testing; Group: Atmospheric Pollution

Sulphur Dioxide (SO ₂)	10.2	80	µg/m ³	IS 5182 (Part 2): 2001
Nitrogen Dioxide (NO ₂)	24.5	80	µg/m ³	IS 5182 (Part 5): 2006
Particulate Matter (size less than 10 µm) or PM ₁₀	82	100	µg/m ³	IS 5182 (Part 23): 2006
Particulate Matter (size less than 2.5µm) or PM _{2.5}	40	60	µg/m ³	CPCB Guideline, Volume 1.36/2012-13, Page No.15:2013
Ozone (O ₃)	31.5	180	µg/m ³	Methods of Air Sampling and Analysis (AWMA), 3rd Ed., Method 411, Page no. 403 :1988
Lead (as Pb)	BLQ (LOQ:0.02)	1	µg/m ³	EPA/625/R-96/D10 a Compendium Method 10-316 3.2
Carbon Monoxide (CO)	1.18	4	mg/m ³	CPCB Guidelines, Volume II, 37/2012-13, Page no.16: 2013
Ammonia (NH ₃)	24.3	400	µg/m ³	CPCB Guidelines, Volume 1.36/2012-13, Page No.35: 2013
Benzene (C ₆ H ₆)	2.32	5	µg/m ³	IS 5182 (Part II) : 2006
Benzo (a) pyrene (BaP) Particulate Phase only	BLQ (LOQ:0.2)	1	ng/m ³	IS 5182 (Part 12): 2004
Arsenic (as As)	BLQ (LOQ:0.3)	6	ng/m ³	EPA/625/R-96/D10 a Compendium Method 10-316 3.4
Nickel (as Ni)	BLQ (LOQ:3)	20	ng/m ³	EPA/625/R-96/D10 a Compendium Method 10-316 3.2

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

TWA : Time Weighted Average

 # : NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.



 Kavita Shewale
 Section In-Charge (Chemical)
 Reviewed & Authorised by




NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/01/23/040	Report No: N/01/23/040	Report Date	10/01/2023
Name and Address of Customer	M/s. Neelkanth Palm Realty Plot bearing S. No.: 145/3/1, 146/4, 147/2, 148/2/1, 148/2/4, 148/2/5, 148/3/1, 148/3/4, 149/4/1, 150/1, 151/1/1, 151/1/4, 151/1/6, 151/3, 154/2/1, 149/2, 154/4/3, 412/2, 414/1/B at village Majiwade, Tal. & Dist.: Thane, Maharashtra.		
Monitoring done by	Laboratory	Sample Description /Type:	Ambient Noise
Order Reference	Test Request No. AEC/TR/01/2023/198 dated 05.01.2023	Date-Monitoring	03/01/2023

Chemical Testing; Group: Atmospheric Pollution

Location	Day Time (6AM-10PM) dB (A)	Night Time (10PM -6AM) dB (A)	Method
	Leq		
A. At Project Site (Residential Area)	49.95	37.15	CPCB Protocol for Ambient Level Noise Monitoring July AEC/C/SAP/SAM/256/36 Issue no. 4 Issue date 01/04/2018
B. Near Lokeshwar Temple (Residential Area)	47.15	39.25	
C. Near Bethary Hospital (Silence Zone)	44.65	36.5	
D. Near Vasant Lawns Society (Residential Area)	50.9	41.4	
E. Near D-Mart (Commercial Area)	62.1	50.3	
F. Near Lake City Mall (Commercial Area)	60.35	49.85	
G. Near Vasant Vihar Circle (Residential Area)	53.3	40.01	

Limits

As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))

Area Type	Limits in dB (A) weighted scale	
	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40


Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by



End of Report

Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviation or exclusions from the method.



ULR-TC550923000000324F

TEST REPORT

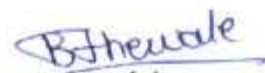
Sample ID : W/01/23/034	Report No. W/01/23/034	Report Date	11/01/2023
Name and address of Customer	Neelkanth Palm Realty Plot bearing S. No. 145/3/1, 146/4, 147/2, 148/2/1, 148/2/4, 148/2/5, 148/3/1, 148/3/4, 149/4/1, 150/1, 151/1/1, 151/1/4, 151/1/6, 151/3, 154/2/1, 149/2, 154/4/3, 412/2, 414/1/B, At Village Majiwade, Tal. & Dist. Thane, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Water (Drinking Water)
Sampling Location	Project Site - Tap	Date - Receipt of Sample	05/01/2023
Sample Quantity / Packing	5 L x 1 no. plastic can 250 ml x 1 no. sterile bottle	Date - Start of Analysis	05/01/2023
Order Reference	Test Request No. AEC/TR/01/2023/20 dated 05.01.2023	Date - Completion of Analysis	10/01/2023

