



EHS MATRIX

PRIVATE LIMITED


Sr. No.30/7, Office No. 202, 203, Chintamani Industrial Estate,
Near Dran Company, Dhayari, Pune - 411041, Maharashtra, India.

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TEST REPORT

TEST REPORT					
Report No:		EHSM/2022/Nov/R-450		Issue Date	14/11/2022
Name and Address of Customer		M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune			
Sample Name		Air	Sample Description		Ambient Air
Date of Sampling		09/11/2022	Sampling duration		1440 Min
Start Date of Analysis		10/11/2022	End Date of Analysis		14/11/2022
Sampling Location		Near STP	Sampling Procedure		CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry bulb temperature		29 ^o C	Wet bulb temperature		26 ^o C
Relative Humidity		62 %	Sampling done by		Lab Representative
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide(SO ₂)	19.6	µg/m ³	≤ 80	IS 5182(Part 2)
2	Oxides of Nitrogen(NO ₂)	20.8	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	45.6	µg/m ³	≤ 100	CPCB Guideline for measurement of Ambient Air pollutants Volume I
4	Particulate Matter PM _{2.5}	23.9	µg/m ³	≤ 60	
5	Carbon Monoxide (CO)	1.0	mg/m ³	≤ 04	
6	Ozone(O ₃)	18.6	µg/m ³	≤ 180	
7	Lead (Pb)	BDL	µg/m ³	≤ 01	
8	Arsenic(As)	BDL	ng/m ³	≤ 06	
9	Nickel(Ni)	BDL	ng/m ³	≤ 20	
10	Ammonia(NH ₃) ,	BDL	µg/m ³	≤ 400	
11	Benzo(a)Pyrene(BaP)	BDL	ng/ m ³	≤ 1.0	
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 (Part 11)
Remark- All above results are within National Ambient Air Quality standards. BDL – Below Detectable Limit.					


Checked by
Miss. Aishwarya Shetty
(Technical Manager)




Authorized Signatory
Mr. Rahul Patil
(Director)

Page 01 of 01

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S.O. 3511 (E), Dated 24th August 2021 valid till 9th September 2023.

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Branch Office Address :
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Kolhapur - 416008.
+91 98343 07334

CERTIFICATIONS :
ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018



TEST REPORT

Report No:	EHSM/2022/Nov/R-451	Issue Date	14/11/2022
Name and Address of Customer	M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune		
Sample Name	Air	Sample Description	Ambient Air
Date of Sampling	09/11/2022	Sampling duration	1440 Min
Start Date of Analysis	10/11/2022	End Date of Analysis	09/05/2022
Sampling Location	Near Backside of the Project	Sampling Procedure	CPCB Guideline for measurement of Ambient Air pollutants Volume I
Dry bulb temperature	29°C	Wet bulb temperature	26°C
Relative Humidity	62 %	Sampling done by	Lab Representative

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide(SO ₂)	19.0	µg/m ³	≤ 80	IS 5182(Part 2)
2	Oxides of Nitrogen(NO ₂)	21.3	µg/m ³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM ₁₀	44.9	µg/m ³	≤ 100	CPCB Guideline for measurement of Ambient Air pollutants Volume I
4	Particulate Matter PM _{2.5}	22.5	µg/m ³	≤ 60	
5	Carbon Monoxide (CO)	0.9	mg/m ³	≤ 04	
6	Ozone(O ₃)	16.3	µg/m ³	≤ 180	
7	Lead (Pb)	BDL	µg/m ³	≤ 01	
8	Arsenic(As)	BDL	ng/m ³	≤ 06	
9	Nickel(Ni)	BDL	ng/m ³	≤ 20	
10	Ammonia(NH ₃)	BDL	µg/m ³	≤ 400	
11	Benzo(a)Pyrene(BaP)	BDL	ng/ m ³	≤ 1.0	
12	Benzene(C ₆ H ₆)	BDL	µg/m ³	≤ 05	IS 5182 (Part 11)

Remark- All above results are within National Ambient Air Quality standards.
BDL – Below Detectable Limit.

