Hubert Enviro Care Systems Limited
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-17475

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by CPCB (MoEF & CC)
BIS FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

ULR : TC174752600015637F
Report No. : HECS/AP/018/170426
Sample ID No : 170426069
Sampling Date : 17/04/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : Near Main Security Gate
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 17/04/2026
Commenced Date : 17/04/2026
Completed On : 24/04/2026
Report Date : 24/04/2026
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)
2	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
3	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
4	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
5	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
6	Ammonia as NH3	µg/m³	6.41	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
7	Carbon Monoxide (CO)	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
8	Nitrogen dioxides as NO2	µg/m³	22.82	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
9	Ozone as O3	µg/m³	13.71	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
10	Particulate matter (Size less than 10 µm)	µg/m³	49.58	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
11	Particulate matter (Size less than 2.5 µm)	µg/m³	20.64	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
12	Sulphur dioxide as SO2	µg/m³	10.19	IS 5182 (Part 2) 2023	80 (24 hours)	50 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

G.Saravanan
Senior Chemist
Authorized Signatory

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TEST REPORT

ULR : TC174752600001 5640F
Report No. : HECSL/WT/019/170426
Sample ID No : 170426072
Sampling Date : 17/04/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 17/04/2026
Commenced Date : 17/04/2026
Completed On : 24/04/2026
Report Date : 24/04/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Magnesium as Mg	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 46: 2023	30	100
2	Total Alkalinity (as CaCO3)	mg/l	10.0	IS 3025 (Part 23): 2023	200	600
3	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 : Part 34 : Sec 1: 2023	0.5	No relaxation
4	Calcium as Ca	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part 40): 2024(EDTA titrimetric method)	75	200
5	Chloride as Cl	mg/l	8.91	IS 3025 (Part 32): 1988 (Argentometric method)	250	1000
6	Collodal silica as SiO2	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
7	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
8	Electrical Conductivity at 25°C	µS/cm	40.0	IS 3025:(Part-14): 2013	NA	NA
9	Fluoride as F	mg/l	BLQ(LOQ:0.2)	IS 3025 Part 60 Sec1 : 2023	1.0	1.5
10	Iron as Fe	mg/l	BLQ(LOQ:0.01)	APHA 24 th edition (Method 3500 Fe B & 3111 B) : 2023	1.0	No relaxation
11	Nitrate as NO3	mg/l	BLQ(LOQ:1.0)	IS 3025 Part 34 Sec 1: 2023	45	No relaxation
12	pH at 25°C	-	6.58	IS 3025(Part 11): 2022	6.5-8.5	No relaxation

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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TEST REPORT

ULR : TC174752600001 5640F
Report No. : HECSL/WT/19/170426
Sample ID No : 170426072
Sampling Date : 17/04/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 17/04/2026
Commenced Date : 17/04/2026
Completed On : 24/04/2026
Report Date : 24/04/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Reactive silica as SiO2	mg/l	0.8	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
14	Sulphate as SO4	mg/l	BLQ(LOQ:1.0)	IS 3025 : Part 24 : Sec 1: 2022	200	400
15	Total dissolved solids	mg/l	22.0	IS 3025 (Part 16): 2023	500	2000
16	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 2022	NA	NA
17	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025 Part 10: 2023	1	5
18	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
19	Total hardness as CaCO3	mg/l	2.0	IS 3025 (Part 21): 2009	200	600
20	Silica as SiO2	mg/l	0.9	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/l- Milligrams per litre.

End of Report

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED
Chennai
600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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TEST REPORT

ULR : TC174752600001 5644F
Report No. : HECS/PE/025/170426
Sample ID No : 170426076
Sampling Date : 17/04/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West Side of Construction Building
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 17/04/2026
Commenced Date : 17/04/2026
Completed On : 24/04/2026
Report Date : 24/04/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/kg	9.46	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/kg	14.22	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Lead	mg/kg	2.67	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Nickel	mg/kg	7.30	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
6	Zinc	mg/kg	19.42	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
7	pH Value @ 25 ° C (1 : 2.5)	-	9.08	IS 2720 (Part 26) 1987
8	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	146.8	IS 14767: 2000
9	Organic Matter	%	0.86	IS 2720 (Part 22) Section I 1972
10	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
11	Available Potassium	mEq/100g	15.08	FAO of United Nations, Rome Chapter - III 2008

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G.Saravanan
Senior Chemist
Authorized Signatory

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TEST REPORT

ULR : TC174752600001 5644F
Report No. : HECS/PE/025/170426
Sample ID No : 170426076
Sampling Date : 17/04/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West Side of Construction Building
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 17/04/2026
Commenced Date : 17/04/2026
Completed On : 24/04/2026
Report Date : 24/04/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
12	Chlorides	mEq/L	13.16	FAO of United Nations Rome 2007
13	Total Nitrogen as N	%	0.0118	IS 14684 Clause 4 1999
14	Sulphate	mg/100g	12.92	IS 2720 Part 27 Clause 4 1977
15	Sodium Absorbtion Ratio	Square root of (millimole/litre)	3.4	HECS-G/ENV/SSW/SOP/010 Issue No.:01 Issue Date:02.07: 2020
16	Exchangable Calcium as Ca	mEq/L	28.54	FAO of United Nations, Rome Chapter - III 2008
17	Exchangable Magnesium as Mg	mEq/L	23.04	FAO of United Nations, Rome Chapter - III 2008
18	Available Sodium as Na	mg/kg	368.42	International Centre for Agriculture Research (ICARDA): 2013
19	Cation Exchange Capacity	mEq/100g	3.2	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	18.76	IS 14765: 2000
21	Nitrate	µg/g	15.90	FAO of United Nations, Rome Chapter - III 2008
22	Gypsum	%	0.24	Methods of soil,plant and water analysis - ICARDA : 2013

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilograms, % - Percentage.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Senior Chemist
Authorized Signatory

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TEST REPORT

ULR : TC174752600001 5636F
Report No. : HECS/AP/017/170426
Sample ID No : 170426068
Sampling Date : 17/04/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.

Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : Ambient Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 9989 : 1981

Received Date : 17/04/2026
Commenced Date : 17/04/2026
Completed On : 22/04/2026
Report Date : 24/04/2026
Sample Qty : NA

S.No.	Location	Time (Hrs)	Noise Level in dB(A)
1	Near East Side of Construction Area	11.00	54.0
2	Near West Side of Construction Area	11.10	53.3
3	Near Main Gate Area	11.20	54.2
4	Near North Side of Construction Area	11.30	54.3
5	Near Office Cabin Area	11.40	53.7

Limits set by CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area: Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).

End of Report

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G.Saravanan
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TEST REPORT

ULR : TC174752600002 3151F
Report No. : HECS/AP/120/300526
Sample ID No : 300526201
Sampling Date : 30/05/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : Near Main Security Gate
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 30/05/2026
Commenced Date : 30/05/2026
Completed On : 05/06/2026
Report Date : 05/06/2026
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)
2	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
3	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
4	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
5	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
6	Ammonia as NH3	µg/m³	8.52	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
7	Carbon Monoxide (CO)	mg/m³	BLQ (LOQ: 0.05)	IS 5182 (Part 10) Clause 4	4 (1 hours)	2 (8 hours)
8	Nitrogen dioxides as NO2	µg/m³	25.03	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
9	Ozone as O3	µg/m³	11.36	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
10	Particulate matter (Size less than 10 µm)	µg/m³	52.82	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
11	Particulate matter (Size less than 2.5 µm)	µg/m³	23.47	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
12	Sulphur dioxide as SO2	µg/m³	9.15	IS 5182 (Part 2) 2023	80 (24 hours)	50 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

ENVIRO CARE SYSTEMS Chennai 600 032

G.Saravanan
Senior Chemist
Authorized Signatory

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TEST REPORT

ULR : TC174752600002 3155F
Report No. : HECS/AP/124/300526
Sample ID No : 300526209
Sampling Date : 30/05/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : DG Stack Emission below 800 KVA
Sample Mark : DG I - 82.5 KVA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 11255

Received Date : 30/05/2026
Commenced Date : 30/05/2026
Completed Date : 05/06/2026
Report Date : 05/06/2026
Sample Qty : NA

Stack Details

S.No.	Particulars	Units	Stack Specification
1	Stack Height	Meter	3.0
2	Stack Diameter	Meter	0.1

Discipline : Chemical

S.No.	Test Parameters	Units	Results	Test Method	CPCB Standards
1	Carbon dioxide (CO2)	%	12.8	ASTM Method D6522 (by Flue gas Analyzer) 2000	NA
2	Carbon Monoxide (CO)	g/kW-hr	BLQ(LOQ 0.01)	HECSG/ENV/SE/SOP/006 Issue No.:01 Issue Date:01:12: 2022	≤ 3.5
3	Flue Gas Discharge (Flow Rate)	Nm^3/hr	127.0	IS 11255 (Part 3) Clause 6 : 2008	NA
4	Flue Gas Temperature	°C	75.0	IS 11255 (Part 3) Clause 6 : 2008	NA
5	Flue Gas Velocity	m/s	5.8	IS 11255 (Part 3) Clause 10 : 2008	NA
6	Particulate matter (PM)	g/kW-hr	0.065	HECS-G/ENV/SE/SOP/005 Issue No.:01 Issue Date:01:12:2022	≤ 0.2
7	Oxides of Nitrogen + Hydro Carbon	g/kW-hr	0.424	HECS-G/ENV/SE/SOP/002 Issue No./ Date 01/01:03 2021	≤ 4.0(NOx+HC)
8	Sulphur dioxide (SO2)	mg/Nm^3	8.69	IS 11255 (Part 2) : 1985	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, %- Percentage, m/s- Meter per second, Nm^3/hr - Normal cubic meter per hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

Chennai 600 032

G.Saravanan
Senior Chemist
Authorized Signatory

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TC-17475

Laboratory Services Division
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TEST REPORT

ULR : TC174752600002 3207F
Report No. : HECSL/WT/034/300526
Sample ID No : 300526207
Sampling Date : 30/05/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 30/05/2026
Commenced Date : 30/05/2026
Completed On : 06/06/2026
Report Date : 06/06/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Magnesium as Mg	mg/l	19.44	IS 3025 Part 46: 2023	30	100
2	Total Alkalinity (as CaCO3)	mg/l	150.0	IS 3025 (Part 23): 2023	200	600
3	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 : Part 34 : Sec 1: 2023	0.5	No relaxation
4	Calcium as Ca	mg/l	36.07	IS 3025 (Part 40): 2024(EDTA titrimetric method)	75	200
5	Chloride as Cl	mg/l	118.77	IS 3025 (Part 32): 1988 (Argentometric method)	250	1000
6	Collodal silica as SiO2	mg/l	0.26	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
7	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
8	Electrical Conductivity at 25°C	µS/cm	768.0	IS 3025:(Part-14): 2013	NA	NA
9	Fluoride as F	mg/l	0.44	IS 3025 Part 60 Sec1 : 2023	1.0	1.5
10	Iron as Fe	mg/l	BLQ(LOQ:0.01)	APHA 24 th edition (Method 3500 Fe B & 3111 B) : 2023	1.0	No relaxation
11	Nitrate as NO3	mg/l	3.90	IS 3025 Part 34 Sec 1: 2023	45	No relaxation
12	pH at 25°C	-	7.83	IS 3025(Part 11): 2022	6.5-8.5	No relaxation

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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TEST REPORT

ULR : TC174752600002 3207F
Report No. : HECSL/WT/34/300526
Sample ID No : 300526207
Sampling Date : 30/05/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 30/05/2026
Commenced Date : 30/05/2026
Completed On : 06/06/2026
Report Date : 06/06/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Reactive silica as SiO2	mg/l	15.24	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
14	Sulphate as SO4	mg/l	41.3	IS 3025 : Part 24 : Sec 1: 2022	200	400
15	Total dissolved solids	mg/l	392.0	IS 3025 (Part 16): 2023	500	2000
16	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 2022	NA	NA
17	Turbidity	NTU	BLQ(LOQ:.1)	IS 3025 Part 10: 2023	1	5
18	Phosphate as PO4	mg/l	0.085	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
19	Total hardness as CaCO3	mg/l	170.0	IS 3025 (Part 21): 2009	200	600
20	Silica as SiO2	mg/l	15.5	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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TEST REPORT

ULR : TC1747526000023571F
Report No. : HECS/PE/044/300526
Sample ID No : 300526206
Sampling Date : 30/05/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West Side of Construction Building
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 30/05/2026
Commenced Date : 30/05/2026
Completed On : 08/06/2026
Report Date : 08/06/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/kg	1.33	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/kg	2.41	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Lead	mg/kg	3.19	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Nickel	mg/kg	18.14	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
6	Zinc	mg/kg	3.16	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
7	pH Value @ 25 ° C (1 : 2.5)	-	9.13	IS 2720 (Part 26) 1987
8	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	140.6	IS 14767: 2000
9	Organic Matter	%	0.83	IS 2720 (Part 22) Section I 1972
10	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
11	Available Potassium	mEq/100g	13.92	FAO of United Nations, Rome Chapter - III 2008

