

ANNEXURE-I

**GROUND WATER
ANALYSIS REPORT**

Sl. No.	Location	Date	Parameter	Value	Remarks
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

WATER ANALYSIS REPORT

Rep.No: 171009_14080059_0

Date: 09/10/17

Name & Address of Client	M/s. Subham Buildwell R.G. Baruah Road, Village- Japorigog, Mouza-Beltola, Dist: Kamrup, Guwahati, Assam
Sample Description	Ground Water
Date of Sampling	29/09/17
Sample collected by	M/s. En-vision Enviro Technologies North East

SI No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
1	p ^H	---	7.08	Potentiometric	6.5-8.5	No relaxation
2	Turbidity	NTU	0.2	Nephelometric	1.0	5.0
3	TDS	mg/L	157.4	Dried at 105° C	500	2000
4	DO	mg/L	5.9	Azide Modification	----	----
5	Total hardness	mg/L	128.5	EDTA Titrimetric	200	600
6	Calcium	mg/L	33.6	EDTA Titrimetric	75	200
7	Magnesium	mg/L	17.2	EDTA Titrimetric	30	100
8	Total Alkalinity	mg/L	148.5	Titrimetric	200	600
9	Chloride	mg/L	24.1	Argentometric	250	1000
10	Sulphate	mg/L	8.73	Turbidimetric	200	400
11	Residual Chlorine	mg/L	BDL	Iodometric	0.2	1.0

Cont...



Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
12	Nitrates	mg/L	4.62	Spectrophotometric	45	No relaxation
13	Fluoride	mg/L	0.49	SPADNS Method	1.0	1.5
14	Copper	mg/L	0.0163	Flame AAS	0.05	1.5
15	Iron(as Fe)	mg/L	0.1895	Flame AAS	0.3	No relaxation
16	Cadmium	mg/L	BDL	Flame AAS	0.003	No relaxation
17	Lead	mg/L	BDL	Flame AAS	0.01	No relaxation
18	Zinc	mg/L	0.5133	Flame AAS	5	15
19	Total Chromium	mg/L	0.0028	Flame AAS	0.05	No relaxation
20	Manganese	mg/L	0.0587	Flame AAS	0.1	0.3
21	Selenium	mg/L	BDL	Flame AAS	0.01	No relaxation
22	BOD	mg/L	8.4	Incubation 3 days, 27°C	----	----
23	COD	mg/L	36.9	Dichromate Reflux	----	----

TDS Total Dissolved Solids, DO Dissolved Oxygen, COD Chemical Oxygen Demand, BOD Biochemical Oxygen Demand
All the measurement methods conform to IS 10500:2012 & World Health Organization (WHO) Guidelines.

For En-vision Enviro Technologies North East, Guwahati



(Quality Control Manager)

- Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Parameter no.13 to 21 are analysed by EIA Project, Gauhati University as per our MOU.

ANNEXURE-II

MONITORING REPORTS

2017-18
2017-18



SOIL ANALYSIS REPORT

Rep.No: 171009_14080059_0

Date: 09/10/17

Name & Address of Client	M/S. Subham Buildwell R.G. Baruah Road, Village- Japorigog, Mouza-Beltola, Dist: Kamrup, Guwahati, Assam
Sample Description	Soil collected from Project site
Date of Sampling	29/09/17
Sample collected by	M/s En-vision Enviro Technologies North East

Sl No.	Soil Parameters	Unit	Result	Reference Method
1	pH	---	6.7	Potentiometric
2	Soil type	----	Loamy Sand	Hydrometer
	Sand	%	73.2	Hydrometer
	Clay	%	19.6	Hydrometer
	Silt	%	7.2	Hydrometer
3	Nitrogen	kg/ha	187.6	Alkaline KMnO ₄
4	Phosphorus	mg/kg	60.5	Olsen method
5	Potassium	mg/kg	41.24	NH ₄ -acetate extraction
6	Electrical conductivity	mS/cm	1.47	Conductivity Meter
7	Water holding capacity	%	1.55	Standard method
8	Organic matter	%	1.39	Titrimetric
9	Salinity	mS/cm	1.47	Conductometric
10	Iron	g/kg	26.85	Flame AAS (mg/kg)

Cont..



SI No.	Parameters	Unit	Result	Reference Method
11	Copper	mg/kg	11.32	Flame AAS
12	Nickel	mg/kg	9.88	Flame AAS
13	Manganese	g/kg	1.76	Flame AAS (mg/kg)
14	Zinc	mg/kg	48.3	Flame AAS
15	Sodium Absorption Ratio	mol/kg	0.59	Computation
16	Chlorides	mg/kg	126.5	Argentometric

For En-vision Enviro Technologies North East, Guwahati



(Quality Control Manager)

- Note: i) The results relate only to the parameter tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Parameter no.4,10 to 15 are analysed by EIA Project, Gauhati University as per our MOU.

