

DATA SHEET

1.	Project type: River -Valley/ Mining/ Industry/ Thermal/ Nuclear/ other (specify)	:	Construction Project.
2.	Name of the project	:	M/s. L&T Seawoods Ltd. "Integrated Seawoods Project" Plot No. R1, Sector 40, Seawoods railway station, Nerul, Navi Mumbai, Maharashtra.
3.	Clearance letter (s)/OM no. and date	:	No. SEAC-2009/CR.135/TC2 dated: 18.12.2009, Amended EC received dated 05/04/2010 & Revalidation of Environmental Clearance received on 31/07/2017.
4.	Location		
	(a) District	:	Mumbai
	(b) State	:	Maharashtra
	(c) Latitude / Longitude	:	Latitude : 19° 07" N Longitude : 72° 54" E
5.	(a) Address for correspondence		Mr. Subrata Bandyopadhyay M/S. L & T Seawoods Ltd. "Integrated Seawoods Project" Plot No. R-1, Sector 40, Seawoods Railway Station, Nerul node, Navi Mumbai, Maharashtra. E-Mail: subrata.bandyopadhyay@larsentoubro.com
6.	Salient Features		
	(a) Of the project	:	The Project Proponent has been appointed by CIDCO as the developing agency with an objective to upgrade the infrastructure of the existing Railway station and develop an integrated complex comprising of rail station, Retail & Commercial office spaces. The indicative area statement is as follows: Total Plot Area: 1, 62,002.83 sq. m. Total Proposed Construction Area: 8,10,771 sq. m Total FSI area: 2,43,004 sq. m (Commercial- 1,40,684; shopping And retail: 73,251; Hotel & Service apartment: 24,415 & Entertainment: 4,654) Construction for Railways: 43,579 sq. m.

	(b) Of Environmental Management Plans	:	<ul style="list-style-type: none"> ▪ Implementation of Sewage Treatment Plant and reuse of treated sewage for flushing, cooling tower and Gardening ▪ Implementation of Rainwater Harvesting ▪ Use of solar energy for generation of hot water for kitchens and pantries and for street light. ▪ Ventilation and Air Conditioning system has been provided with variable speed drive mechanism for energy saving during times of low load. 						
7.	Break Up of the project area								
	(a) Submergence area: forest & non forest.	:	No forest land						
	(b) Others	:	Not Applicable						
8.	Breakup of the project affected population with enumeration of those losing houses /dwelling units only, agricultural land only, both dwelling units & agricultural land & landless labourers /artisan.	:	Not Applicable						
	(a) SC, ST /Adivasis		Not Applicable						
	(b) Others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)	:	Not Applicable						
9.	Financial details								
	(a) Project cost as originally planned and sub-sequent revised estimates and the year of price reference.		Project cost- Originally planned - 3,118.00 Crores Revised Estimated – 5,500.00 Crores						
	(b) Allocation made for environmental management plans with item wise and year wise break-up.	:	Cost Break Up For Environmental Management Plan : <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Environment Protection Measure</th> <th style="text-align: center;">Capital Cost in Lakhs (Rs.)</th> <th style="text-align: center;">Recurring Cost/ annum in Lakhs (Rs.)</th> </tr> </thead> <tbody> <tr> <td>Environment Protection measures during construction stage (barrier construction, water sprinkling etc.)</td> <td style="text-align: center;">1,50</td> <td style="text-align: center;">2</td> </tr> </tbody> </table>	Environment Protection Measure	Capital Cost in Lakhs (Rs.)	Recurring Cost/ annum in Lakhs (Rs.)	Environment Protection measures during construction stage (barrier construction, water sprinkling etc.)	1,50	2
Environment Protection Measure	Capital Cost in Lakhs (Rs.)	Recurring Cost/ annum in Lakhs (Rs.)							
Environment Protection measures during construction stage (barrier construction, water sprinkling etc.)	1,50	2							