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Senior Chemist
Authorized Signatory

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TEST REPORT

ULR : TC174752600002357 1F
Report No. : HECS/PE/044/300526
Sample ID No : 300526206
Sampling Date : 30/05/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West Side of Construction Building
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 30/05/2026
Commenced Date : 30/05/2026
Completed On : 08/06/2026
Report Date : 08/06/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
12	Chlorides	mEq/L	16.73	FAO of United Nations Rome 2007
13	Total Nitrogen as N	%	0.0110	IS 14684 Clause 4 1999
14	Sulphate	mg/100g	10.84	IS 2720 Part 27 Clause 4 1977
15	Sodium Absorbtion Ratio	Square root of (millimole/litre)	3.1	HECS-G/ENV/SSW/SOP/010 Issue No.:01 Issue Date:02.07: 2020
16	Exchangable Calcium as Ca	mEq/L	25.89	FAO of United Nations, Rome Chapter - III 2008
17	Exchangable Magnesium as Mg	mEq/L	21.79	FAO of United Nations, Rome Chapter - III 2008
18	Available Sodium as Na	mg/kg	360.64	International Centre for Agriculture Research (ICARDA): 2013
19	Cation Exchange Capacity	mEq/100g	3.0	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	15.93	IS 14765: 2000
21	Nitrate	µg/g	13.82	FAO of United Nations, Rome Chapter - III 2008
22	Gypsum	%	0.21	Methods of soil,plant and water analysis - ICARDA : 2013

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilograms, % - Percentage.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Senior Chemist
Authorized Signatory

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TEST REPORT

ULR : TC174752600002 3153F
Report No. : HECS/AP/122/300526
Sample ID No : 300526203
Sampling Date : 30/05/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : Ambient Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 9989 : 1981

Received Date : 30/05/2026
Commenced Date : 30/05/2026
Completed On : 05/06/2026
Report Date : 05/06/2026
Sample Qty : NA

S.No.	Location	Time (Hrs)	Noise Level in dB(A)
1	Near East Side of Construction Area	11.30	53.5
2	Near West Side of Construction Area	11.40	52.4
3	Near Main Gate Area	11.50	53.2
4	Near North Side of Construction Area	12.00	54.0
5	Near Office Cabin Area	12.10	53.3

Limits set by CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area: Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

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Authorized Signatory

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TEST REPORT

ULR : TC174752600002 3154F
Report No. : HECS/AP/123/300526
Sample ID No : 300526204
Sampling Date : 30/05/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : DG Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 9989 : 1981

Received Date : 30/05/2026
Commenced Date : 30/05/2026
Completed Date : 05/06/2026
Report Date : 05/06/2026
Sample Qty : NA

S.No	Location	Time (Hrs)	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG-I 82.5 KVA Door Open	12.20	99.8	75 Max
2	DG-I 82.5 KVA Door Close (1 m distance from Acoustic room)	12.30	73.4	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Senior Chemist
Authorized Signatory

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TEST REPORT

ULR : TC174752600002577 8F
Report No. : HECS/AP/015/160626
Sample ID No : 160626043
Sampling Date : 16/06/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : Near Main Security Gate
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 16/06/2026
Commenced Date : 16/06/2026
Completed On : 23/06/2026
Report Date : 23/06/2026
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)
2	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
3	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
4	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
5	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
6	Ammonia as NH3	µg/m³	6.24	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
7	Carbon Monoxide (CO)	mg/m³	BLQ (LOQ: 0.05)	IS 5182 (Part 10) Clause 4	4 (1 hours)	2 (8 hours)
8	Nitrogen dioxides as NO2	µg/m³	24.08	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
9	Ozone as O3	µg/m³	13.32	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
10	Particulate matter (Size less than 10 µm)	µg/m³	55.63	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
11	Particulate matter (Size less than 2.5 µm)	µg/m³	25.59	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
12	Sulphur dioxide as SO2	µg/m³	11.27	IS 5182 (Part 2) 2023	80 (24 hours)	50 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HECS ENVIRO CARE SYSTEMS Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600002 5751F
Report No. : HECS/AP/019/160626
Sample ID No : 160626047
Sampling Date : 16/06/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : DG Stack Emission below 800 KVA
Sample Mark : DG I - 82.5 KVA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 11255

Received Date : 16/06/2026
Commenced Date : 16/06/2026
Completed Date : 20/06/2026
Report Date : 22/06/2026
Sample Qty : NA

Stack Details

S.No.	Particulars	Units	Stack Specification
1	Stack Height	Meter	3.0
2	Stack Diameter	Meter	0.1

Discipline : Chemical

S.No.	Test Parameters	Units	Results	Test Method	CPCB Standards
1	Carbon dioxide (CO2)	%	13.3	ASTM Method D6522 (by Flue gas Analyzer) 2000	NA
2	Carbon Monoxide (CO)	g/kW-hr	BLQ(LOQ 0.01)	HECSG/ENV/SE/SOP/006 Issue No.:01 Issue Date:01:12: 2022	≤ 3.5
3	Flue Gas Discharge (Flow Rate)	Nm^3/hr	139.0	IS 11255 (Part 3) Clause 6 : 2008	NA
4	Flue Gas Temperature	°C	69.0	IS 11255 (Part 3) Clause 6 : 2008	NA
5	Flue Gas Velocity	m/s	6.2	IS 11255 (Part 3) Clause 10 : 2008	NA
6	Particulate matter (PM)	g/kW-hr	0.059	HECS-G/ENV/SE/SOP/005 Issue No.:01 Issue Date:01:12:2022	≤ 0.2
7	Oxides of Nitrogen + Hydro Carbon	g/kW-hr	0.389	HECS-G/ENV/SE/SOP/002 Issue No./ Date 01/01:03 2021	≤ 4.0(NOx+HC)
8	Sulphur dioxide (SO2)	mg/Nm^3	12.47	IS 11255 (Part 2) : 1985	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, %- Percentage, m/s- Meter per second, Nm^3/hr - Normal cubic meter per hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600002 5625F
Report No. : HECSL/WT/014/160626
Sample ID No : 160626058
Sampling Date : 16/06/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 16/06/2026
Commenced Date : 16/06/2026
Completed On : 20/06/2026
Report Date : 22/06/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Magnesium as Mg	mg/l	19.44	IS 3025 Part 46: 2023	30	100
2	Total Alkalinity (as CaCO3)	mg/l	180.0	IS 3025 (Part 23): 2023	200	600
3	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 : Part 34 : Sec 1: 2023	0.5	No relaxation
4	Calcium as Ca	mg/l	44.09	IS 3025 (Part 40): 2024(EDTA titrimetric method)	75	200
5	Chloride as Cl	mg/l	148.46	IS 3025 (Part 32): 1988 (Argentometric method)	250	1000
6	Colloidal silica as SiO2	mg/l	0.51	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
7	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
8	Electrical Conductivity at 25°C	µS/cm	892.0	IS 3025:(Part-14): 2013	NA	NA
9	Fluoride as F	mg/l	0.43	IS 3025 Part 60 Sec1 : 2023	1.0	1.5
10	Iron as Fe	mg/l	0.018	APHA 24 th edition (Method 3500 Fe B & 3111 B) : 2023	1.0	No relaxation
11	Nitrate as NO3	mg/l	4.61	IS 3025 Part 34 Sec 1: 2023	45	No relaxation
12	pH at 25°C	-	7.78	IS 3025(Part 11): 2022	6.5-8.5	No relaxation

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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TC-17475

Laboratory Services Division
(Chemical & Biological Testing)
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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

ULR : TC174752600002 5625F
Report No. : HECSL/WT/14/160626
Sample ID No : 160626058
Sampling Date : 16/06/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 16/06/2026
Commenced Date : 16/06/2026
Completed On : 20/06/2026
Report Date : 22/06/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Reactive silica as SiO2	mg/l	19.49	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
14	Sulphate as SO4	mg/l	65.3	IS 3025 : Part 24 : Sec 1: 2022	200	400
15	Total dissolved solids	mg/l	495.0	IS 3025 (Part 16): 2023	500	2000
16	Total Suspended Solids	mg/l	6.0	IS 3025 (Part 17): 2022	NA	NA
17	Turbidity	NTU	0.9	IS 3025 Part 10: 2023	1	5
18	Phosphate as PO4	mg/l	0.19	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
19	Total hardness as CaCO3	mg/l	190.0	IS 3025 (Part 21): 2009	200	600
20	Silica as SiO2	mg/l	19.57	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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TEST REPORT

ULR : TC174752600002 5763F
Report No. : HECS/PE/016/160626
Sample ID No : 160626062
Sampling Date : 16/06/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West Side of Construction Building
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 16/06/2026
Commenced Date : 16/06/2026
Completed Date : 22/06/2026
Report Date : 22/06/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/kg	0.27	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/kg	5.39	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Lead	mg/kg	21.7	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Nickel	mg/kg	12.46	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
6	Zinc	mg/kg	4.68	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
7	pH Value @ 25 ° C (1 : 2.5)	-	8.92	IS 2720 (Part 26) 1987
8	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	131.8	IS 14767: 2000
9	Organic Matter	%	0.79	IS 2720 (Part 22) Section I 1972
10	Available Phosphorous as P	µg/g	BLQ(LOQ5.0)	FAO of United Nations, Rome Chapter - III 2008
11	Available Potassium	mEq/100g	15.04	FAO of United Nations, Rome Chapter - III 2008

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600002 5763F
Report No. : HECS/PE/016/160626
Sample ID No : 160626062
Sampling Date : 16/06/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West Side of Construction Building
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 16/06/2026
Commenced Date : 16/06/2026
Completed Date : 22/06/2026
Report Date : 22/06/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
12	Chlorides	mEq/L	19.22	FAO of United Nations Rome 2007
13	Total Nitrogen as N	%	0.0124	IS 14684 Clause 4 1999
14	Sulphate	mg/100g	8.76	IS 2720 Part 27 Clause 4 1977
15	Sodium Absorbtion Ratio	Square root of (millimole/litre)	3.4	HECS-G/ENV/SSW/SOP/010 Issue No.:01 Issue Date:02.07: 2020
16	Exchangable Calcium as Ca	mEq/L	27.09	FAO of United Nations, Rome Chapter - III 2008
17	Exchangable Magnesium as Mg	mEq/L	23.82	FAO of United Nations, Rome Chapter - III 2008
18	Available Sodium as Na	mg/kg	356.30	International Centre for Agriculture Research (ICARDA): 2013
19	Cation Exchange Capacity	mEq/100g	3.3	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	12.08	IS 14765: 2000
21	Nitrate	µg/g	14.92	FAO of United Nations, Rome Chapter - III 2008
22	Gypsum	%	0.23	Methods of soil,plant and water analysis - ICARDA : 2013

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilograms, % - Percentage.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

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Technical Manager-Environmental
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TEST REPORT

ULR : TC174752600002575 8F
Report No. : HECS/AP/026/160626
Sample ID No : 160626054
Sampling Date : 16/06/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.

Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : Ambient Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 9989 : 1981

Received Date : 16/06/2026
Commenced Date : 16/06/2026
Completed Date : 20/06/2026
Report Date : 22/06/2026
Sample Qty : NA

S.No.	Location	Time (Hrs)	Noise Level in dB(A)
1	Near East Side of Construction Area	10.10	54.0
2	Near West Side of Construction Area	10.20	54.4
3	Near Main Gate Area	10.30	53.5
4	Near North Side of Construction Area	10.40	53.8
5	Near Office Cabin Area	10.50	54.3

Limits set by CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area: Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

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TEST REPORT

ULR : TC174752600002575 9F
Report No. : HECS/AP/027/160626
Sample ID No : 160626056
Sampling Date : 16/06/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.

Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : DG Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 9989 : 1981

Received Date : 16/06/2026
Commenced Date : 16/06/2026
Completed Date : 20/06/2026
Report Date : 22/06/2026
Sample Qty : NA

S.No	Location	Time (Hrs)	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG-I 82.5 KVA Door Open	11.00	99.6	75 Max
2	DG-I 82.5 KVA Door Close (1 m distance from Acoustic room)	11.10	72.9	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

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TEST REPORT

ULR : TC174752600029961
Report No. : HECS/AP/043/080726
Sample ID No : 080726083
Sampling Date : 08/07/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution

Received Date : 08/07/2026

Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : Near Main Security Gate
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Commenced Date : 08/07/2026
Completed On : 14/07/2026
Report Date : 14/07/2026
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)
2	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
3	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
4	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
5	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
6	Ammonia as NH3	µg/m³	8.10	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
7	Carbon Monoxide (CO)	mg/m³	BLQ (LOQ: 0.05)	IS 5182 (Part 10) Clause 4	4 (1 hours)	2 (8 hours)
8	Nitrogen dioxides as NO2	µg/m³	21.75	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
9	Ozone as O3	µg/m³	10.36	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
10	Particulate matter (Size less than 10 µm)	µg/m³	52.98	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
11	Particulate matter (Size less than 2.5 µm)	µg/m³	23.25	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
12	Sulphur dioxide as SO2	µg/m³	9.61	IS 5182 (Part 2) 2023	80 (24 hours)	50 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

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TEST REPORT

ULR : TC174752600029963
Report No. : HECS/AP/45/080726

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : DG Stack Emission below 800 KVA
Sample Mark : DG I - 82.5 KVA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 56.0
Sampling Method & Plan : IS 11255

Sample ID No : 080726085
Sampling Date : 08/07/2026
Received Date : 08/07/2026
Commenced Date : 08/07/2026
Completed Date : 13/07/2026
Report Date : 14/07/2026
Sample Qty : NA

Stack Details

S.No.	Particulars	Units	Stack Specification
1	Stack Height	Meter	3.0
2	Stack Diameter	Meter	0.1

Discipline : Chemical

S.No.	Test Parameters	Units	Results	Test Method	CPCB Standards
1	Carbon dioxide (CO2)	%	10.9	ASTM Method D6522 (by Flue gas Analyzer) 2000	NA
2	Carbon Monoxide (CO)	g/kW-hr	BLQ(LOQ 0.01)	HECSG/ENV/SE/SOP/006 Issue No.:01 Issue Date:01:12: 2022	≤ 3.5
3	Flue Gas Discharge (Flow Rate)	Nm^3/hr	153.0	IS 11255 (Part 3) Clause 6 : 2008	NA
4	Flue Gas Temperature	°C	75.0	IS 11255 (Part 3) Clause 6 : 2008	NA
5	Flue Gas Velocity	m/s	6.9	IS 11255 (Part 3) Clause 10 : 2008	NA
6	Particulate matter (PM)	g/kW-hr	0.071	HECS-G/ENV/SE/SOP/005 Issue No.:01 Issue Date:01:12:2022	≤ 0.2
7	Oxides of Nitrogen + Hydro Carbon	g/kW-hr	0.448	HECS-G/ENV/SE/SOP/002 Issue No./ Date 01/01:03 2021	≤ 4.0(NOx+HC)
8	Sulphur dioxide (SO2)	mg/Nm^3	8.20	IS 11255 (Part 2) : 1985	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, %- Percentage, m/s- Meter per second, Nm^3/hr - Normal cubic meter per hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600029316
Report No. : HECSL/WT/026/080726
Sample ID No : 080726086
Sampling Date : 08/07/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 08/07/2026
Commenced Date : 08/07/2026
Completed On : 10/07/2026
Report Date : 10/07/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Magnesium as Mg	mg/l	17.01	IS 3025 Part 46: 2023	30	100
2	Total Alkalinity (as CaCO3)	mg/l	170.0	IS 3025 (Part 23): 2023	200	600
3	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 : Part 34 : Sec 1: 2023	0.5	No relaxation
4	Calcium as Ca	mg/l	36.07	IS 3025 (Part 40): 2024(EDTA titrimetric method)	75	200
5	Chloride as Cl	mg/l	133.61	IS 3025 (Part 32): 1988 (Argentometric method)	250	1000
6	Colloidal silica as SiO2	mg/l	0.48	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
7	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
8	Electrical Conductivity at 25°C	µS/cm	817.0	IS 3025:(Part-14): 2013	NA	NA
9	Fluoride as F	mg/l	0.37	IS 3025 Part 60 Sec1 : 2023	1.0	1.5
10	Iron as Fe	mg/l	0.097	APHA 24 th edition (Method 3500 Fe B & 3111 B) : 2023	1.0	No relaxation
11	Nitrate as NO3	mg/l	5.67	IS 3025 Part 34 Sec 1: 2023	45	No relaxation
12	pH at 25°C	-	7.72	IS 3025(Part 11): 2022	6.5-8.5	No relaxation

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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TC-17475

Laboratory Services Division
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TEST REPORT

ULR : TC174752600029316
Report No. : HECSL/WT/26/080726
Sample ID No : 080726086
Sampling Date : 08/07/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 08/07/2026
Commenced Date : 08/07/2026
Completed On : 10/07/2026
Report Date : 10/07/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Reactive silica as SiO2	mg/l	17.50	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
14	Sulphate as SO4	mg/l	58.21	IS 3025 : Part 24 : Sec 1: 2022	200	400
15	Total dissolved solids	mg/l	452.0	IS 3025 (Part 16): 2023	500	2000
16	Total Suspended Solids	mg/l	3.0	IS 3025 (Part 17): 2022	NA	NA
17	Turbidity	NTU	1.2	IS 3025 Part 10: 2023	1	5
18	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
19	Total hardness as CaCO3	mg/l	160.0	IS 3025 (Part 21): 2009	200	600
20	Silica as SiO2	mg/l	17.98	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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TEST REPORT

ULR : TC174752600029965
Report No. : HECS/PE/009/080726
Sample ID No : 080726089
Sampling Date : 08/07/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West Side of Construction Building
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 53.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 08/07/2026
Commenced Date : 08/07/2026
Completed Date : 14/07/2026
Report Date : 14/07/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/kg	0.22	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/kg	4.34	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Lead	mg/kg	20.6	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Nickel	mg/kg	11.37	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
6	Zinc	mg/kg	5.47	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
7	pH Value @ 25 ° C (1 : 2.5)	-	8.74	IS 2720 (Part 26) 1987
8	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	149.6	IS 14767: 2000
9	Organic Matter	%	0.76	IS 2720 (Part 22) Section I 1972
10	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
11	Available Potassium	mEq/100g	14.36	FAO of United Nations, Rome Chapter - III 2008

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600029965
Report No. : HECS/PE/009/080726
Sample ID No : 080726089
Sampling Date : 08/07/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West Side of Construction Building
Environmental Condition : Temperature (°C) : 28.0 | Humidity (%) : 53.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 08/07/2026
Commenced Date : 08/07/2026
Completed Date : 14/07/2026
Report Date : 14/07/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
12	Chlorides	mEq/L	17.14	FAO of United Nations Rome 2007
13	Total Nitrogen as N	%	0.0138	IS 14684 Clause 4 1999
14	Sulphate	mg/100g	10.82	IS 2720 Part 27 Clause 4 1977
15	Sodium Absorbtion Ratio	Square root of (millimole/litre)	3.14	HECS-G/ENV/SSW/SOP/010 Issue No.:01 Issue Date:02.07: 2020
16	Exchangable Calcium as Ca	mEq/L	24.16	FAO of United Nations, Rome Chapter - III 2008
17	Exchangable Magnesium as Mg	mEq/L	20.24	FAO of United Nations, Rome Chapter - III 2008
18	Available Sodium as Na	mg/kg	341.26	International Centre for Agriculture Research (ICARDA): 2013
19	Cation Exchange Capacity	mEq/100g	3.1	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	11.92	IS 14765: 2000
21	Nitrate	µg/g	12.88	FAO of United Nations, Rome Chapter - III 2008
22	Gypsum	%	0.2072	Methods of soil,plant and water analysis - ICARDA : 2013

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilograms, % - Percentage.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

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TEST REPORT

ULR : TC174752600029959
Report No. : HECS/AP/041/080726
Sample ID No : 080726081
Sampling Date : 08/07/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.

Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : Ambient Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 9989 : 1981

Received Date : 08/07/2026
Commenced Date : 08/07/2026
Completed Date : 13/07/2026
Report Date : 14/07/2026
Sample Qty : NA

S.No.	Location	Time (Hrs)	Noise Level in dB(A)
1	Near East Side of Construction Area	10.30	53.5
2	Near West Side of Construction Area	10.40	54.3
3	Near Main Gate Area	10.50	53.8
4	Near North Side of Construction Area	11.00	53.5
5	Near Office Cabin Area	11.10	54.4

Limits set by CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area: Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).

End of Report

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TEST REPORT

ULR : TC174752600029960
Report No. : HECS/AP/042/080726
Sample ID No : 080726082
Sampling Date : 08/07/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.

Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : DG Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 9989 : 1981

Received Date : 08/07/2026
Commenced Date : 08/07/2026
Completed Date : 13/07/2026
Report Date : 14/07/2026
Sample Qty : NA

S.No	Location	Time (Hrs)	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG-I 82.5 KVA Door Open	11.20	98.3	75 Max
2	DG-I 82.5 KVA Door Close (1 m distance from Acoustic room)	11.30	73.7	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600040136
Report No. : HECS/AP/295/310826
Sample ID No : 310826678
Sampling Date : 31/08/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : Near Main Security Gate
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 31/08/2026
Commenced Date : 31/08/2026
Completed On : 08/09/2026
Report Date : 08/09/2026
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)
2	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
3	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
4	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
5	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
6	Ammonia as NH3	µg/m³	6.79	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
7	Carbon Monoxide (CO)	mg/m³	BLQ (LOQ: 0.05)	IS 5182 (Part 10) Clause 4	4 (1 hours)	2 (8 hours)
8	Nitrogen dioxides as NO2	µg/m³	23.04	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
9	Ozone as O3	µg/m³	12.86	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
10	Particulate matter (Size less than 10 µm)	µg/m³	50.47	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
11	Particulate matter (Size less than 2.5 µm)	µg/m³	22.31	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
12	Sulphur dioxide as SO2	µg/m³	8.68	IS 5182 (Part 2) 2023	80 (24 hours)	50 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600040138
Report No. : HECS/AP/297/310826

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.

Group : Atmospheric Pollution
Sample Name : DG Stack Emission below 800 KVA
Sample Mark : DG I - 82.5 KVA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 11255

Sample ID No : 310826680
Sampling Date : 31/08/2026
Received Date : 31/08/2026
Commenced Date : 31/08/2026
Completed Date : 08/09/2026
Report Date : 08/09/2026
Sample Qty : NA

Stack Details

S.No.	Particulars	Units	Stack Specification
1	Stack Height	Meter	3.0
2	Stack Diameter	Meter	0.1

Discipline : Chemical

S.No.	Test Parameters	Units	Results	Test Method	CPCB Standards
1	Carbon dioxide (CO2)	%	11.4	ASTM Method D6522 (by Flue gas Analyzer) 2000	NA
2	Carbon Monoxide (CO)	g/kW-hr	BLQ(LOQ 0.01)	HECSG/ENV/SE/SOP/006 Issue No.:01 Issue Date:01:12: 2022	≤ 3.5
3	Flue Gas Discharge (Flow Rate)	Nm^3/hr	159.0	IS 11255 (Part 3) Clause 6 : 2008	NA
4	Flue Gas Temperature	°C	79.0	IS 11255 (Part 3) Clause 6 : 2008	NA
5	Flue Gas Velocity	m/s	7.3	IS 11255 (Part 3) Clause 10 : 2008	NA
6	Particulate matter (PM)	g/kW-hr	0.066	HECS-G/ENV/SE/SOP/005 Issue No.:01 Issue Date:01:12:2022	≤ 0.2
7	Oxides of Nitrogen + Hydro Carbon	g/kW-hr	0.469	HECS-G/ENV/SE/SOP/002 Issue No./ Date 01/01:03 2021	≤ 4.0(NOx+HC)
8	Sulphur dioxide (SO2)	mg/Nm^3	11.27	IS 11255 (Part 2) : 1985	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, %- Percentage, m/s- Meter per second, Nm^3/hr - Normal cubic meter per hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

HECS ENVIRO CARE SYSTEMS Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600040143
Report No. : HECSL/WT/242/310826
Sample ID No : 310826685
Sampling Date : 31/08/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 31/08/2026
Commenced Date : 31/08/2026
Completed On : 08/09/2026
Report Date : 08/09/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Magnesium as Mg	mg/l	20.65	IS 3025 Part 46: 2023	30	100
2	Total Alkalinity (as CaCO3)	mg/l	180.0	IS 3025 (Part 23): 2023	200	600
3	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 : Part 34 : Sec 1: 2023	0.5	No relaxation
4	Calcium as Ca	mg/l	38.07	IS 3025 (Part 40): 2024(EDTA titrimetric method)	75	200
5	Chloride as Cl	mg/l	138.56	IS 3025 (Part 32): 1988 (Argentometric method)	250	1000
6	Collodal silica as SiO2	mg/l	0.49	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
7	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
8	Electrical Conductivity at 25°C	µS/cm	844.0	IS 3025:(Part-14): 2013	NA	NA
9	Fluoride as F	mg/l	0.41	IS 3025 Part 60 Sec1 : 2023	1.0	1.5
10	Iron as Fe	mg/l	0.045	APHA 24 th edition (Method 3500 Fe B & 3111 B) : 2023	1.0	No relaxation
11	Nitrate as NO3	mg/l	5.69	IS 3025 Part 34 Sec 1: 2023	45	No relaxation
12	pH at 25°C	-	7.54	IS 3025(Part 11): 2022	6.5-8.5	No relaxation

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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TEST REPORT