Ashetty

Checked by

Miss. Ashwarya Shetty
(Technical Manager)



Rahul Patil

Authorized Signatory
Mr. Rahul Patil
(Director)



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TEST REPORT

Report No:	EHSM/2022/Nov/R-452	Issue Date	14/11/2022
Name and Address of Customer	M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune		
Sample Name	Noise	Sample Description	Ambient Noise
Date of Sampling	09/11/2022	Sampling duration	Spot Time
Sampling done by	Lab Representative		

Results

Sr. No.	Locations	12.30 Hrs Result dB(A) Day	22.00 Hrs Result dB(A) Night	Specifications (CPCB Standards dB(A))	Method
1.	Near Site Office	52.9	43.6	55/45	CPCB Guideline
2.	Near STP	49.6	41.5		
3.	Near DG Set	51.2	42.9		
4.	Near Building Parking	49.3	43.0		
5.	Near Main Gate	50.9	40.6		
6.	Front of Building	51.9	43.7		
7.	Backside of building	46.0	40.3		

Remark-

- All above Noise level results are within Central Pollution Control Board Standards limit.
- Day/Night -55/45 dB.



Checked by
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Page 01 of 01

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Report No:	EHSM/2022/Nov/R-453	Issue Date	14/11/2022
Name and Address of Customer	M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune		
Sample Name	Water	Sample Description	Drinking Water
Date of Sampling	09/11/2022	Sampling Time	10 AM
Sampling Location	Drinking Water	Sampling Procedure	APHA 1060
Sampling done by	Lab Rep	Sample Quantity	01 L
Start Date of Analysis	10/11/2022	End Date of Analysis	14/11/2022

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (IS 10500:2012)	Methods
1	Colour	Clear	<5	Hazen	APHA 2120
2	Turbidity	<5	NTU	5	APHA 2130 B, 23 rd Ed.2017
3	Odour	Agreeable	Agreeable	--	APHA 2150
4	pH at 25°C	7.4	--	6.5 to 8.5	APHA 4500 H+ A, 23 rd Ed.2017
5	Total Dissolved Solids TDS	12.5	mg/L	<2000	APHA 2540 C, 23 rd Ed.2017
6	Total Hardness (as CaCO ₃)	36.9	mg/L	<600	IS 3025 (Part 21):2009
7	Total Alkalinity (as CaCO ₃)	39.1	mg/L	<600	IS 3025 (Part 23):1986
8	Sulphate (as SO ₄)	< 5.0	mg/L	<400	IS 3025 (Part 24):1986
9	Chloride (as Cl)	14.9	mg/L	<1000	APHA 4500 Cl, 23 rd Ed.2017
10	Calcium (as Ca)	16.3	mg/L	<200	IS 3025 (Part 40) 1991
11	Magnesium (as Mg)	4.3	mg/L	<100	IS 3025 (Part 46) 1994
12	Iron (as Fe)	< 0.1	mg/L	0.3	APHA 3111, 23 rd Ed.2017
13	Total Coliform	Absent	MPN/100ml	<2	IS 15185
14	Escherichia coli	Absent	MPN/100ml	<2	IS 15185

REMARKS – All the Parameters are within IS 10500:2012 Limits

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Checked by

Miss. Aishwarya Shetty
(Technical Manager)



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Page 01 of 01

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TEST REPORT

Report No:	EHSM/2022/Nov/R-454	Issue Date	14/11/2022
Name and Address of Customer	M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune		
Sample Name	Soil	Sample Description	Solid
Date of Sampling	09/11/2022	Sampling Time	10:35 AM
Sampling Location	---	Sampling Procedure	--
Sampling done by	Lab Representative	Sample Quantity	01 kg
Start Date of Analysis	10/11/2022	End Date of Analysis	14/11/2022