		Labour facilities (personal protective equipment, other measures concerning occupational health, drinking water/ sanitation etc.)	1,00	10
		Sewage Treatment Plant	7,00	70
		Solid Waste Management	15	10
		Rain Water Harvesting	3,50	2.5
		Green Belt	75	7.5
		Environmental Monitoring (including cost of staffing)	10	20
		Total	1400	122
	(c) Benefit cost ratio/Internal rate of Return and the year of assessment	:	Not Applicable	
	(d) Whether (c) include the cost of environmental management as shown in the above.	:	Not Applicable	
	(e) Actual expenditure incurred on the project so far	:	Rs. 3335.11 Crores	
	(f) Actual expenditure incurred on the environmental management plans so far	:	Rs. 935.70 Lakhs	
10.	Forest land requirement.	:		
	(a) The status of approval for diversion of forest land for non-forestry use	:		
	(b) The status of clearing felling	:		
	(c) The status of compensatory afforestation, if any	:	Not Applicable	
	(d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	:		
11.	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information	:	Not Applicable	
12.	Status of construction.	:	01.06.2011	
	a) Date of commencement (Actual and / or planned)	:		
	b) Date of completion (Actual and/ or planned)	:	30.06.2014 (Planned) / 17.12.2019 (anticipated)	

13.	Reason for the delay if the project is yet to start.	:	Not Applicable
14.	Dates of site visits		
	(a) The dates on which the project was monitored by the Regional Office on previous occasions, if any	:	-
	(b) Date of site visit for this monitoring report	:	Refer Post Monitoring Report
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.)	:	<ul style="list-style-type: none"> • Environment Clearance Letter vide No. SEAC-2009/CR.135/TC2 dated: 18.12.2009. • Amended EC received dated 05.04.2010 • Revalidation of Environmental Clearance received on 31/07/2017

Post Monitoring Report

Project

Integrated Seawoods Commercial Complex, Plot No. R1, Sector 40,
Nerul, Navi Mumbai – 400 706

Period

January 2018 – June 2018

Proponent

M/S. L & T Seawoods Ltd.

January 2018 – June 2018

INTRODUCTION

Environmental Clearance has been granted for proposed Development of Integrated Seawoods Commercial complex, Plot No. R1, Sector 40, Nerul, Navi Mumbai 400 706 by the Ministry of Environment & Forest, Government of India vide letter No. **SEAC-2009/CR.135/TC2 dated 18.12.2009 & revalidation in Environmental Clearance received on 31.07.2017**. As per the conditions of the clearance, periodic environmental monitoring is to be carried out during the construction and operation phase.

SCOPE OF WORK:

Includes Monthly monitoring for:

A. Ambient Air Quality Monitoring:

Aim: To Preserve Air quality around the project area.

The project land is in and around operating Seawoods Railway Station. Ambient air quality monitoring was carried out at a one location for 24 hrs. Samples were collected and analyzed for SPM, RSPM, SO₂, NO_x, CO etc. The results are summarized in **Table No. 2** as per the standard methods mentioned in **Table No. 1**.

Measures adopted to reduce air pollution:

1. Temporary barricades are erected to prevent the dispersion of dust & other pollutants.
2. Water sprinklers are provided to control dust.
3. DG set is provided with acoustic enclosure meeting CPCB norms.

B. Air Emission Monitoring:

Aim: To preserve Air quality around the project area during construction phase.

DG stacks emission Monitoring was carried out of One DG sets (2500 KVA each). The samples were collected and analyzed for Temperature, Velocity, Sulphur dioxide, TPM, Gas flow Rate. The results are summarized in **Table No. 3**.

C. Ambient Noise Level Monitoring:

Aim: To Maintain noise level within the standard limit around the project area.

Ambient Noise level monitoring was carried out during day time at two locations using a sound level meter and the results are reported in **Table No. 4**. Noise Monitoring report for D.G. set is reported in **Table 5**. The ambient Noise Level Standards are reported in **Table No. 6**.

Measures adopted to keep the noise levels within the limiting standard:

1. Temporary barricades are erected around the site.
2. High noise generating activities are carried out only during day time

January 2018 – June 2018

D. Drinking water Analysis:

Aim: To Prevent contamination of the drinking water due to construction activities at site.

Drinking water sample is collected. Drinking water quality monitoring was carried out and analyzed for various parameters. Results of analysis are compared with IS 10500 & presented in **Table No. 7** & analysis of drinking water sample for presence of E-Coli is carried out and results are presented in **Table No. 8**

E. STP Water Analysis:

Aim: To check water quality of treated water from STP.

STP water sample is collected. STP Water quality monitoring was carried out for Inlet, outlet water and analyzed for various parameters. Results of analysis are compared with limits as per MPCB for Sewage Effluent & presented in **Table No. 9 & Table No. 10.**

F. Soil Quality Analysis:

Aim: To prevent the leaching of contaminants in the soil.