ULR : TC174752600040143
Report No. : HECSL/WT/242/310826
Sample ID No : 310826685
Sampling Date : 31/08/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 31/08/2026
Commenced Date : 31/08/2026
Completed On : 08/09/2026
Report Date : 08/09/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Reactive silica as SiO2	mg/l	18.19	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
14	Sulphate as SO4	mg/l	54.34	IS 3025 : Part 24 : Sec 1: 2022	200	400
15	Total dissolved solids	mg/l	461.0	IS 3025 (Part 16): 2023	500	2000
16	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 2022	NA	NA
17	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025 Part 10: 2023	1	5
18	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
19	Total hardness as CaCO3	mg/l	180.0	IS 3025 (Part 21): 2009	200	600
20	Silica as SiO2	mg/l	18.68	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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Hubert Enviro Care Systems Limited
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TC-17475

Laboratory Services Division
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TEST REPORT

ULR : TC174752600040142
Report No. : HECS/PE/125/310826
Sample ID No : 310826684
Sampling Date : 31/08/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West side of Construction Building
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/08/2026
Commenced Date : 31/08/2026
Completed Date : 08/09/2026
Report Date : 08/09/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/kg	0.23	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/kg	4.49	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Lead	mg/kg	20.7	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Nickel	mg/kg	11.43	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
6	Zinc	mg/kg	3.49	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
7	pH Value @ 25 ° C (1 : 2.5)	-	8.62	IS 2720 (Part 26) 1987
8	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	157.0	IS 14767: 2000
9	Organic Matter	%	0.79	IS 2720 (Part 22) Section I 1972
10	Available Phosphorous as P	µg/g	BLQ(LOQ 5.0)	FAO of United Nations, Rome Chapter - III 2008
11	Available Potassium	mEq/100g	15.76	FAO of United Nations, Rome Chapter - III 2008

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600040142
Report No. : HECS/PE/125/310826
Sample ID No : 310826684
Sampling Date : 31/08/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West side of Construction Building
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 54.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 31/08/2026
Commenced Date : 31/08/2026
Completed Date : 08/09/2026
Report Date : 08/09/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
12	Chlorides	mEq/L	19.42	FAO of United Nations Rome 2007
13	Total Nitrogen as N	%	0.0164	IS 14684 Clause 4 1999
14	Sulphate	mg/100g	12.14	IS 2720 Part 27 Clause 4 1977
15	Sodium Absorbtion Ratio	Square root of (millimole/litre)	3.46	HECS-G/ENV/SSW/SOP/010 Issue No.:01 Issue Date:02.07: 2020
16	Exchangable Calcium as Ca	mEq/L	23.12	FAO of United Nations, Rome Chapter - III 2008
17	Exchangable Magnesium as Mg	mEq/L	17.28	FAO of United Nations, Rome Chapter - III 2008
18	Available Sodium as Na	mg/kg	357.8	International Centre for Agriculture Research (ICARDA): 2013
19	Cation Exchange Capacity	mEq/100g	3.4	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	12.6	IS 14765: 2000
21	Nitrate	µg/g	13.42	FAO of United Nations, Rome Chapter - III 2008
22	Gypsum	%	0.1983	Methods of soil,plant and water analysis - ICARDA : 2013

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilograms, % - Percentage.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600040139
Report No. : HECS/AP/298/310826
Sample ID No : 310826681
Sampling Date : 31/08/2026

Name of the Client : **M/s. Emerald Haven Life Spaces 2 Private Limited.,**
Address of the Client : **T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.**

Group : **Atmospheric Pollution**
Sample Name : **Noise Levels (Excluding vibration)**
Sample Mark : **Ambient Noise**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems Limited**
Sample Location : **NA**
Environmental Condition : **Temperature (°C) : 29.0 | Humidity (%) : 55.0**
Sampling Method & Plan : **IS 9989 : 1981**

Received Date : **31/08/2026**
Commenced Date : **31/08/2026**
Completed Date : **08/09/2026**
Report Date : **08/09/2026**
Sample Qty : **NA**

S.No.	Location	Time (Hrs)	Noise Level in dB(A)
1	Near East Side of Construction Area	10.35	53.7
2	Near West Side of Construction Area	10.45	54.1
3	Near Main Gate Area	10.55	53.0
4	Near North Side of Construction Area	11.05	52.9
5	Near Office Cabin Area	11.15	54.0

Limits set by CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area: Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600040140
Report No. : HECS/AP/299/310826
Sample ID No : 310826682
Sampling Date : 31/08/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : DG Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 55.0
Sampling Method & Plan : IS 9989 : 1981

Received Date : 31/08/2026
Commenced Date : 31/08/2026
Completed Date : 08/09/2026
Report Date : 08/09/2026
Sample Qty : NA

S.No	Location	Time (Hrs)	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG-I 82.5 KVA Door Open	11.25	100.0	75 Max
2	DG-I 82.5 KVA Door Close (1 m distance from Acoustic room)	11.35	73.1	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600041410
Report No. : HECS/AP/059/100926
Sample ID No : 100926171
Sampling Date : 10/09/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : Ambient Air
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : Near Main Security Gate
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 56.0
Sampling Method & Plan : IS 5182 Part 5 & Part 14

Received Date : 10/09/2026
Commenced Date : 10/09/2026
Completed On : 16/09/2026
Report Date : 16/09/2026
Sample Qty : NA

S.No.	Test Parameters	Units	Results	Test Method	NAAQ Standards : 2009	
Discipline : Chemical						
1	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)
2	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
3	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
4	Benzene	µg/m³	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
5	Benzo (a) pyrene	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
6	Ammonia as NH3	µg/m³	8.92	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
7	Carbon Monoxide (CO)	mg/m³	BLQ (LOQ: 0.05)	IS 5182 (Part 10) Clause 4	4 (1 hours)	2 (8 hours)
8	Nitrogen dioxides as NO2	µg/m³	19.60	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
9	Ozone as O3	µg/m³	10.37	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
10	Particulate matter (Size less than 10 µm)	µg/m³	51.97	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
11	Particulate matter (Size less than 2.5 µm)	µg/m³	18.18	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
12	Sulphur dioxide as SO2	µg/m³	13.40	IS 5182 (Part 2) 2023	80 (24 hours)	50 (Annual)

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

HECS ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

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TEST REPORT

ULR : **TC174752600041412**
Report No. : **HECS/AP/61/100926**
Sample ID No : **100926173**
Sampling Date : **10/09/2026**

Name of the Client : **M/s. Emerald Haven Life Spaces 2 Private Limited.,**
Address of the Client : **T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.**

Group : **Atmospheric Pollution**
Sample Name : **DG Stack Emission below 800 KVA**
Sample Mark : **DG I - 82.5 KVA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems Limited**
Sample Location : **NA**
Environmental Condition : **Temperature (°C) : 31.0 | Humidity (%) : 56.0**
Sampling Method & Plan : **IS 11255**

Received Date : **10/09/2026**
Commenced Date : **10/09/2026**
Completed Date : **16/09/2026**
Report Date : **16/09/2026**
Sample Qty : **NA**

Stack Details

S.No.	Particulars	Units	Stack Specification
1	Stack Height	Meter	3.0
2	Stack Diameter	Meter	0.1

Discipline : Chemical

S.No.	Test Parameters	Units	Results	Test Method	CPCB Standards
1	Carbon dioxide (CO2)	%	7.3	ASTM Method D6522 (by Flue gas Analyzer) 2000	NA
2	Carbon Monoxide (CO)	g/kW-hr	BLQ(LOQ 0.01)	HECSG/ENV/SE/SOP/006 Issue No.:01 Issue Date:01:12: 2022	≤ 3.5
3	Flue Gas Discharge (Flow Rate)	Nm^3/hr	153.0	IS 11255 (Part 3) Clause 6 : 2008	NA
4	Flue Gas Temperature	°C	65.0	IS 11255 (Part 3) Clause 6 : 2008	NA
5	Flue Gas Velocity	m/s	7.0	IS 11255 (Part 3) Clause 10 : 2008	NA
6	Particulate matter (PM)	g/kW-hr	0.059	HECS-G/ENV/SE/SOP/005 Issue No.:01 Issue Date:01:12:2022	≤ 0.2
7	Oxides of Nitrogen + Hydro Carbon	g/kW-hr	0.510	HECS-G/ENV/SE/SOP/002 Issue No./ Date 01/01:03 2021	≤ 4.0(NOx+HC)
8	Sulphur dioxide (SO2)	mg/Nm^3	9.11	IS 11255 (Part 2) : 1985	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, %- Percentage, m/s- Meter per second, Nm^3/hr - Normal cubic meter per hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

HECS ENVIRO CARE SYSTEMS LIMITED Chennai 600-032

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TEST REPORT

ULR : TC174752600041459
Report No. : HECSL/WT/020/100926
Sample ID No : 100926178
Sampling Date : 10/09/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 10/09/2026
Commenced Date : 10/09/2026
Completed On : 17/09/2026
Report Date : 17/09/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
Discipline : Chemical						
1	Magnesium as Mg	mg/l	3.40	IS 3025 Part 46: 2023	30	100
2	Total Alkalinity (as CaCO3)	mg/l	38.0	IS 3025 (Part 23): 2023	200	600
3	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 : Part 34 : Sec 1: 2023	0.5	No relaxation
4	Calcium as Ca	mg/l	4.81	IS 3025 (Part 40): 2024(EDTA titrimetric method)	75	200
5	Chloride as Cl	mg/l	27.71	IS 3025 (Part 32): 1988 (Argentometric method)	250	1000
6	Collodal silica as SiO2	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
7	Colour	Hazen units	BLQ(LOQ:1.0)	IS 3025 (Part4): 2021	5	15
8	Electrical Conductivity at 25°C	µS/cm	175.0	IS 3025:(Part-14): 2013	NA	NA
9	Fluoride as F	mg/l	BLQ(LOQ:0.2)	IS 3025 Part 60 Sec1 : 2023	1.0	1.5
10	Iron as Fe	mg/l	BLQ(LOQ:0.01)	APHA 24 th edition (Method 3500 Fe B & 3111 B) : 2023	1.0	No relaxation
11	Nitrate as NO3	mg/l	1.42	IS 3025 Part 34 Sec 1: 2023	45	No relaxation
12	pH at 25°C	-	7.35	IS 3025(Part 11): 2022	6.5-8.5	No relaxation

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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TEST REPORT

ULR : TC174752600041459
Report No. : HECSL/WT/20/100926
Sample ID No : 100926178
Sampling Date : 10/09/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Water
Sample Name : Water
Sample Mark : Drinking Water
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 30.0 | Humidity (%) : 54.0
Sampling Method & Plan : IS 17614 (Part -1) : 2025

Received Date : 10/09/2026
Commenced Date : 10/09/2026
Completed On : 17/09/2026
Report Date : 17/09/2026
Sample Qty : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	IS 10500 : 2012	
					Acceptable Limits (Max)	Permissible Limits (Max)
13	Reactive silica as SiO2	mg/l	1.89	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA
14	Sulphate as SO4	mg/l	BLQ(LOQ:1.0)	IS 3025 : Part 24 : Sec 1: 2022	200	400
15	Total dissolved solids	mg/l	91.0	IS 3025 (Part 16): 2023	500	2000
16	Total Suspended Solids	mg/l	BLQ(LOQ:2.0)	IS 3025 (Part 17): 2022	NA	NA
17	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025 Part 10: 2023	1	5
18	Phosphate as PO4	mg/l	BLQ(LOQ:0.02)	IS 3025 Part 31 Sec 1: 2022 (Stannous Chloride method)	NA	NA
19	Total hardness as CaCO3	mg/l	26.0	IS 3025 (Part 21): 2009	200	600
20	Silica as SiO2	mg/l	1.90	IS 3025 Part 35: 2024 (Molybdosilicate method , Heteropoly blue Method)	NA	NA

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA - Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

M.Muthukaruppan
Technical Manager - Water
Authorized Signatory

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Hubert Enviro Care Systems Limited
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

TC-17475

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by CPCB (MoEF & CC)
BIS FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

ULR : TC174752600041458
Report No. : HECS/PE/073/100926
Sample ID No : 100926177
Sampling Date : 10/09/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.