Results

Sr. No.	Parameters	Results	Unit(s)	Methods
1	Soil Texture			Manual Of Soil Testing
	a) Sand	23	%	
	b) Silt	30	%	
	c) Clay	47	%	
	A. Soil type	Silty clay	-	
2	pH at 25°C	7.6	--	IS 2720(Part 26) 1987
3	EC at 25°C	1966.5	µS/cm	IS 14767 : 2000
4	Moisture Content	7.2	%	Manual Of Soil Testing
5	Organic Matter	4.1	%	IS 2720(Part 22) 1972
6	Cation Exchange Capacity	3.9	meq/100g	Manual Of Soil Testing
7	Total Soluble Sulphate	13.4	mg/Kg	Manual Of Soil Testing
8	Available Phosphorus	16.9	mg/Kg	Manual Of Soil Testing
9	Available Nitrogen	140.2	mg/Kg	Manual Of Soil Testing
10	Water Holding	49.3	%	Manual Of Soil Testing
11	Calcium as (Ca)	25.9	mg/Kg	Manual Of Soil Testing
12	Magnesium as (Mg)	11.0	mg/Kg	Manual Of Soil Testing
13	Lead (as Pb)	<0.02	mg/Kg	Manual Of Soil Testing
14	Copper (as Cu)	<0.08	mg/Kg	Manual Of Soil Testing
15	Zinc (as Zn)	7.0	mg/Kg	Manual Of Soil Testing
16	Cadmium (as Cd)	<0.04	mg/Kg	Manual Of Soil Testing
17	Iron (as Fe)	2.8	mg/Kg	Manual Of Soil Testing
18	Manganese (as Mn)	1.1	mg/Kg	Manual Of Soil Testing

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Page 01 of 01

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Report No:	EHSM/2022/Nov/R-455	Issue Date	14/11/2022
Name and Address of Customer	M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune		
Sample Name	Source Emission	Sample Description	Stack Material : MS Stack Height 2.0 mtr Stack Type : Round
Date of Sampling	09/11/2022		
Start Date of Analysis	10/11/2022		
End Date of Analysis	14/11/2022	Sampling Location	DG S # 1 (100 KVA)
Sampling done by	Lab Representative	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	425	°K		--
2	Differential Pressure	3.5	mm WG		
3	Velocity	7.32	M/s		
4	Dimensions of Stack	0.1	Mtr.		
5	Stack Area	0.00785	M ²		
6	Gas Volume	145.12	Nm ³ /Hr		
7	Particulate Matter	45.9	mg/Nm ³	≤ 150	CPCB uideline on methodologies for source emission monitoring
8	Sulphur Dioxide (SO ₂)	27.6	mg/Nm ³	--	
9	Sulphur Dioxide (SO ₂)	0.09	Kg/day	≤ 3	
10	Oxide of Nitrogen (NO _x)	3.9	mg/Nm ³	N.S.	

Remark- All above results are well within MPCB Limit.
BDL:- Below Detection Limit

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Miss. Aishwarya Shetty
(Technical Manager)



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Page 01 of 01

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Name and Address of Customer	M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune		
Sample Name	Source Emission	Sample Description	Stack Material : MS Stack Height 2.0 mtr Stack Type : Round
Date of Sampling	09/11/2022		
Start Date of Analysis	10/11/2022		
End Date of Analysis	14/11/2022	Sampling Location	DG S # 2 (100 KVA)
Sampling done by	Lab Representative	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	429	°K		--
2	Differential Pressure	3.3	mm WG		
3	Velocity	7.14	M/s		
4	Dimensions of Stack	0.100	Mtr.		
5	Stack Area	0.00785	M ²		
6	Gas Volume	140.26	Nm ³ /Hr		
7	Particulate Matter	48.0	mg/Nm ³	≤ 150	CPCB Guideline on methodologies for source emission monitoring
8	Sulphur Dioxide (SO ₂)	30.4	mg/Nm ³	--	
9	Sulphur Dioxide (SO ₂)	0.10	Kg/day	≤ 3	
10	Oxide of Nitrogen (NO _x)	3.4	mg/Nm ³	N.S.	

Remark- All above results are well within MPCB Limit.