The soil samples from the depth of 1 ft. below the soil surface was collected and analyzed for various parameters including Hazardous materials. The results of soil analysis are represented in **Table No. 11.**

Measures proposed to prevent the soil contamination:

1. Safe disposal of wastewater by the means of septic tank / temporary toilets.

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Central Lab: P-1, MIDC Commercial Plots, Mohopada, Patalganga, Dist Raigad. P.O. Rasayani - 410222
Tel. No. 02192 252008/250352
E-mail: aespvtltd@yahoo.com

A. AMBIENT AIR QUALITY MONITORING

**Table No. 1 Standard method of analysis for ambient air quality.
National Ambient Air Quality Standards (NAAQS)
(Issued vide Notification dated the 16th November, 2009)**

S. No.	Pollutant	Time weighted Average	Concentration in Ambient air		
			Industrial, Residential, Rural & Other Area	Ecologically Sensitive Area (notified by central government)	Method of measurement
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO ₂) µg/m ³	Annual * 24 hours**	50 80	20 80	<ul style="list-style-type: none"> ▪ Improved West and Gaeke ▪ UV - fluorescence
2	Oxides of Nitrogen (NO _x) µg/m ³	Annual 24 hours**	40 80	30 80	<ul style="list-style-type: none"> ▪ Modified Jacob and Hochheiser modified (Na-Arsenite) ▪ Chemiluminescence's Method
3	Particulate Matter (size less than 10µg/m ³) PM ₁₀ µg/m ³	Annual * 24 hours**	60 100	60 100	<ul style="list-style-type: none"> ▪ Gravimetric ▪ TOEM ▪ Beta attenuation
4	Particulate Matter (size less than 2.5µg/m ³) or PM _{2.5} µg/m ³	Annual * 24 hours**	40 60	40 60	<ul style="list-style-type: none"> ▪ Gravimetric ▪ TOEM ▪ Beta attenuation
5	Ozone (O ₂) µg/m ³	8Hours** 1Hours**	100 180	100 180	<ul style="list-style-type: none"> ▪ UV Photometric ▪ Chemiluminescence's Method ▪ Chemical Method
6	Lead (Pb) µg/m ³	Annual * 24 hours**	0.50 1.0	0.50 1.0	<ul style="list-style-type: none"> ▪ AAS/ICP method after sampling on EPM 2000 or equivalent filter paper ▪ ED-XRF using Teflon filter
7	Carbon Monoxide (CO) mg/m ³	8Hours** 1Hours**	02 04	02 04	<ul style="list-style-type: none"> ▪ Non dispersive infrared spectroscopy
8	Ammonia (NH ₃) µg/m ³	Annual * 24 hours**	100 400	100 400	<ul style="list-style-type: none"> ▪ Chemiluminescence's Method ▪ Indophenols blue method
9	Benzene(C ₆ H ₆) µg/m ³	Annual *	05	05	<ul style="list-style-type: none"> ▪ Gas chromatography based continuous analyzer ▪ Adsorption and Desorption followed by GC analysis
10	Benzo(a) Pyrene (BaP) - particulate phase only, ng/m ³	Annual *	01	01	<ul style="list-style-type: none"> ▪ Solvent extraction followed by HPLC/GC analysis
11	Arsenic (As), ng/m ³	Annual *	06	06	<ul style="list-style-type: none"> ▪ AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni, ng/m ³	Annual *	20	20	<ul style="list-style-type: none"> ▪ AAS/ICP method after sampling on EPM 2000 or equivalent filter paper

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Project By	:	"Integrated Seawoods Commercial Complex"
Sampling Site	:	Plot No. R1, Sector 40, Nerul, Navi Mumbai - 400 706
Nature of Sample	:	Ambient Air
Period	:	January 2018 - June 2018