Group : Pollution & Environment
Sample Name : Soil
Sample Mark : NA
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : West Side of Construction Building
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 56.0
Sampling Method & Plan : ICARDA : 2013

Received Date : 10/09/2026
Commenced Date : 10/09/2026
Completed Date : 17/09/2026
Report Date : 17/09/2026
Sample Qty : 2 Kg

S.No.	Test Parameters	Units	Results	Test Method
Discipline : Chemical				
1	Cadmium	mg/kg	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
2	Chromium	mg/kg	0.24	HECS-G/INS/SOP/042 Issue No.:01 Issue Date:01.03.2021
3	Copper	mg/kg	5.67	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
4	Lead	mg/kg	19.07	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
5	Nickel	mg/kg	10.29	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
6	Zinc	mg/kg	3.69	HECS-G/INS/SOP/ 042 Issue No.:01 Issue Date:01.03.2021
7	pH Value @ 25 ° C (1 : 2.5)	-	8.48	IS 2720 (Part 26) 1987
8	Electrical conductivity @ 25 ° C (1 : 2)	µS/cm	205.0	IS 14767: 2000
9	Organic Matter	%	0.82	IS 2720 (Part 22) Section I 1972
10	Available Phosphorous as P	µg/g	BLQ(LOQ5.0)	FAO of United Nations, Rome Chapter - III 2008
11	Available Potassium	mEq/100g	19.38	FAO of United Nations, Rome Chapter - III 2008

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : **TC174752600041458**
Report No. : **HECS/PE/073/100926**
Sample ID No : **100926177**
Sampling Date : **10/09/2026**

Name of the Client : **M/s. Emerald Haven Life Spaces 2 Private Limited.,**
Address of the Client : **T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.**
Group : **Pollution & Environment**
Sample Name : **Soil**
Sample Mark : **NA**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems Limited**
Sample Location : **West Side of Construction Building**
Environmental Condition : **Temperature (°C) : 31.0 | Humidity (%) : 56.0**
Sampling Method & Plan : **ICARDA : 2013**

Received Date : **10/09/2026**
Commenced Date : **10/09/2026**
Completed Date : **17/09/2026**
Report Date : **17/09/2026**
Sample Qty : **2 Kg**

S.No.	Test Parameters	Units	Results	Test Method
12	Chlorides	mEq/L	20.73	FAO of United Nations Rome 2007
13	Total Nitrogen as N	%	0.0150	IS 14684 Clause 4 1999
14	Sulphate	mg/100g	15.82	IS 2720 Part 27 Clause 4 1977
15	Sodium Absorbtion Ratio	Square root of (millimole/litre)	3.10	HECS-G/ENV/SSW/SOP/010 Issue No.:01 Issue Date:02.07: 2020
16	Exchangable Calcium as Ca	mEq/L	24.06	FAO of United Nations, Rome Chapter - III 2008
17	Exchangable Magnesium as Mg	mEq/L	19.53	FAO of United Nations, Rome Chapter - III 2008
18	Available Sodium as Na	mg/kg	374.2	International Centre for Agriculture Research (ICARDA): 2013
19	Cation Exchange Capacity	mEq/100g	3.7	IS 2720 (Part 24) Clause 5 1976
20	Water Holding capacity	%	11.8	IS 14765: 2000
21	Nitrate	µg/g	11.40	FAO of United Nations, Rome Chapter - III 2008
22	Gypsum	%	0.2064	Methods of soil,plant and water analysis - ICARDA : 2013

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/kg- Milligrams per kilograms, % - Percentage.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600041413
Report No. : HECS/AP/62/100926
Sample ID No : 100926174
Sampling Date : 10/09/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.
Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : Ambient Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 56.0
Sampling Method & Plan : IS 9989 : 1981

Received Date : 10/09/2026
Commenced Date : 10/09/2026
Completed Date : 16/09/2026
Report Date : 16/09/2026
Sample Qty : NA

S.No.	Location	Time (Hrs)	Noise Level in dB(A)
1	Near East Side of Construction Area	11.30	54.3
2	Near West Side of Construction Area	11.40	53.9
3	Near Main Gate Area	11.50	53.5
4	Near North Side of Construction Area	12.00	52.8
5	Near Office Cabin Area	12.10	53.7

Limits set by CPCB:

i. Industrial Area : Day Time-75 dB (A); Night Time-70 dB (A).
ii. Commercial Area: Day Time-65 dB (A); Night Time-55 dB (A).
iii. Residential Area : Day Time-55 dB (A); Night Time-45 dB (A).
iv. Silence Zone : Day Time-50 dB (A); Night Time-40 dB (A).

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600041414
Report No. : HECS/AP/063/100926
Sample ID No : 100926175
Sampling Date : 10/09/2026

Name of the Client : M/s. Emerald Haven Life Spaces 2 Private Limited.,
Address of the Client : T.S.NO. 30 etc., PALLAVARAM TALUK AND TOWN, CHENGALPATTU DISTRICT, 600043.

Group : Atmospheric Pollution
Sample Name : Noise Levels (Excluding vibration)
Sample Mark : DG Noise
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited
Sample Location : NA
Environmental Condition : Temperature (°C) : 31.0 | Humidity (%) : 56.0
Sampling Method & Plan : IS 9989 : 1981

Received Date : 10/09/2026
Commenced Date : 10/09/2026
Completed Date : 16/09/2026
Report Date : 16/09/2026
Sample Qty : NA

S.No	Location	Time (Hrs)	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG-I 82.5 KVA Door Open	12.20	99.8	75 Max
2	DG-I 82.5 KVA Door Close (1 m distance from Acoustic room)	12.30	72.6	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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File No: 12985
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), TAMIL NADU)
***

Date **31/01/2026**

To,

B Balachandar
EMERALD HAVEN LIFE SPACES 2 PRIVATE LIMITED
Ispahani Centre, 4th Floor, Door No.123,124, Nungambakkam High Road, CHENNAI - 600034, TAMIL NADU.
radialptr@gmail.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

Sub: SEIAA, TN - Proposed Construction of High rise building for Residential Purposes in T.S.No. 30, 134 and 135 in Block No. 19 and T.S.No. 96/3, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 122, 123, 124, 125, 126, 127, 128, 129, 134, 135, 139, in Block No. 21, Ward No. C of Zamin Pallavaram Village, Pallavaram Taluk & Town, Chengalpattu District, Tamil Nadu, By M/s. Emerald Haven Life Spaces 2 Private Limited & M/s. Emerald Haven Life Spaces 3 Private Limited – under category "B1" of Item "8(b) Townships/ Area Development Projects" of the schedule to the EIA Notification, 2006, as amended– **Issue of Environmental Clearance** – Regarding.

Ref:
1. TOR Identification No. TO25B3812TN5762125N, Dated 09/09/2025
2. EIA report submitted on 10.11.2025.
3. Online Proposal No SIA/TN/INFRA2/557635/2025, Dated: 10/11/2025
4. Your Application for Environmental Clearance dated: 10/11/2025
5. Minutes of the 661st meeting of SEAC-1 held on 05.01.2026
6. Minutes of the 949th Authority meeting held on 23.01.2026

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25B3812TN5223756N
(ii) File No.	12985
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	8(b) Townships/ Area Development Projects /

	Rehabilitation Centres
(vii) Name of Project	Proposed Construction of Residential Building by M/s. Emerald Haven Life Spaces 2 Private Limited & M/s. Emerald Haven Life Spaces 3 Private Limited
(viii) Name of Company/Organization	EMERALD HAVEN LIFE SPACES 2 PRIVATE LIMITED
(ix) Location of Project (District, State)	CHENGALPATTU, TAMIL NADU
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

1.In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1 (Part A, B, C) EIA/EMP report were submitted to the SEIAA-TN for an appraisal by the SEAC under the provision of EIA notification 2006 and its subsequent amendments.

2.The above-mentioned proposal has been considered by SEIAA in the meeting held on 23.01.2026. The minutes of the meeting and all the documents submitted are available on PARIVESH portal which can be accessed by scanning the QR Code above.

3.The SEAC, based on the information viz: Form-1 (Part A, B, C) EIA/EMP report etc., & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and compliance thereto furnished by the Project Proponent, recommended for grant of Environment Clearance under the provision of EIA Notification,2006 and as amended thereof subject to compliance of Specific and Standard EC conditions as given in this letter.

4.The SEIAA, has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the State Expert Appraisal Committee hereby accords Environment Clearance to the instant proposal of **M/s. Emerald Haven Life Spaces 2 Private Limited & M/s. Emerald Haven Life Spaces 3 Private Limited** under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)

5. The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary. The EC to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

6.The Project Proponent is under obligation to implement commitments made in the Environment Management Plan which forms part of this EC.

7.The PP is under obligation to implement commitments made in the Environment Management Plan, which form part of this EC. Validity of EC is for a period of 7 years from the date of issue of EC. In case the project proponent fails to complete the construction/proposed activities within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006 and its amendment

8.Salient features of the proposal are as follows:

<table>
<tr><th colspan="4">PROJECT SUMMARY</th></tr>
<tr><th>Sl. No</th><th>Description</th><th>Total Quantity</th><th>Unit</th></tr>
<tr><td colspan="4">GENERAL</td></tr>
<tr><td>1.</td><td>Plot Area</td><td>50343</td><td>SQMT</td></tr>
<tr><td>2.</td><td>Latitude & Longitude of all Corners of the Site</td><td>
<table>
<tr><th rowspan="2">Sl. No</th><th>Latitude</th><th>Latitude</th></tr>
<tr><th>Deg. Min. Sec.</th><th>Deg. Min. Sec.</th></tr>
<tr><td>1</td><td>12 57 09.65 N</td><td>080 10 05.98 E</td></tr>
<tr><td>2</td><td>12 57 10.28 N</td><td>080 10 03.94 E</td></tr>
</table>
</td><td></td></tr>
</table>

		3 | 12 57 11.91 N | 080 10 04.06 E 4 | 12 57 11.91 N | 080 10 04.29 E 5 | 12 57 12.70 N | 080 10 04.32 E 6 | 12 57 13.81 N | 080 10 04.45 E 7 | 12 57 13.89 N | 080 10 02.37 E 8 | 12 57 22.78 N | 080 10 03.83 E 9 | 12 57 22.45 N | 080 10 07.10 E 10 | 12 57 23.45 N | 080 10 07.21 E 11 | 12 57 23.40 N | 080 10 08.37 E 12 | 12 57 25.59 N | 080 10 08.71 E 13 | 12 57 25.49 N | 080 10 10.67 E 14 | 12 57 22.31 N | 080 10 10.50 E 15 | 12 57 22.37 N | 080 10 08.08 E	
3.	Proposed Built Up Area	1,73,583.21	SQMT
4.	Total no of Saleable DU's/Villas	1035	No.
5.	Max Height - (Height of tallest block)	47.65 m	M
6.	No of Building Blocks (Residential + Community facilities)	11	
7.	Max No of Floors	15	No.
8.	Expected Population (Residential + Floating)	5814+1220	Nos.
9.	Total Cost of Project	515.1	Cr
10.	EMP	Capital Cost – 682.35 Lakhs Recurring Cost – 72.16 Lakhs	Lakhs
11.	Project Activity:	• The project comprises of construction of a high-rise building consisting of combined extended two basement floors + Ground floor + 14 Floors+ 15th partial floors of residential building with 10 towers as: • Tower A: 119 units, • Tower B: 119 units, • Tower C: 088 units, • Tower D: 088 units, • Tower E: 088 units, • Tower F: 119 units, • Tower G: 119 units, • Tower H: 119 units, • Tower J: 088 units, • Tower K: 088 units, Total: 1035 dwelling units and clubhouse (lower ground+ground+2 floors + 3rd partial floor) with swimming pool in ground level.	

AREA			
12.	Permissible Ground Coverage Area (50%)	25171.5	SQMT
13.	Proposed Ground Coverage Area (24%)	11879.26	SQMT
14.	Permissible FSI Area	163614.75	SQMT
15.	Proposed FSI Area	131762.47	SQMT
16.	Other Non FSI Areas - including basement area, parking area etc.,	41820.74	SQMT
17.	OSR Area	5021.35	SQMT
18.	Proposed Total Built Up Area	1,73,583.21	SQMT
WATER			
Construction Phase			
19.	Water Requirement	20	KLD
20.	Source	Private Tankers	
21.	Mode of Disposal	Septic Tank/Soak Pit	
Operation Phase			
22.	**Total Water Requirement** i. Fresh water requirement ii. Treated recycled water requirement	899 544 355	KLD KLD KLD
23.	**Fresh water requirement** i. Domestic ii. Swimming Pool Top up	544 542 2	KLD KLD KLD
24.	Wastewater Generation	Total Wastewater Generation – 740 KLD	KLD
25.	Treated Water Generation	703	KLD
26.	**Utilization of Treated Water** i. Flushing use ii. Greenbelt & OSR	280 75	KLD KLD
27.	Surplus treated water & Disposal method	348	KLD
28.	**Source for Fresh Water Requirement**	Tambaram Municipal Corporation	
TREATMENT & DISPOSAL SYSTEM			
29.	Proposed Capacity of STP	750	KLD
RAINWATER HARVESTING			
30.	Rainwater Harvesting - Recharge Pits	23	No.
31.	Rainwater Harvesting Sump Capacity	756	M^3
PARKING & TRAFFIC MANAGEMENT			

32.	Total Parking Required as / Building Bye Laws	1088 Cars & 172 TW	ECS
33.	Proposed Total Parking	1263 Cars & 184 TW	ECS
34.	Parking in Basements	1263 Cars & 184 TW	ECS
35.	Width of Adjacent Public Road	18	
36.	Number of Entry and Exit provided on approach road	2	Nos.
GREEN AREA			
37.	Proposed Green Area (Minimum 15% of plot area)	7463.19	SQMT
	Total area	50343 & Net Plot area - 49,754.61	SQMT
	Existing trees on plot	15	
	Number of trees to be planted	470	Nos.
	Number of trees to be transplanted/cut	0	
WASTE MANAGEMENT			
Waste Generation			
38.	**Total Waste Generation**	3.732	TPD
39.	**Solid Waste** i. Biodegradable waste (Organic) ii. Non - Biodegradable	1.493 2.239	TPD
40.	Quantity of Sludge Generated from STP & Disposal	70 KG/Day - Will be used as a Manure for Greenbelt development	KG/DAY
41.	Quantity of E-Waste Generation & Disposal	16	KG/DAY
42.	Quantity of Hazardous waste Generation & Disposal	0.5	LPD
Mode of Treatment & Disposal			
43.	Organic waste	The Biodegradable waste will be processed in the proposed Organic waste convertor to be installed in the site	
44.	Sludge Generated from STP	70 Kg/Day - Will be used as a Manure for greenbelt development	KG/Day
45.	E-Waste	Handed over to Authorized Recyclers	
46.	Hazardous waste	Handed over to Authorized Recyclers	
POWER REQUIREMENT			
47.	Total Power Requirement	6304	KVA
48.	DG set backup	3 Nos. of 500 kVA & 1 No. of 400 KVA.	KVA
49.	DG Sets: No. and capacity of the DG sets: Fuel and its Quantity:	3 Nos. of 500 kVA & 1 No. of 400 KVA. – 0.4 T/Year	Nos.
50.	Solar Panels – Roof Coverage	50	%
POPULATION			

51.	Residential	DU'S	**Population/ Dwelling Unit**	**Total Population**
52.	Total Saleable Dwelling units	1035	5 persons – 436 units – 2180 6 persons – 559 units - 3354 7 persons – 40 units – 280	5814
53.	Club	-		581
54.	Total Visitors	-	10% of total population	581
55.	Maintenance Staff	-	1% of total population	58
56.	Total Population	-		7034

CER Activity

S. No.	CER Activity	Action Plan
1	Following activities will be done under CER for **Kovilambakkam Lake**. They are: • Inflow channel restoration - including grey water treatment where necessary. • Desilting and deepening to the permissible depth. • Repairs to sluices and surplus weir. • Beautification of Tank for the public to visit. The CMWSSB/WRD will coordinate and provide any assistance to the PP when implementing the CER.	5 crores
Total cost		**5 crores**

9.General Instructions:

(i)The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of SEIAA website where it is displayed.