BDL:- Below Detection Limit



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Checked by

Miss. Aishwarya Shetty
(Technical Manager)

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Page 01 of 01

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TEST REPORT

Report No:	EHSM/2022/Nov/R-457	Issue Date	14/11/2022
Name and Address of Customer	M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune		
Sample Name	Source Emission	Sample Description	Stack Material : MS Stack Height 2.0 mtr Stack Type : Round
Date of Sampling	09/11/2022		
Start Date of Analysis	10/11/2022		
End Date of Analysis	14/11/2022	Sampling Location	DG S # 3 (100 KVA)
Sampling done by	Lab Representative	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	432	°K		--
2	Differential Pressure	3.3	mm WG		
3	Velocity	7.17	M/s		
4	Dimensions of Stack	0.100	Mtr.		
5	Stack Area	0.00785	M ²		
6	Gas Volume	139.77	Nm ³ /Hr		
7	Particulate Matter	46.9	mg/Nm ³	≤ 150	CPCB Guideline on methodologies for source emission monitoring
8	Sulphur Dioxide (SO ₂)	26.9	mg/Nm ³	--	
9	Sulphur Dioxide (SO ₂)	0.09	Kg/day	≤ 3	
10	Oxide of Nitrogen (NO _x)	3.0	mg/Nm ³	N.S.	

Remark- All above results are well within MPCB Limit.
BDL:- Below Detection Limit

Aishwarya Shetty

Checked by
Miss. Aishwarya Shetty
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Name and Address of Customer	M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune		
Sample Name	Source Emission	Sample Description	Stack Material : MS Stack Height 2.0 mtr Stack Type : Round
Date of Sampling	09/11/2022		
Start Date of Analysis	10/11/2022		
End Date of Analysis	14/11/2022	Sampling Location	DG S # 4 (100 KVA)
Sampling done by	Lab Representative	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	438	°K		--
2	Differential Pressure	3.6	mm WG		
3	Velocity	7.21	M/s		
4	Dimensions of Stack	0.100	Mtr.		
5	Stack Area	0.00785	M ²		
6	Gas Volume	138.81	Nm ³ /Hr		
7	Particulate Matter	44.6	mg/Nm ³	≤ 150	CPCB Guideline on methodologies for source emission monitoring
8	Sulphur Dioxide (SO ₂)	35.9	mg/Nm ³	--	
9	Sulphur Dioxide (SO ₂)	0.12	Kg/day	≤ 3	
10	Oxide of Nitrogen (NO _x)	4.2	mg/Nm ³	N.S.	

Remark- All above results are well within MPCB Limit.
BDL.: - Below Detection Limit

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Report No:	EHSM/2022/Nov/R-459	Issue Date	14/11/2022
Name and Address of Customer	M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune		
Sample Name	Source Emission	Sample Description	Stack Material : MS Stack Height 2.0 mtr Stack Type : Round
Date of Sampling	09/11/2022		
Start Date of Analysis	10/11/2022		
End Date of Analysis	14/11/2022	Sampling Location	DG S # 5 (100 KVA)
Sampling done by	Lab Representative	Sampling duration	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	434	°K		--
2	Differential Pressure	3.2	mm WG		
3	Velocity	7.07	M/s		
4	Dimensions of Stack	0.100	Mtr.		
5	Stack Area	0.00785	M ²		
6	Gas Volume	137.32	Nm ³ /Hr		
7	Particulate Matter	46.3	mg/Nm ³	≤ 150	CPCB Guideline on methodologies for source emission monitoring
8	Sulphur Dioxide (SO ₂)	29.6	mg/Nm ³	--	
9	Sulphur Dioxide (SO ₂)	0.09	Kg/day	≤ 3	
10	Oxide of Nitrogen (NO _x)	3.0	mg/Nm ³	N.S.	

Remark- All above results are well within MPCB Limit.

BDL.: - Below Detection Limit

Aishwarya Shetty

Checked by
Miss. Aishwarya Shetty
(Technical Manager)



Rahul Patil

Authorized Signatory
Mr. Rahul Patil
(Director)

Page 01 of 01

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S.O. 3511 (E), Dated 24th August 2021 valid till 9th September 2023.