Table No. 2 Ambient Air Quality Analysis

Month	January 2018		February 2018		March 2018		April 2018		May 2018		June 2018		Limiting Standard #
Date	15/01/2018	15/01/2018	24/02/2018	24/02/2018	28/03/2018	28/03/2018	23/04/2018	23/04/2018	23/05/2018	23/05/2018	16/06/2018	16/06/2018	
Location	Tower 1 Gate	Tower 2 Gate	Tower 1 Gate	Tower 2 Gate	Tower 1 Gate	Tower 2 Gate	Tower 1 Gate	Tower 2 Gate	Tower 1 Gate	Tower 2 Gate	Tower 1 Gate	Tower 2 Gate	
PM10 (µg/m³)	57.9	63.3	60.2	62.8	55.8	59.5	57.5	55.0	55.0	60.0	60.0	61.2	100
PM 2.5 (µg/m³)	19.5	20.8	18.3	19.5	18.7	19.5	18.4	18.7	18.4	19.5	20.0	20.0	60
SO₂ (µg/m³)	12.6	11.8	12.2	11.6	12.0	12.1	12.4	12.0	11.2	11.6	12.0	12.4	80
NO_x (µg/m³)	15.5	15.1	14.8	14.9	15.1	14.7	15.6	15.3	14.8	15.3	15.1	15.5	80
CO (mg/m³)	0.24	0.26	0.28	0.22	0.28	0.26	0.26	0.32	0.28	0.20	0.24	0.20	04*

[#] Specified under National Ambient Air Quality Standards by CPCB

[*] 1 hourly monitoring values

Observations:

All the parameters mentioned in above table are observed to be within the prescribed limits.

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B. STACK EMISSION ANALYSIS REPORT

Project By	:	"Integrated Seawoods Commercial Complex"
Sampling Site	:	Plot No. R1, Sector 40, Nerul, Navi Mumbai - 400 706
Nature of Sample	:	Stack Emission
Period	:	January 2018 - June 2018

Table No. 3: Stack Emission Quality Report

Stack Details		
Stack identification	:	DG No.3- 2500KVA
Fuel used	:	HSD
Stack diameter (m)	:	0.4
Cross-sectional area(m ²)	:	0.1256
Stack height (m)	:	30
Emission Details		
Parameter	Result of analysis	Limiting Standard as per EP act
	May 2018	
	17/05/2018	
Gas Temperature (°C)	128	--
Gas velocity (m/s)	5.63	--
Gas flow rate (Nm ³ /hr)	1891.78	--
TPM (mg/Nm ³)	32.8	150
Sulphur Dioxide (ppm)	0.21	--
NOx (ppm)	28	100 (*)
NMHC (mg/Nm ³)	11	100 (*)

Observation:

Stack emission analysis is carried out for DG Set. Parameter as given above are well within the prescribed limit of MPCB Consent.

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C. AMBIENT NOISE LEVEL MONITORING

Project By	:	"Integrated Seawoods Commercial Complex"
Sampling Site	:	Plot No. R1, Sector 40, Nerul, Navi Mumbai - 400 706
Nature of Sample	:	Ambient Noise & DG Set Noise
Period	:	January 2018 - May 2018

Table No. 4 Ambient Noise Level Measurement

Time (hrs)	January 2018		February 2018		March 2018		April 2018		May 2018		June 2018	
	Tower 1 Gate	Tower 2 Gate	Tower 1 Gate	Tower 2 Gate	Tower 1 Gate	Tower 2 Gate	Tower 1 Gate	Tower 2 Gate	Tower 1 Gate	Tower 2 Gate	Tower 1 Gate	Tower 2 Gate
	12/01/2018											
06.00	56.6	58.1	60.2	62.2	59.7	60.2	53.9	55.1	56.2	52.3	63.1	64.8
07.00	56.1	59.0	59.8	60.1	58.1	62.5	54.2	50.3	58.9	55.4	64.7	62.7
08.00	57.2	57.0	58.2	59.8	60.6	64.6	52.5	54.2	62.4	60.2	61.8	60.7
09.00	58.1	57.2	61.1	57.2	57.9	63.2	55.6	53.1	61.8	61.3	64.1	61.8
10.00	59.4	56.3	62.2	59.2	57.8	65.9	56.0	52.8	63.2	56.9	62.7	63.3
11.00	55.2	57.1	59.8	60.1	58.1	67.0	54.8	51.7	64.5	58.4	63.6	62.8
12.00	56.8	58.3	61.1	59.8	57.6	62.6	55.0	50.3	60.9	53.4	65.1	63.7
01.00	57.1	59.3	60.2	58.2	55.3	63.8	54.9	56.1	62.4	55.7	60.6	60.1
02.00	56.2	57.2	60.9	60.2	54.9	60.7	53.2	54.8	58.9	62.4	59.8	62.5
03.00	58.2	56.3	61.0	57.9	60.7	65.3	56.4	53.1	59.7	63.2	62.7	66.7
04.00	59.0	55.8	58.9	58.2	59.8	64.2	57.2	54.0	60.0	62.8	60.1	58.9