(ii)The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.

(iii)The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.

(iv)Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

(v)Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

The Regional Office of this SEIAA shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

(vi)Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

10. This issue with an approval of the Competent Authority. For information on deliberations, refer to the minutes of SEAC and SEIAA available in the PARIVESH Portal.

Copy To

1. The Secretary, Ministry of Environment Forest & Climate Change, Government of India, Shastri Bhawan, New Delhi.
2. The Additional Chief Secretary to Government, Environment and Forests Department, Tamil Nadu.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
4. The Chairperson, TNPC Board,76, Mount Salai, Guindy, Chennai-32
5. EI Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
6. Integrated Regional Office of MoEF&CC, Sasthri Bhawan, Chennai.
7. File Copy.

Annexure 1

Specific EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Seiaa Standard Conditions:

S. No	EC Conditions
1.1	**Climate Change** 1. The proponent shall adopt strategies to decarbonize the building, reduce carbon footprints and develop strategies for climate proofing and mitigation. 2. The proponent shall adopt strategies to reduce carbon & GHG emissions during operation (operational phase and building materials). 3. The proponent shall adopt methodology to control thermal environment and other shocks in the building. 4. The proponent shall adopt strategies to ensure the buildings in blocks are not trapping heat to become local urban heat islands. 5. The proponent shall ensure that the building does not create artificial wind tunnels creating cold water and uncomfortable living conditions resulting in health issues. 6. The activities should in no way cause emission and build-up Green House Gases. All actions to be eco-friendly and support sustainable management of the natural resources within and outside the campus premises. 7. The proponent shall ensure that the buildings does not cause any damage to water environment, air quality and should be carbon neutral building. **Health** 8. The proponent shall adopt strategies to maintain the health of the inhabitants within and in the vicinity. **Energy** 9. The proponent shall adopt strategies to reduce electricity demand and consumption. 10. The proponent shall provide provisions for automated energy efficiency. 11. The proponent shall provide provisions for controlled ventilation and lighting systems. 12. The proponent shall provide adequate capacity of DG set (standby) for the proposed STP so as to ensure continuous and efficient operation. **Regulatory Frameworks** 13. The proponent shall effectively implement and strictly adhere to the Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes

S. No	EC Conditions
	(Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001. 14. The proponent shall provide elevator as per rules CMDA/DTCP. **Database maintenance & audits** 15. The database record of environmental conditions of all the events from pre-construction, construction and post-construction should be maintained in digitized format. 16. The proponent should maintain environmental audits to measure and mitigate environmental concerns. **Biodiversity** 17. The proponent shall ensure that the proposed activities in no way result in the spread of invasive species. 18. The proponent shall adopt sustainability criteria to protect the micro environment from wind turbulences and change in aerodynamics since high rise buildings may stagnate air movements. 19. The proponent shall ensure utmost safety for the existing biodiversity, trees, flora & fauna and the critically endangered species & endangered species shall not disturb under any circumstances. 20. The proponent shall develop building-friendly pest control strategies by using non chemical measures so as to control the pest population thereby not losing beneficial organisms. 21. The proponent shall adopt strategies to prevent birds getting hit by the high buildings. **Safety measures** 22. The proponent should develop an emergency response plan & safety evacuation plan (including disabled people) in addition to the disaster management plan. 23. All bio-safety standards, hygienic standards and safety norms of working staff to be strictly followed as stipulated in EIA/EMP. 24. The disaster management/disaster mitigation standards& fire safety standards as prescribed by competent authorities. 25. The proponent shall provide the emergency exit in the buildings. **Water/Sewage** 26. The proponent shall ensure that no untreated sewage is let outside the project site under any circumstances. Further, the treated water shall not be disposed off through any other means other than the permitted mode of disposal. 27. The proponent shall provide STP of adequate capacity as committed and shall continuously & efficiently operate STP so as to satisfy the treated sewage discharge standards prescribed by the TNPCB time to time. 28. The proponent shall periodically test the treated sewage the through TNPCB lab /NABL accredited laboratory and submit report to the TNPCB & IRO of MoEF&CC. 29. The proponent shall ensure that provision should be given for proper utilization of recycled water. 30. The project proponent shall adhere to storm water management plan as committed. **Parking** 31. The project proponent shall provide adequate parking space for visitors of all inmates including clean traffic plan as committed. **Solid waste Management** 32. The proponent shall ensure that no form of municipal solid waste shall be disposed outside the proposed project site at any time.

S. No	EC Conditions
	33. The proponent should strictly comply with, Tamil Nadu Government order regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986. **EMP** 34. The proponent shall strictly adhere to the EIA/EMP report. 35. The proponent shall ensure that the green belt plan is implemented as indicated in EMP. Also, the proponent shall explore possibilities to provide sufficient grass lawns. **Others** 36. As per the 'Polluter Pay Principle', the proponent will be held responsible for any environmental damage caused due to the proposed activity including withdrawal of EC and stoppage of work. 37. The project proponent shall adhere to height of the buildings as committed.

2. Seiaa Specific Conditions :

S. No	EC Conditions
2.1	i) The Project Proponent shall submit the AAI No Objection Certificate (NoC) to TNPCB before obtaining CTE. ii) The Project Proponent shall submit a water commitment letter issued by the Tambaram Municipal Corporation to TNPCB before obtaining CTE. iii) The building plan & design should strictly adhere to LCA norms. iv) The building geometry, design & engineering should ensure congestion free atmosphere within and outside. v) The wind direction & the aerodynamics should not be disturbed because of the proposed building. vi) The building design should not impair the visibility of structures & features around. vii) There should be enough green space within and outside the building. viii) The building design and engineering should not lead to oxygen starvation. ix) Cool roofs should be provided to curtail heat absorption. x) As per the OM vide F. No. IA3-22/1/2022-IA-Ill [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the Environmental conditions prescribed in the prior Environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login. A copy of the half yearly compliance report should be mailed to envcompseiaatn@gmail.com. xi) The plantation of saplings shall be carried out in the earmarked greenbelt area as a part of the tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal (https://merilife.nic.in).

SITE SPECIFIC CONDITIONS :

Major conditions:

1. **The Project Proponent shall submit a revised Environmental Management Plan (EMP), incorporating detailed information on the Water Treatment Plant, prior to the issuance of the Environmental Clearance.**
2. **The Project Proponent shall submit a comprehensive Solid Waste Management protocol, detailing collection, segregation, treatment, and disposal methods, to the Tamil Nadu Pollution Control Board prior to obtaining Consent to Establish (CTE).**

Site specific conditions:

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. The PP shall install STP as committed in the EMP and shall ensure that the treatment efficiency meets CPCB standards.
3. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water should not to be discharged outside the premises without the permission of the concerned authority.
4. As agreed by the project proponent, the **CER cost is 5 crores** and the amount shall be spent for the following activities as committed within a period of 1 year from the date of issue of EC.

S. No.	**CER Activity**	**Action Plan**
1	Following activities will be done under CER for **Kovilambakkam Lake**. They are: ❑ Inflow channel restoration - including grey water treatment where necessary. ❑ Desilting and deepening to the permissible depth. ❑ Repairs to sluices and surplus weir. ❑ Beautification of Tank for the public to visit. The CMWSSB/WRD will coordinate and provide any assistance to the PP when implementing the CER.	5 crores
Total cost		**5 crores**

SEAC Standard conditions

Standard Environmental Clearance Conditions for Construction Projects - SEAC
1. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed, if applicable. 2. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP). 3. The proponent should provide sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same. 4. The project proponent should develop green belt as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms. 5. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.

Standard

8(b)	**Townships/ Area Development Projects / Rehabilitation Centres**
Statutory compliance	
1.	The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
2.	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
3.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
4.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
5.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
6.	The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
7.	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.

8.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
9.	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.
10.	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
Air quality monitoring and preservation	
1.	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2.	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
3.	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.
4.	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets
	should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
5.	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
6.	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
7.	Wet jet shall be provided for grinding and stone cutting.
8.	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.

9.	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.
10.	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
11.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
12.	For indoor air quality the ventilation provisions as per National Building Code of India.
Water quality monitoring and preservation	
1.	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
2.	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3.	Total fresh water use shall not exceed the proposed requirement as provided in the project details.
4.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
5.	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available.
6.	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of
	Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7.	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
8.	Use of water saving devices/fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.

9.	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
10.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11.	The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12.	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse.
13.	All recharge should be limited to shallow aquifer.
14.	No ground water shall be used during construction phase of the project.
15.	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
17.	Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
18.	No sewage or untreated effluent water would be discharged through storm water drains.
19.	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.

20.	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
21.	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
Noise monitoring and prevention	
1.	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
2.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
3.	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
Energy Conservation measures	
1.	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2.	Outdoor and common area lighting shall be LED.
3.	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
4.	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
Waste Management	
1.	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.

2.	Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
3.	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
4.	Organic waste compost/Vermiculture pit/Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
5.	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6.	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7.	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
8.	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
9.	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
10.	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
Green Cover	
1.	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2.	A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.

3.	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
4.	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
Transport	
1.	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. d. Parking norms as per local regulation.
2.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
null	
1.	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
Human health issues	
1.	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
2.	For indoor air quality the ventilation provisions as per National Building Code of India.
3.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

4.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
5.	Occupational health surveillance of the workers shall be done on a regular basis.
6.	A First Aid Room shall be provided in the project both during construction and operations of the project.
Miscellaneous	
1.	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2.	ii. environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
5.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

6.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
7.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report
8.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
9.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
10.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
11.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the State Expert Appraisal Committee.
12.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC)/SEIAA-TN.
13.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
14.	The Ministry/SEIAA-TN may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15.	The Ministry/SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
16.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the

	requisite data / information/monitoring reports.
17.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
18.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

AFFIDAVIT FURNHSED BY THE PROPONENT

I, B. Balachandar, Authorised Signatory, represent M/s. Emerald Haven Life Spaces 2 Private Limited & M/s. Emerald Haven Life Spaces 3 Private Limited, 4th Floor, Ispahani Centre, Nungambakkam High Rd, Thousand Lights, Chennai, Tamil Nadu – 600034. We had proposed Construction of High rise building for Residential Purposes in T.S.No. 30, 134 and 135 in Block No. 19 and T.S.No. 96/3, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 122, 123, 124, 125, 126, 127, 128, 129, 134, 135, 139, in Block No. 21, Ward No. C of Zamin Pallavaram Village, Pallavaram Taluk & Town, Chengalpattu District, 600043. An application submitted by us seeking Environmental Clearance from State Environment Impact Assessment Authority. I am furnishing the following undertaking to the Authority, hereby solemnly affirm and state as follows:-

We commit to SEAC & SEIAA that the total fresh water requirement for our residential development is 544 KLD and excess treated sewage is 348 KLD. The required fresh water will be met through Tambaram Municipal Corporation and excess treated sewage will be used for Avenue Plantation in Tambaram Municipal Corporation.

We Commit to SEAC & SEIAA The commitment letter from Tambaram Municipal Corporation for supply of fresh water and disposal of Excess treated water for Avenue plantation will be obtained before obtaining CTE from TNPCB.