Sr.No.	Parameter	Result	Acceptable Limit as per IS 10500:2012	Unit	Method
Chemical Testing; Group: Water, Residues in Water					
Organoleptic and Physical Parameters					
1	Colour	1	Max. 5	Hazen units	IS 3025 (Part 4) 1983
2	Odour	Agreeable	Agreeable	-	IS 3025 (Part 5) 2018
3	pH value	7.2	6.5-8.5	-	IS 3025 (Part IV) 1983
4	Turbidity	BLQ (LOQ:0.2)	Max.1	NTU	IS 3025 (Part 10) 1984
5	Total Dissolved Solids	60	Max.500	mg/L	IS 3025 (Part 16) 1984
General Parameters concerning substances undesirable in excessive amounts					
6	Aluminium (as Al)	BLQ (LOQ:0.025)	Max.0.03	mg/L	IS 3025 (Part 55) 2003
7	Chloride (as Cl)	12	Max.250	mg/L	IS 3025 (Part 37) 1988
8	Copper (as Cu)	BLQ (LOQ:0.02)	Max 0.05	mg/L	IS 3025 (Part 2) 2019 / ISO 1885: 2007
9	Fluoride (as F)	BLQ (LOQ:0.05)	Max.1	mg/L	IS 3025 (Part 60) 2008
10	Iron (as Fe)	BLQ (LOQ:0.06)	Max. 1.0	mg/L	IS 3025 (Part 2) 2019 / ISO 1885: 2007
11	Nitrate (as NO ₃)	0.99	Max.45	mg/L	APHA, 23rd Ed. 4500-NO3 8-4-127, 2017
12	Sulphate (as SO ₄)	3.64	Max.200	mg/L	IS 3025 (Part 24) 1986
13	Total Alkalinity (as CaCO ₃)	45	Max.200	mg/L	IS 3025 (Part 23) 1986
14	Total Hardness (as CaCO ₃)	56	Max.200	mg/L	IS 3025 (Part 21) 1983
15	Zinc (as Zn)	BLQ (LOQ:0.05)	Max 5	mg/L	IS 3025 (Part 2) 2019 / ISO 1885: 2007
16	Total Phosphorous (as P)	BLQ (LOQ:0.1)	Not specified	mg/L	APHA, 23rd Ed. 2017, 4500 P.E. 4-161
17	Total Nitrogen (as N)	0.22	Not specified	mg/L	APHA, 23rd Ed. 4500 N. 8. 4-108: 2017
18	Potassium (as K)	1.7	Not specified	mg/L	IS 3025 (Part 45) 1995
Parameters Concerning Toxic Substances					
19	Cadmium (as Cd)	BLQ (LOQ:0.002)	Max 0.003	mg/L	IS 3025 (Part 2) 2019 / ISO 1885:2007
20	Lead (as Pb)	BLQ (LOQ:0.008)	Max 0.01	mg/L	IS 3025 (Part 2) 2019 / ISO 1885:2007



Divya Sharma
Technical Manager (Biological)
Reviewed & Authorised by





Kavita Shewale
Section In-Charge (Chemical)
Reviewed & Authorised by

TEST REPORT

Sample ID : S/01/23/053	Report No. S/01/23/053	Report Date	13/01/2023
Name and address of Customer	Neelkanth Palm Realty Plot bearing S. No. 145/3/1, 146/4, 147/2, 148/2/1, 148/2/4, 148/2/5, 148/3/1, 148/3/4, 149/4/1, 150/1, 151/1/1, 151/1/4, 151/1/6, 151/3, 154/2/1, 149/2, 154/4/3, 412/2, 414/1/B, At Village Majiwade, Tal. & Dist. Thane, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Soil
Sample Location	Project Site (Nr. Main Gate)	Date - Receipt of Sample	05/01/2023
Sample Quantity / Packing	2 kg x 1 no. plastic bag	Date - Start of Analysis	05/01/2023
Order Reference	Test Request No. AEC/TR/01/2023/0210 dated 05.01.2023	Date - Completion of Analysis	12/01/2023