Register Office Address :
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Branch Office Address :
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+91 98343 07334

CERTIFICATIONS :
ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018




EHS MATRIX

PRIVATE LIMITED

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www.ehsmatrix.co.in ehsmatrixpune@gmail.com

TEST REPORT

TEST REPORT					
Report No:		EHSM/2022/Nov/R-459		Issue Date	
				14/11/2022	
Name and Address of Customer		M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune			
Sample Name		Source Emission		Sample Description	Stack Material : MS Stack Height 2.0 mtr Stack Type : Round
Date of Sampling		09/11/2022			
Start Date of Analysis		10/11/2022			
End Date of Analysis		14/11/2022		Sampling Location	DG S # 6 (125 KVA)
Sampling done by		Lab Representative		Sampling duration	30 Min
Sample Quantity		Thimble 1 Nos and 30 ml Solution		Sampling Procedure	CPCB Guideline on methodologies for source emission monitoring
Results					
Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	428	°K		--
2	Differential Pressure	3.5	mm WG		
3	Velocity	7.34	M/s		
4	Dimensions of Stack	0.100	Mtr.		
5	Stack Area	0.00785	M ²		
6	Gas Volume	144.61	Nm ³ /Hr		
7	Particulate Matter	42.9	mg/Nm ³	≤ 150	CPCB Guideline on methodologies for source emission monitoring
8	Sulphur Dioxide (SO2)	29.3	mg/Nm ³	--	
9	Sulphur Dioxide (SO2)	0.101	Kg/day	≤ 3	
10	Oxide of Nitrogen (NO _x)	3.1	mg/Nm ³	N.S.	
Remark- All above results are well within MPCB Limit. BDL.: - Below Detection Limit					


Checked by
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(Technical Manager)




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Page 01 of 01

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TEST REPORT

Report No:	EHSM/2022/Nov/R-460	Issue Date	14/11/2022
Name and Address of Customer	M/s. Aditya Constructions "Aditya Garden City" S. No. 109 & 110, Waraje Dist-Pune		
Sample Name	Water	Sample Description	STP Inlet
Date of Sampling	09/11/2022	Sampling Time	10: 45 AM
Sampling Location	STP	Sampling Procedure	APHA
Sampling done by	Client	Sample Quantity	01 L
Start Date of Analysis	10/11/2022	End Date of Analysis	14/11/2022

Results

Sr. No.	Parameters	Results	Unit(s)	Methods
1	Total Suspended Solids	73.5	mg/lit	APHA 2540-D
2	pH	7.5	--	APHA 4500 -H ⁺
3	BOD at 27°C for 3 days	53.0	mg/lit	Modified Wrinkler's Idometric Method
4	COD	108.9	mg/lit	APHA 5220 B
5.	Residual Chlorine	0.41	mg/lit	IS:3025 (Part 26) 1986


Checked by
Miss. Aishwarya Shetty
(Technical Manager)




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(Director)

Page 01 of 01

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TEST REPORT

Report No:		EHSM/2022/Nov/R-461		Issue Date	14/11/2022
Name and Address of Customer		M/s. Aditya Constructions “Aditya Garden City” S. No. 109 & 110, Waraje Dist-Pune			
Sample Name		Water		Sample Description	STP Outlet
Date of Sampling		09/11/2022		Sampling Time	10: 55 AM
Sampling Location		STP		Sampling Procedure	APHA
Sampling done by		Client		Sample Quantity	01 L
Start Date of Analysis		10/11/2022		End Date of Analysis	14/11/2022
Results					
Sr. No.	Parameters	Results	Unit(s)	Limits	Methods
1	Total Suspended Solid	14.2	mg/lit	<20	APHA 2540-D
2	pH	7.3	--	5.5-9.0	APHA 4500 –H ⁺
3	BOD at 27°C for 3 days	7.4	mg/lit	<10	Modified Wrinkler’s Idometric Method
4	COD	19.6	mg/lit	<50	APHA 5220 B
5.	Residual Chlorine	<0.07	mg/lit	<01	IS:3025 (Part 26) 1986



Aishetty
Checked by
Miss. Aishwarya Shetty
(Technical Manager)

Rahul Patil
Authorized Signatory
Mr. Rahul Patil
(Director)

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CERTIFICATIONS :
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ISO 14001 : 2015
ISO 45001 : 2018

Date :

Ref. No.

UNDERTAKING

This is to inform you that, there is no court Case filed or pending against our company, M/s. Aditya Construction having residential project at- S.No.109 & 110, Aditya's A Garden City, Warje, Pune-411058, with reference to the Environmental Clearance granted vide Letter No.SEIAA-EC0000001502, dated 07/05/2019. We also confirm that the construction is in progress and Architect Certificate is incorporated accordingly. We also confirm that no stop work has been issued by MPCB/CPCB to our said project.