We commit to SEIAA that the Total quantity of sewage generated from the proposed project is 740 KLD will be treated in the 750 KLD sewage treatment plant and out of which 703 kLD of treated water will be generated, 280 KLD of treated water will be used for flushing, 75 KLD

of treated water will be used for Greenbelt development & OSR and excess treated sewage of 348 KLD will be used for Avenue Plantation in Tambaram Municipal Corporation.

We commit to SEIAA that the Total Municipal Solid waste generated from the development will be 3732 kg/day in which 1493 kg/day is Biodegradable waste, which will be treated in Organic waste Converter within the project site mixed with 70 Kg/day STP sludge and then used as manure for landscaping purpose within project site and 2239 Kg/day is Non-Biodegradable waste will be disposed to authorized recyclers or Corporation for recycling.

Environmental Management Plan

Environment Management Plan – Construction phase

Description	Budgetary Allocation (Rs. In Lakhs)	
	Capital Expenses	Operational Expenses
Drinking Water & Sanitation (Temporary Toilet) Facilities	2.5	4.0
Storm Water Management	1.0	3.5
Solid Waste/Debris Management	0.8	4.0
Environmental Monitoring	0	6
Dust Suppression Measures	2.5	5
Occupational Health & Safety	3	6
Total	9.8	28.5

Environmental Management Plan Operation Phase - Capital Cost

S. No	Description	Quantity	Cost (Lakhs)
1	Sewage Treatment Plant		
	Civil	-	170
	Electrical & Mechanical	-	148
2	Water Treatment Plant		
	Civil	-	65.8
	Electrical & Mechanical	-	48.78
3	Fresh water supply	-	25
4	Solid Waste Management	-	42

5	Greenbelt Development		
	Seedings/ Plants	470	0.94
	Guards	470	1.41
	Establishing cost	---	5
6	Energy Conservation measures		
	i) Solar Street Lights , Roof top panels & Solar water heater	-	190
	ii)Installation Cost	-	60
7	Rainwater Harvesting		
	RWH Sumps & Storm water drains	-	29
	RWH recharge wells		11
	Total		**796.93**

Environmental Management Plan Operational Phase - Recurring Cost

S. No	Description	Qty	Cost (Lakhs)
1	Sewage Treatment Plant		
	Power consumption cost	80 KW x 22 hrs. x 365 days	40
	Manpower cost	2 x 12 months	2.4
	Consumables / Chemicals	-	1.2
2	Water Treatment Plant		
	Power consumption cost	40 KW x 22 hrs. x 365 days	17
	Manpower cost	2 x 12 months	2
	Consumables / Chemicals		1
3	Excess treated sewage disposal	-	5
4	Solid Waste Management		
	Door to Door Collection-Garbage		7.2
	Maintenance		0.36
5	Greenbelt development		
	Gardener(1No for every 2500sqmts)	2 x 12 months	2.4
	Manure		1.2
6	Rainwater Harvesting		

	Maintenance Staffs	2 x 12 months	2.4
7	Energy Conservation		
	Solar Panels, Solar Water Heater		5
8	Environmental Monitoring		
	Sampling-Sewage(once in a month)	12 samples	1
	Water - Once in a month (1 No x 12)	12 samples	1
	Air – Once in a month (1 No x 12)	12 samples	1
	Noise - Once in a month (5 No x 12)	60 samples	1
	Soil - Once in a month (1 No x 12)	12 samples	1
	Total Per Annum		**92.16**

We have allocated the CER fund of Rs.500 lakhs will be utilized for the following activities.

S. No.	**CER Activity**	**Capital cost Allocation (in lakhs)**	**Action Plan**
1	Development and Beautification of the Kovilambakkam Eri which is located at a distance of 2.60km on southwest side from the project site.	500	Will be spent within 1 year after obtaining Environmental clearance
Total Cost Allocation		**500**	

The capital cost of Rs.500 Lakhs towards CER activities will be spent before applying CTO from TNPCB.

We assure that we will adopt IGBC certification (Indian Green Building Rating System) or IFC EDGE Certification (International Green Building Rating System).

We assure that we are liable for the operation and maintenance of STP & OWC for 10 Years from period of operation of the project.

Provision of hot water for the 50% of the population will be met from Solar Water Heaters.

We also assure that the storm water drain would not carry any untreated or treated sewage.

We also assure that our project site does not encroach any water bodies such as rivers, canals, nallas, lakes, ponds, tanks, etc., from its original boundary.

We assure that the pavements/parking pavements will be green/permeable pavements.

We will attain 50% of roof coverage with solar panels.

We assure that CER activities will be completed as per the action plan submitted.

There is no litigations against this project.

Commitment signed by me as an Authorized signatory of the Project Proponent before the SEIAA, Tamil Nadu.

STANDARD CONDITIONS

Part - A – Common conditions applicable for Pre-construction, Construction and Operational Phases:

1. Any appeal against this Environmental Clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
2. The construction of STP, ETP, Solid Waste Management facility, E-waste management facility, DG sets, etc., should be made in the earmarked area only. In any case, the location of these utilities should not be changed later on.
3. The Environmental safeguards contained in the application of the proponent /mentioned during the presentation before the State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee should be implemented in the letter and spirit.
4. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire and Rescue Services Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972, State / Central Ground Water Authority, Coastal Regulatory Zone Authority, other statutory and other authorities as applicable to the project shall be obtained by project proponent from the concerned competent authorities.
5. The SEIAA reserves the right to add additional safeguard measures subsequently, if non-compliance of any of the EC conditions is found and to take action, including revoking of this Environmental Clearance as the case may be.

6. A proper record showing compliance of all the conditions of Environmental Clearance shall be maintained and made available at all the times.
7. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company. The status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
8. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
9. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be submitted to the SEIAA, Tamil Nadu.
10. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
11. The conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments ,draft Minor Mineral Conservation & Development Rules , 2010 framed under MMDR Act 1957,National Commission for protection of Child Right Rules ,2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law, including the Hon'ble National Green Tribunal relating to the subject matter.
12. The Environmental Clearance shall not be cited for relaxing the other applicable rules to this project.
13. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, Chennai, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant

levels namely; PM_{10}, $PM_{2.5}$, SO_2, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored.

15. The SEIAA, TN may cancel the Environmental Clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the Environmental Clearance.
16. The Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance.
17. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection, even during the subsequent period.
18. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
19. Where the trees need to be cut, compensation plantation in the ratio of 1:10 (i.e. planting of 10 trees for every one tree that is cut) should be done with the obligation to continue maintenance.
20. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization and the shortfall shall be strictly reviewed and addressed.
21. The EMP cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
22. The Project Proponent has to provide adequate rain water harvesting pits as committed s to recover and reuse the rain water during normal rains as reported.
23. The project activity should not cause any disturbance & deterioration of the local bio diversity.
24. The project activity should not impact the water bodies. A detailed inventory of the water bodies and forest should be evaluated and fact reported to the Forest Department & PWD for monitoring.
25. All the assessed flora & fauna should be conserved and protected.

26. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throwaway plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
27. Necessary permission shall be obtained from the competent authority for the drawl / outsourcing of fresh water before obtaining consent from TNPCB.
28. The proponent shall appoint an Environmental Engineer with necessary qualification for the operation and maintenance of STP (Sewage Treatment Plant) and GWTP (grey water Treatment Plant)
29. The Proponent shall provide the dispenser for the disposal of Sanitary Napkins.
30. All the mitigation measures committed by the proponent for the flood management, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
31. No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.
32. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided.
33. The safety measures proposed in the report should be strictly followed.

Part - B – Specific Conditions – Pre construction phase:

1. **The project authorities should advertise with basic details at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of clearance. The press releases also mention that a copy of the clearance letter is available with the State Pollution Control Board and also at website of SEIAA, TN. The copy of the press release should be forwarded to the Regional Office of the Ministry of Environment and Forests located at Chennai and SEIAA-TN.**
2. In the case of any change(s) in the scope of the project, a fresh appraisal by the SEAC/SEIAA shall be obtained before implementation.
3. **A copy of the clearance letter shall be sent by the proponent to the Local Body. The clearance letter shall also be put on the website of the Proponent.**
4. The approval of the competent authority shall be obtained for structural safety of the buildings during earthquake, adequacy of firefighting equipments, etc. as per National Building Code including protection measures from lightning etc. before commencement of the work.

5. All required sanitary and hygienic measures for the workers should be in place before starting construction activities and they have to be maintained throughout the construction phase.
6. Design of buildings should be in conformity with the Seismic Zone Classifications.
7. The Construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration.
8. No construction activity of any kind shall be taken up in the OSR area.
9. Consent of the local body concerned should be obtained for using the treated sewage in the OSR area for gardening purpose. The quality of treated sewage shall satisfy the bathing quality prescribed by the CPCB.
10. The height and coverage of the constructions shall be in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011.
11. The Project Proponent shall provide car parking exclusively for the visiting guest in the proposed residential apartments as per CMDA norms.
12. The project proponent shall ensure the entry of basement shall be above maximum flood level.
13. The proponent shall prepare completion plans showing Separate pipelines marked with different colours with the following details
    i. Location of STP, compost system, underground sewer line.
    ii. Pipe Line conveying the treated effluent for green belt development.
    iii. Pipe Line conveying the treated effluent for toilet flushing
    iv. Water supply pipeline
    v. Gas supply pipe line, if proposed
    vi. Telephone cable
    vii. Power cable
    viii. Strom water drains, and
    ix. Rain water harvesting system, etc. and it shall be made available to the owners
14. A First Aid Room shall be provided in the project site during the entire construction and operation phases of the project.
15. The present land use surrounding the project site shall not be disturbed at any point of time.
16. The green belt area shall be planted with indigenous native trees.

17. Natural vegetation listed particularly the trees shall not be removed during the construction/operation phase. In case any trees are likely to be disturbed, shall be replanted.
18. During the construction and operation phase, there should be no disturbance to the aquatic eco-system within and outside the area.
19. The Provisions of Forest conservation Act 1980, Wild Life Protection Act 1972 & Bio diversity Act 2002 should not be violated.
20. There should be Firefighting plan and all required safety plan.
21. Regular fire drills should be held to create awareness among owners/ residents.

Part - C - Specific Conditions – Construction phase:

1. **Construction Schedule:**
    i) The Project proponent shall have to furnish the probable date of commissioning of the project supported with necessary bar charts to SEIAA-TN.
2. **Labour Welfare:**
    i) All the laborers to be engaged for construction should be screened for health and adequately treated before and during their employment on the work at the site.
    ii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed.
    iii) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.
3. **Water Supply:**
    i) The entire water requirement during construction phase may be met from private tankers
    ii) Provision shall be made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be

in the form of temporary structures to be removed after the completion of the project.

iii) Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The treatment and disposal of waste water shall be through dispersion trench after treatment through septic tank. The MSW generated shall be disposed through Local Body and the identified dumpsite only.

iv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices prevalent.

v) Fixtures for showers, toilet flushing and drinking water should be of low flow type by adopting the use of aerators / pressure reducing devises / sensor based control.

4. Solid Waste Management:

i) In the solid waste management plan, the STP sludge management plan for direct use as manure for gardens is not acceptable; it must be co-composted with biodegradables.

ii) Hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM Rules 2016.

iii) Domestic solid wastes to be regularly collected in bins or waste handling receptacles and disposed as per the solid waste management rules 2016.

iv) No waste of any type to be disposed of in any watercourse including drains, canals and the surrounding environment.

v) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016 and subsequent amendment.

5. Top Soil Management:

i) All the top soil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.

6. Construction Debris disposal:

i) Disposal of construction debris during construction phase should not create any adverse effect on the neighboring communities and be disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people. The construction

and demolition waste shall be managed as per Construction & Demolition Waste Management Rules, 2016.

ii) Construction spoils, including bituminous materials and other hazardous materials, must not be allowed to contaminate watercourses. The dump sites for such materials must be secured so that they should not leach into the adjacent land/ lake/ stream etc.

7. Diesel Generator sets:

i) Low Sulphur Diesel shall be used for operating diesel generator sets to be used during construction phase. The air and noise emission shall conform to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon.

ii) The diesel required for operating stand by DG sets shall be stored in barrels fulfilling the safety norms and if required, clearance from Chief Controller of Explosives shall be taken.

iii) The acoustic enclosures shall be installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower etc.

8. Air & Noise Pollution Control:

i) Vehicles hired for bringing construction materials to the site should be in good condition and should conform to air and noise emission standards, prescribed by TNPCB/CPCB. The vehicles should be operated only during non-peak hours.

ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during the construction phase. The pollution abatement measures shall be strictly implemented.

iii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Parking shall be fully internalized and no public space should be utilized. Parking plan to be as per CMDA norms. The traffic department shall be consulted and any cost-effective traffic regulative facility shall be met before commissioning.

iv) The buildings should have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation.

v) The project proponent should ensure that adequate Air Pollution Control measures shall be provided from buses and other vehicles, which will be entering the bus terminal. Further, water sprinkling system shall be provided and same shall be used at regular interval to control the dust emission within the project site.