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	pH (1:5 suspension)	8.30	-	FAO, Sec. III, Page no.65
2	Moisture Content	8.32	% by Weight	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011
3	Organic Carbon	0.91	%	FAO, Sec. III, 3, Page no.73
4	Total Nitrogen (as N)	108	mg/kg	FAO, Sec. III, 4, Page No. 78
5	Total Phosphorus (as P)	51.5	mg/kg	FAO, Sec. III, 12-1, Page no.157
6	Total Potassium (as K)	587	mg/kg	USEPA/SW846/7000B
7	Bulk Density	0.9509	g/cm ³	AEC/C/SAP/S-27
8	Water Holding Capacity	28.9	%	AEC/C/SAP/S-18
9	Oil & Grease	BLQ (LOQ:5)	mg/kg	USEPA/SW 846/ 90718
10	Sodium Adsorption Ratio	BLQ (LOQ:1)	-	ISRIC, Page No.13-58/59
11	Hexavalent Chromium (as Cr ⁺⁶)	BLQ (LOQ:5)	mg/kg	USEPA Method -719E4
12	Cadmium (as Cd)	BLQ (LOQ:5)	mg/kg	USEPA/SW 846/7000B
13	Copper (as Cu)	83.7	mg/kg	USEPA/SW 846/7000B
14	Lead (as Pb)	8.86	mg/kg	USEPA/SW 846/7000B
15	Zinc (as Zn)	80.4	mg/kg	USEPA/SW 846/7000B
16	Nickel (as Ni)	130	mg/kg	USEPA/SW 846/7000B
17	Chloride (as Cl)	123	mg/kg	AEC/C/SAP/S-7
18	Sulphate (as SO ₄)	206	mg/kg	USEPA/SW 846/903B

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Note: All results are on air dry basis.

FAO: Food & Agriculture Organization, United Nations.

Sample ID S/01/23/053 bears two Test Reports - S/01/23/053 and S/01/23/053N


Ninad Soundankar
Technical Manager (Chemical)
Reviewed & Authorised by





TEST REPORT

Sample ID : S/01/23/053	Report No. S/01/23/053N	Report Date	13/01/2023
Name and address of Customer	Neelkanth Palm Realty Plot bearing S. No. 145/3/1, 146/4, 147/2, 148/2/1, 148/2/4, 148/2/5, 148/3/1, 148/3/4, 149/4/1, 150/1, 151/1/1, 151/1/4, 151/1/6, 151/3, 154/2/1, 149/2, 154/4/3, 412/2, 414/1/B, At Village Majiwade, Tal. & Dist. Thane, Maharashtra		
Sampling done by	Customer	Sample Description / Type	Soil
Sample Location	Project Site (Nr. Main Gate)	Date - Receipt of Sample	05/01/2023
Sample Quantity / Packing	2 kg x 1 no. plastic bag	Date - Start of Analysis	05/01/2023
Order Reference	Test Request No. AEC/TR/01/2023/0210 dated 05.01.2023	Date - Completion of Analysis	12/01/2023

Sr. No.	Parameter	Result	Unit	Method
Chemical Testing; Group: Pollution & Environment				
1	Particle Size Distribution	-	-%	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011, Ch.4, Page No. 67-2011
i	Sand	42	%	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011, Ch.4, Page No. 67-2011
ii	Clay	47	%	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011, Ch.4, Page No. 67-2011
iii	Loam	Sandy Clay	%	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011, Ch.4, Page No. 67-2011
iv	Silt	11	%	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011, Ch.4, Page No. 67-2011
2	Colour	Light Brown	-	By Visual Method
3	Texture	Clay	%	Dept. of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India, Jan 2011, Ch.4, Page No. 67-2011
4	Porosity	46.2	%	AEC/C/SAP/S-19
5	Permeability	2.7 x 10⁻²	cm/sec	AEC/C/SAP/S-20
6	Nitrate (as NO ₃)	BLQ (LOQ:1)	mg/kg	APHA 23rd Ed. 2017, 4500-NO ₃ B-4-127
7	Barium (as Ba)	127	mg/kg	USEPA/SW 846/6010C

BLQ: Below Limit of Quantification, LOQ: Limit of Quantification

Note: All results are on air dry basis.

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End of Report

Note:

1. The result listed refer only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviations or exclusions from the method.