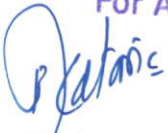
Hence this undertaking.

Date: 17/04/2023

Place: Pune

For M/s. **Aditya Constructions**

For Aditya Constructions



Partner

Partner

Corporate Office :

619, Sadashiv Peth, Bajirao Road, Pune - 411 030.
Tel : +91-20-24490851 / 2 Fax : +91-20-24459146.
Email : info@adityabuilders.com

Mumbai Office :

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www.adityabuilders.com

Environmental Management Plan (EMP)

Environment Management Plan

Sr. No.	Media	Aspect	Mitigation measures	Implementation Schedule	Responsibility
1	Air	Dust emissions from excavation, material handling and other construction activities.	<ol style="list-style-type: none"> 1. Provision of spraying water to reduce dust emission on roads. 2. Excavated topsoil to be preserved and reused for landscaping. 3. The amount of exposed ground and stockpiles will be minimized so that re-suspension due to wind and subsequent dust fall is prevented. 4. Ensuring all vehicles, generators and compressors are well maintained and regularly serviced. 	<p>Three times in peak construction activity in summer season</p> <p>Before construction activity storage area shall be constructed</p>	<p>Site Engineer</p> <p>Project Proponent/ Site Contractor</p>
2	Noise	Noise generated from construction activities, operation of construction equipment and traffic.	<ol style="list-style-type: none"> 1. Use of well-maintained equipment fitted with silencers. 2. Providing noise shields near the heavy construction operations 3. Use of Personal Protective Equipment (PPE) like ear muffs and ear plug for workers during construction activities 	Prior to construction activity of proposed Buildings	Project Proponent/ Site Contractor
3	Water	Surface runoff from project site, Oil/ fuel and waste spills, Improper debris disposal/sewage disposal	<ol style="list-style-type: none"> 1. Sewage generated from construction labors for proposed building shall be treated in mobile STP of. No labor camps are proposed. Minimum 5 mobile toilets will be provided. 2. Silt traps and other measures such as, additional on-site diversion ditches will be constructed to control surface run-off during site development. 3. Oil and grease traps for parking bays 	Prior to start structure work (peak construction activity)	Site Engineer / Safety Officer
4	Land use and aesthetics	Land use is residential and project proposed is Residential	Green Belt development with trees and of RG area	During Construction activity	Project Proponent

5	Soil	Construction activity leading to topsoil removal and erosion.	Excavation only for foundation for proposed buildings. Top soil shall be used for landscaping.	At the time of Foundation activity and site preparation	Site Engineer
6	Ecology, flora and fauna	Disposal of construction and demolition debris. Contamination of soil due to leakage of oil from vehicles	1. Construction debris will be collected and suitably used on site as per construction waste management plan. 2. Effective measures will be taken to prevent leakage of oil	During Construction	Project Proponent

Cost Environmental Management Plan (EMP)

ANNEXURE – III

Cost of Environmental Management Plan

a) Construction Phase with Break up

Sr. No.	Attributes	Parameter	Total Cost per Annum (rs. In Lacs)
01	Water & Dust Suppression	Air Pollution Control	1.0
02	Site Sanitation & Safety	Health & safety	1.2
03	Environmental Monitoring	Pollution Control	1.8
04	Disinfection	Health & Safety	0.5
05	Health Checkup	Health & Safety	0.5

b) Operation Phase with Break up

Sr. No.	Particulars		Capital Cost (INR) in Lacs	Maintenance Cost (INR/Year) in Lacs
1.	Rain water Harvesting	RWH Pits	0.40	1.0
2.	Sewage Treatment Plant	Waste Water Treatment Plant	33.0	23.64
3.	Organic Waste Composting	Solid Waste Management	5.70	15.12
4.	Tree Plantation	Landscape Development	0.0	4.5
5.	Energy Saving	Non-Conventional Use of Energy	45.73	22.48
6.	Environmental Monitoring	Pollution Monitoring & Mitigation	0.0	1.8
Total			84.83	68.54