9. Building material:

i) Fly-ash blocks should be used as building material in the construction as per the provision of Fly ash Notification of September, 1999 and amended as on 27th August, 2003 and Notification No. S.O. 2807 (E) dated: 03.11.2009.

ii) Ready-mix concrete shall alone be used in building construction and necessary cube-tests should be conducted to ascertain their quality.

iii) Use of glass shall be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, high quality double glass with special reflecting coating shall be used in windows.

10. Storm Water Drainage:

i) Storm water management around the site and on site shall be established by following the guidelines laid down by the storm water manual.

ii) Storm water management plan shall be obtained by engaging the services of Anna University/IIT.

11. Energy Conservation Measures:

i) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill the requirement.

ii) Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.

iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.

iv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.

v) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be

prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three month's time.

vi) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

12. Fire Safety:

i) Adequate fire protection equipments and rescue arrangements should be made as per the prescribed standards.

ii) Proper and free approach road for fire-fighting vehicles upto the buildings and for rescue operations in the event of emergency shall be made.

13. Green Belt Development:

i) The Project Proponent shall plant tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is completed.

ii) The proponent has to earmark the greenbelt area with dimension and GPS coordinates for the green belt area all along the boundary of the project site with at least 3 meter wide and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval.

iii) The proponent shall develop the green belt as per the plan furnished and area earmarked for the greenbelt shall not be alter at any point of time for any other purpose.

14. Sewage Treatment Plant:

i) The Sewage Treatment Plant (STP) installed should be certified by an independent expert/ reputed Academic institutions for its adequacy and a report in this regard should be submitted to the SEIAA, TN before the project is commissioned for operation. Explore the less power consuming systems viz baffle reactor, etc., for the treatment of sewage.

ii) The Proponent shall install STP as furnished. Any alteration to satisfy the bathing quality shall be informed to SEIAA-TN.

iii) The project proponent shall operate and maintain the Sewage treatment Plant and Effluent treatment plant effectively to meet out the standards prescribed by the CPCB.

iv) The project proponent shall continuously operate and maintain the Sewage treatment plant and Effluent treatment plant to achieve the standards prescribed by the CPCB.

v) The project proponent has to ensure the complete recycling of treated Sewage &Effluent water after achieving the standards prescribed by the CPCB.

vi) The project proponent has to provide separate standby D.G set for the STP/GWTP for the continuous operation of the STP/GWTP in case of power failure.

15. Rain Water Harvesting:

i) The proponent shall ensure that roof rain water collected from the covered roof of the buildings, etc shall be harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water shall be reused.

ii) Rain water harvesting for surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre-treatment with screens, settlers etc. must be done to remove suspended matter, oil and grease, etc.

iii) The Project Proponent has to provide adequate rain water harvesting pits as committed to recover and reuse the rain water during normal rains as reported.

i) The project activity should not cause any disturbance & deterioration of the local bio diversity.

16. Building Safety:

Lightning arrester shall be properly designed and installed at top of the building and where ever is necessary.

Part – D - Specific Conditions – Operational Phase/Post constructional phase/Entire life of the project:

1. There should be Firefighting plan and all required safety plan.
2. Regular fire drills should be held to create awareness among owners/ residents.
3. Hazardous waste such as batteries, small electronics, CFL bulbs, expired medicines and used cleaning solvent bottles should be segregated at source, collected once in a month from residences and disposed as per the SWM Rules 2016.
4. The building should not spoil the green views and aesthetics of surroundings and should provide enough clean air space.
5. Solar energy saving shall be increased to atleast10% of total energy utilization.

6. The Project proponent has to spend the CER as committed in the affidavit. The above activity shall be carried out before obtaining CTO from TNPCB.
7. The EMP cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually
8. The EMP cost shall be printed in the Brochure / Pamphlet for the preparation of the sale of the property and should also mention the component involved.
9. The Project proponent shall get due permission from the wetland Authority before the commencement of the work, if applicable.
10. The Project proponent should discuss with the wet land Authority, Tamil Nadu Forest Department, PWD and support lake restoration cum improvement, awareness and conservation programs.
11. The project activities should in no way disturb the manmade structures.
12. The Proponent shall do afforestation/ restoration programme contemplated to strengthen the open spaces shall preferably include native species along with the financial forecast for planting and maintenance for 5 years.
13. "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
14. Raw water quality to be checked for portability and if necessary, RO plant shall be provided.
15. The Proponent should be responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal, solid waste disposal and environmental monitoring including terrace gardening for a period of 3 years. Within one year after handing over the flats to all allottees a viable society or an association among the allottees shall be formed to take responsibility of continuous maintenance of all facilities with required agreements for compliance of all conditions furnished in Environment Clearance (EC) order issued by the SEIAA-TN or the Proponent himself shall maintain all the above facilities for the entire period. The copy of MOU between the buyers Association and proponent shall be communicated to SEIAA-TN.
16. The ground water level and its quality should be monitored and recorded regularly in consultation with Ground Water Authority.

17. Treated effluent emanating from STP shall be recycled / reused to the maximum extent possible. The treated sewage shall conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use. Necessary measures should be made to mitigate the odour and mosquito problem from STP.
18. The Proponent shall operate STP continuously by providing stand by DG set in case of power failure.
19. It is the sole responsibility of the proponent that the treated sewage water disposed for green belt development/ avenue plantation should not pollute the soil/ ground water/ adjacent canals/ lakes/ ponds, etc
20. Adequate measures should be taken to prevent odour emanating from solid waste processing plant and STP.
21. The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per E- waste (Management & Handling), Rules 2016 as amended.
22. Diesel power generating sets proposed as source of back-up power during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.
23. The noise level shall be maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time.
24. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous & other Wastes (Management & Transboundary Movement) Rules 2016. Spent oil from D.G sets should be disposed off through registered recyclers.
25. The proponent is required to provide a house hold hazardous waste / E-waste collection and disposal mechanism.
26. The proponent shall ensure that storm water drain provided at the project site shall be maintained without choking or without causing stagnation and should also ensure that the storm water shall be properly disposed off in the natural drainage / channels without disrupting the adjacent public. Adequate harvesting of the storm water should also be ensured.
27. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

28. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

The Environmental Clearance is issued based on the documents furnished by the project proponent. In case any documents found to be incorrect/not in order at a later date the Environmental Clearance issued to the project will be deemed to be revoked/ cancelled.

e-KYC
CAF
DSS
e-Processing
e-Payments
e-Compliance
KYA
PARIVESH
CPC GREEN
Nature Protects if She is Protected

Signed by
Rahul Nadh Anikkadu Reghunadhan
Date: 31-01-2026 18:48:26
Reason: Verified and signed

To

The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
Maraimalai Adigalar Street,
Next to Municipal Office,
Maraimalai Nagar, Chengalpet District -603 209

Dear Sir,

Sub: Submission of Form V Environmental statement of "M/s Emerald Haven Life Spaces 2 Private Limited & M/s. Emerald Haven Life Spaces 3 Private Limited, Proposed Construction of High rise building for Residential purpose in T.S.No. 30, etc., Ward No. C of Zamin Pallavaram Village, Pallavaram Taluk & Town, Chengalpattu District, TamilNadu - Reg

Ref:

1. Environmental Clearance obtained from SEIAA, Tamil Nadu, EC Identification No. EC25B3812TN5223756N dated:31.01.2026.
2. Air Consent Order No: 2601273622130, Dated: 06/04/2026
3. Water Consent Order No: 2601173622130, Dated: 06/04/2026

///

With respect to the above subject, we are herewith submitting Environmental Statement Form V for the financial year ending with 31st March 2026.

This is for your information and record.

Thanking You,
Yours faithfully,

For M/s Emerald Haven Life Spaces 2 Private Limited &
M/s. Emerald Haven Life Spaces 3 Private Limited

19 MAY 2026

Emerald Haven Life Spaces 2 Private Limited
(Formerly Known as Radial (Phase II) IT Park Private Limited
Registered Office : Ispahani Centre, 4th Floor, No.123, 124 Nungambakkam High Road, Nungambakkam, Chennai - 600 034. T : (91) 44-2436 1261, E: corpsec@tvsemerald.com W: www.tvsemerald.com
CIN: U70109TN2019PTC129475 GSTIN : 33AAJCR6162L1Z1

Gmail

Radial PTR <ptrradial@gmail.com>

Six monthly Environment Clearance Compliance report for December 2026

1 message

Radial PTR <ptrradial@gmail.com> Tue, Oct 13, 2026 at 2:26 PM
To: rdchennai.cpcb@gov.in

Dear sir,

We hereby submit the six monthly Environment Clearance Compliance report for December 2026 for the period April 2026 - September 2026 of M/s Emerald Haven Life Spaces 2 Private Limited & Emerald Haven Life Spaces 3 Private Limited for Proposed Construction of High rise building for Residential Purposes in T.S.No. 30,134 and 135 in Block No. 19 and T.S.No. 96/3, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108,109, 110, 111, 112,
113, 114, 115, 116, 117, 118, 119, 120, 122, 123, 124, 125, 126, 127, 128, 129, 134,135, 139, in Block No. 21, Ward No. C of Zamin Pallavaram Village, Pallavaram Taluk & Town, Chengalpattu District, Tamil Nadu with required Annexures and covering letter.

Ref: 1. Environmental Clearance obtained from SEIAA, Tamil Nadu, L EC Identification No. EC25B3812TN5223756N dated: 31.01.2026

HYCR REPORT.pdf
4910K

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	557635
Compliance ID	1227832281
Compliance Number(For Tracking)	EC/M/COMPLIANCE/1227832281/2026
Reporting Year	2026
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	13-10-2026
RO/SRO Name	Shri V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	TAMIL NADU
RO/SRO Office Address	Integrated Regional Offices, Chennai
Note:- SMS and E-Mail has been sent to Shri V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.	

Gmail

Radial PTR <ptrradial@gmail.com>

Six monthly Environment Clearance Compliance report for December 2026

1 message

Radial PTR <ptrradial@gmail.com> Tue, Oct 13, 2026 at 2:25 PM
To: "envcompseiaatn@gmail.com" <envcompseiaatn@gmail.com>

Dear sir,
We hereby submit the six monthly Environment Clearance Compliance report for December 2026 for the period April 2026 - September 2026 of M/s Emerald Haven Life Spaces 2 Private Limited & Emerald Haven Life Spaces 3 Private Limited for Proposed Construction of High rise building for Residential Purposes in T.S.No. 30,134 and 135 in Block No. 19 and T.S.No. 96/3, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108,109, 110, 111, 112,
113, 114, 115, 116, 117, 118, 119, 120, 122, 123, 124, 125, 126, 127, 128, 129, 134,135, 139, in Block No. 21, Ward No. C of Zamin Pallavaram Village, Pallavaram Taluk & Town, Chengalpattu District, Tamil Nadu with required Annexures and covering letter.

Ref: 1. Environmental Clearance obtained from SEIAA, Tamil Nadu, L EC Identification No. EC25B3812TN5223756N dated: 31.01.2026

HYCR REPORT.pdf
4678K

8 October 2026,

To
The Chairman,
Tamil Nadu Pollution Control Board,
No – 76, Mount Road, Guindy,
Chennai – 600 032.

Sub: Submission of **Six-Monthly Environmental Clearance Compliance Report December 2026** for the period from **April 2026 – September 2026** of M/s. Emerald Haven Towers Ltd for Proposed Construction of High rise building for Residential Purposes in T.S.No. 30,134 and 135 in Block No. 19 and T.S.No. 96/3, etc., in Block No. 21, Ward No. C of Zamin Pallavaram Village, Pallavaram Taluk & Town, Chengalpattu District, Tamil Nadu, By M/s. Emerald Haven Life Spaces 2 Private Limited & M/s. Emerald Haven Life Spaces 3 Private Limited– Reg.

Ref: 1. EC Identification No. EC25B3812TN5223756N dated: 31.01.2026

Dear Sir/Madam,

With reference to the above vide letter mentioned, we wish to inform you that we have obtained Environmental Clearance (EC) for Proposed Construction of High rise building for Residential Purposes in T.S.No. 30,134 and 135 in Block No. 19 and T.S.No. 96/3, etc., in Block No. 21, Ward No. C of Zamin Pallavaram Village, Pallavaram Taluk & Town, Chengalpattu District, Tamil Nadu.

Herewith we enclose the compliance report **December 2026** for the conditions mentioned in our EC. We request you to accept and acknowledge the same.

Thanking You,
Yours faithfully,
For Emerald Haven Life Spaces 2 Private Limited &
Emerald Haven Life Spaces 3 Private Limited

Authorized Signatory

Enclosed: Post Event Compliance Report along with Annexure.

14 OCT 2026

Emerald Haven Life Spaces 2 Private Limited
(Formerly Known as Radial (Phase II) IT Park Private Limited
Registered Office : Ispahani Centre, 4th Floor, No.123, 124 Nungambakkam High Road,
Nungambakkam, Chennai - 600 034. T : (91) 44-2436 1261, E: corpsec@tvsemerald.com W : www.tvsemerald.com
CIN: U70109TN2019PTC129475 GSTIN : 33AAJCR6162L1Z1