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05.00	54.1	57.1	59.2	61.9	58.6	59.8	54.0	55.9	60.1	61.2	63.5	59.2
06.00	53.0	58.2	57.2	62.0	58.2	61.6	53.0	54.3	61.2	64.5	61.8	60.4
07.00	58.1	54.7	60.2	59.9	57.3	58.7	52.4	52.7	64.5	63.2	59.2	61.8
08.00	57.2	56.2	61.1	62.1	62.3	59.2	51.5	50.2	63.2	62.3	58.3	58.7
09.00	59.4	58.1	59.8	59.2	62.8	61.8	51.3	51.7	60.4	61.5	59.2	59.1
10.00	58.1	51.3	60.2	61.9	64.2	62.1	50.3	49.8	59.4	58.9	60.1	60.3
Avg. SPL	57.0	56.9	59.2	59.7	59.0	62.5	53.7	52.9	61.0	59.6	62.4	63.2
Limit as per EPA Day Time Standard (6 am:10 pm) 65 dB(A)												
11.00	56.3	52.5	48.9	52.2	53.2	51.9	51.4	47.0	52.3	50.4	50.8	57.6
12.00	54.0	53.0	49.2	50.1	52.9	54.2	48.2	48.2	50.1	48.6	51.2	51.3
01.00	53.1	54.8	50.1	49.8	52.1	53.7	49.0	47.0	50.6	52.4	55.2	50.9
02.00	52.6	54.7	47.2	47.2	52.3	52.1	52.1	47.8	49.8	50.6	52.4	58.1
03.00	53.4	53.2	51.9	50.2	52.4	54.0	50.6	48.3	49.2	51.4	50.9	47.9
04.00	53.0	51.5	50.1	50.1	51.6	53.2	46.8	46.0	53.1	49.8	52.2	51.2
05.00	54.6	54.9	54.9	49.8	51.6	54.6	47.8	45.2	54.2	49.7	53.7	50.7
06.00	57.8	53.8	50.0	53.2	50.2	51.2	51.6	46.4	49.7	51.7	52.4	49.2
Avg. SPL	54.3	53.5	51.5	51.9	52.0	53.1	49.6	46.9	51.1	50.6	52.6	52.8

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Table No. 5 Noise Monitoring for DG Set

Location	May 2018
	15/05/2018
East	73.5
West	72.3
South	74.2
North	72.6

Table No. 6: Noise Level Standards

Notation	Category of Area	Std. under EP Act (dB(A))	
		Day Time	Night Time
I	Industrial Area	75	70
C	Commercial Area	65	55
R	Residential Areas	55	45

Observations:

Noise levels at all the locations of the site are observed to be within the prescribed limit (75 dB) for day time as per Environment Protection Act, 1986. Noise level monitoring is also carried out for DG Set provided at construction site & same is observed well within the prescribed limit.

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A. DRINKING WATER ANALYSIS

Project By	:	"Integrated Seawoods Commercial Complex"
Sampling Site	:	Plot No. R1, Sector 40, Nerul, Navi Mumbai - 400 706
Nature of Sample	:	Drinking Water
Period	:	January 2018 - June 2018

Table No. 7: Drinking Water Monitoring Report

Month	January 2018		February 2018		March 2018		April 2018		May 2018		June 2018		Limit
	WTP office	WTP Retail	WTP office	WTP Retail	WTP office	WTP Retail	WTP office	WTP Retail	WTP office	WTP Retail	WTP office	WTP Retail	
Date	16/01/2018		24/02/2018		24/03/2018		25/04/2018		19/05/2018		16/06/2018		
Locations	WTP office	WTP Retail	WTP office	WTP Retail	WTP office	WTP Retail	WTP office	WTP Retail	WTP office	WTP Retail	WTP office	WTP Retail	
Colour, Hazen	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Turbidity, NTU	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
pH	7.85	7.60	8.25	7.88	7.80	7.88	7.20	7.15	7.98	7.49	8.09	7.74	6.5 - 8.5
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Residual Cl ₂ , mg/l	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2
Hardness, mg/l	18	14	50	48	50	44	46	38	22	38	20	12	200
Iron, mg/l	0.23	0.14	0.02	0.03	0.02	0.03	0.05	0.04	0.01	0.01	0.01	0.01	1.0
Chloride (as Cl)	10	13	10	19	16	11	11	10	15	15	10	12	250
Fluoride, mg/l	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.0
													1.5