AMBIENT AIR ANALYSIS REPORT

Rep.No. 171004_13010037_01_038/04

Date: 04/10/2017

Name & Address:

M/s. Subham Buildwell
R.G. Baruah Road,
Vill: Japorigog, Mouza: Beltola,
Dist: Kamrup, Guwahati, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	WEATHER	PARAMETERS			
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO _x (µg/m ³)	SO ₂ (µg/m ³)
i)	29/09/17	Near North West Side	Clear	51.7	28.2	13.6	3.8
ii)		Near South West Side		50.9	27.4	12.0	4.5

Remarks: - Parameters are within the permissible limit.

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural and Other Area	
1	Sulphur Dioxide (SO ₂), µg/m ³	Annual	50	
		24 hours		80
2	Nitrogen Dioxide (NO _x), µg/m ³	Annual	40	
		24 hours		80
3	Particulate Matter (PM ₁₀), µg/m ³	Annual	60	
		24 hours		100
4	Particulate Matter (PM _{2.5}), µg/m ³	Annual	40	
		24 hours		60

Envision Enviro Technologies North East, Guwahati

1	Prepared by (Office Executive)	
2	Sample collection & analysis by (Sr. Environment Chemist)	
3	Cross-checked by (Environment Executive)	
4	Released by (Quality control Manager)	

Note: i) The results relate only to the parameters tested
ii) The test report shall not be reproduced except in full, without written approval of laboratory

Recognized by Pollution Control Board, Assam; MSME & An ISO 9001:2015 & OHSAS 18001:2007 Certified Firm

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. 171004_13010037_06A_040 /04

Date: 04/10/2017

Name & Address:


M/s. Subham Buildwell
R.G. Baruah Road,
Vill: Japorigog, Mouza: Beltola,
Dist: Kamrup, Guwahati, Assam.

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	29/09/17	Near Main Gate	53.7
ii)		Near DG Station	52.0

Ambient Noise Standards:

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

ENVISION ENVIRO TECHNOLOGIES NORTH EAST, GUWAHATI

1	PREPARED BY (OFFICE EXECUTIVE)	
2	SAMPLE COLLECTION & ANALYSIS BY (SR. ENVIRONMENT CHEMIST)	
3	CROSS-CHECKED BY (ENVIRONMENT EXECUTIVE)	
4	Released by (Quality control Manager)	

Note: i) The results relate only to the parameters tested
ii) The test report shall not be reproduced except in full, without written approval of laboratory

Recognized by Pollution Control Board, Assam; MSME & An ISO 9001:2015 & OHSAS 18001:2007 Certified Firm

D.G SET NOISE LEVEL MEASUREMENT REPORT

Rep.No. 171004_13010037_06A_039/64

Date: 04/10/2017

Name & Address:

M/s. Subham Buildwell
R.G. Baruah Road,
Vill: Japorigog, Mouza: Beltola,
Dist: Kamrup, Guwahati, Assam.

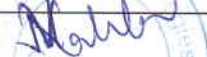



SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE	NOISE LEVEL in dB(A)Leq
i)	29/09/17	160 KVA - DG Set	70.0

Remarks: Noise level is carried out at a distance 1metre from the enclosure surface.

DG Set Noise Standards:

Noise limit viz. 75 dB(A) at 1m distance.

ENVISION ENVIRO TECHNOLOGIES NORTH EAST, GUWAHATI

1	PREPARED BY (OFFICE EXECUTIVE)	
2	SAMPLE COLLECTION & ANALYSIS BY (SR. ENVIRONMENT CHEMIST)	
3	CROSS-CHECKED BY (ENVIRONMENT EXECUTIVE)	
4	Released by (Quality control Manager)	

Note: i) The results relate only to the parameters tested
ii) The test report shall not be reproduced except in full, without written approval of laboratory

Recognized by Pollution Control Board, Assam; MSME & An ISO 9001:2015 & OHSAS 18001:2007 Certified Firm

STACK ANALYSIS REPORT

Rep.No. 171004_13010037_02_041 ⁰⁴

Date: 04/10/2017

Name & Address:

M/s. Subham Buildwell
R.G. Baruah Road,
Vill: Japorigog, Mouza: Beltola,
Dist: Kamrup, Guwahati, Assam.

SL. NO.	DATE OF SAMPLING	STACK DESCRIPTION	PARAMETERS	REMARKS
			Particulate Matter (g/kwhr)	
i)	29/09/17	Stack attached to DG set - 160 KVA	0.13	-Data is within the permissible limit

Emission Standards for Diesel Engine for generator set :

Engine Power(P)	Parameter	Standards
75KW < P ≤ 800KW	Particulate Matter	0.2 g/kwhr

Envision Enviro Technologies North East, Guwahati

1	Prepared by (Office Executive)	
2	Sample collection & analysis by (Sr. Environment Chemist)	
3	Cross-checked by (Environment Executive)	
4	Released by (Quality control Manager)	

Note: i) The results relate only to the parameters tested
ii) The test report shall not be reproduced except in full, without written approval of laboratory