Reg. Office: 107, Hiren Light Industrial Estate, Mogul Lane, Mahim, Mumbai-400 016.
Tel: 022 24453998, 022 2445 6473 Fax: 022 2445 9609, Email : adityaenviro@vsnl.com

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Table No. 8: Microbiological Drinking Water Quality Report

Sr. No.	Parameter	Result												Limit As per 10500-2012	
		January 2018		February 2018		March 2018		April 2018		May 2018		June 2018			
		Office WTP	WTP Retail	Office WTP	WTP Retail	Office WTP	WTP Retail	Office WTP	WTP Retail	Office WTP	WTP Retail	Office WTP	WTP Retail		
1	Coliforms	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
2	E-coli	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

Observations:

Drinking water sample is analyzed & found that all the mention parameters are observed to be well within the prescribed limits.

Water sample is also analyzed for presence of microorganism such as coliform & E- coli & there is no presence of microorganisms are observed. Hence, water sample is found **Potable**.

ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Recognized by Ministry of Environment & Forest, Govt. Of India as "Environmental Laboratory" vide Notification S. O.983 dated 2nd May 2014

Central Lab: P-1, MIDC Commercial Plots, Mohopada, Patalganga, Dist Raigad. P.O. Rasayani - 410222
Tel. No. 02192 252008/250352
E-mail: aespvlttd@yahoo.com

E. SEWAGE WATER QUALITY ANALYSIS

Table No. 9: Sewage water Analysis Report

Sr. No.	Parameter	Result												Unit	Limit as per GSR 1265(E)
		January 2018		February 2018		March 2018		April 2018		May 2018		June 2018			
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet		
1.	pH	7.69	7.31	7.28	7.10	6.90	6.80	7.15	7.20	7.20	7.02	6.74	6.88	--	6.5-9.0
2.	SS	90	44	56	28	80	30	52	12	48	08	54	22	mg/l	< 50 mg/l
3.	BOD	24	10	260	14	200	16	32	16	28	06	120	14	mg/l	< 20 mg/l
4.	Oil & Grease	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	mg/l	--mg/l
5.	Residual chlorine	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	mg/l	--mg/l
6.	Detergent	ND	ND	ND	ND	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	mg/l	--mg/l

Observation:

Sewage water sample from Inlet & Outlet is analyzed. Treated water sample from outlet is found within the prescribed limits.

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Table No. 10. MICROBIOLOGICAL SEWAGE WATER QUALITY REPORT

Sr. No.	Parameter	Result												Unit	Limit
		January 2018		February 2018		March 2018		April 2018		May 2018		June 2018			
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet		
1.	Fecal Coliforms	≥1600	710	≥1600	500	≥1600	500	>1600	<1.8	>1600	500	>1600	440	Organisms per 100 ml	< 1000

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Tel. No. 02192 252008/250352
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F. SOIL QUALITY ANALYSIS

Project By	:	"Integrated Seawoods Commercial Complex"
Sampling Site	:	Plot No. R1, Sector 40, Nerul, Navi Mumbai - 400 706
Nature of Sample	:	Soil
Period	:	January 2018 - June 2018

Table No. 11: Soil Quality Report

Sr. No.	Parameter	Result		Unit
		May 2018		
		21/05/2018		
1.	pH	6.65		--
2.	Appearance	Brown		--
3.	Texture	Clay	65.4	%
		Silt	0.57	
		Fine sand	34.03	
4.	TOC	0.25		%
5.	TKN	BDL		%
6.	Ca	54		mg/kg
7.	Phosphorus	BDL		mg/kg
8.	Cu	02		mg/kg
9.	K	12		mg/kg
10.	Cd	BDL		mg/kg
11.	Pb	BDL		mg/kg
12.	Zn	BDL		mg/kg
13.	Fe	0.32		mg/kg
14.	Conductivity	212.54		µS/cm

Observation:

There is no presence of heavy metal in soil sample tested hence, it can be state that there is no contamination of soil due to construction activities at site.