

# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha  
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF (Wildlife) & CWLW, Odisha  
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)  
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report no. - CEMC/AIWTDP/170918/A1

Issued Date-17.09.2018

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018A1
Nature of Sampling	Ambient Air Sample
Sampling Location	North Guwahati
Stations Details	Ghats/Commercial Zone- Station-1 Sensitive Zone- Station-2 Approaching Roads- Station-3
Sampling By	Mr. B K Payne
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter, Benzene sampler
Date of Sampling	05.08.2018
Date of Receiving	07.09.2018
Date of Analysis	07.09.2018 to 17.09.2018

## ANALYSIS RESULT

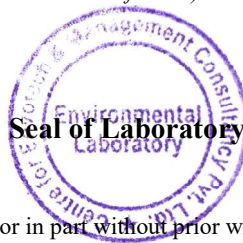
Sl. No.	Parameters	Station-1	Station-2	Station-3	NAAQ Standard	Methods of Analysis
1	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	69.6	52.9	63.4	100	IS: 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	38.1	30.2	33.5	60	Gravimetric Method as per CPCB method
3	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	8.6	5.4	7.6	80	IS: 5182 (Part-2)
4	Nitrogen Oxides (NO <sub>x</sub> ) µg/m <sup>3</sup>	12.1	9.9	10.6	80	IS: 5182 (Part-6)
5	Carbon Monoxide (CO) mg/m <sup>3</sup>	0.21	<0.1	0.19	4	IS: 5182 (Part-10)
6	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	<10	<10	<10	100	IS: 5182 (Part-9)
7	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	<20	<20	<20	400	Indophenol Blue Method followed by CPCB
8	Lead (Pb) µg/m <sup>3</sup>	<0.06	<0.06	<0.06	1.0	IS: 5182 (Part-22)
9	Nickel (Ni) ng/m <sup>3</sup>	<0.6	<0.6	<0.6	20	As per CPCB method followed by AAS
10	Arsenic (As) ng/m <sup>3</sup>	<0.44	<0.44	<0.44	6	As per CPCB method followed by AAS
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	<1	<1	<1	5	IS: 5182 (Part-11)
12	Benzo(a)Pyrene (BaP) ng/m <sup>3</sup>	<1	<1	<1	1	IS: 5182 (Part-12)

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

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Notes:

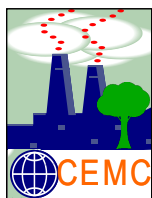
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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,  
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Report no. - CEMC/AIWTDP/170918/A2

Issued Date-17.09.2018

Client Name & Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018A1
Nature of Sampling	Ambient Air Sample
Sampling Location	North Guwahati
Stations Details	Ghats/Commercial Zone- Station-1 Sensitive Zone- Station-2 Approaching Roads- Station-3
Sampling By	Mr. B K Payne
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter, Benzene sampler
Date of Sampling	09.08.2018
Date of Receiving	07.09.2018
Date of Analysis	07.09.2018 to 17.09.2018

## ANALYSIS RESULT

Sl. No.	Parameters	Station-1	Station-2	Station-3	NAAQ Standard	Methods of Analysis
1	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	67.9	51.6	62.4	100	IS: 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	39.6	31.5	34.8	60	Gravimetric Method as per CPCB method
3	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	8.9	5.7	7.9	80	IS: 5182 (Part-2)
4	Nitrogen Oxides (NO <sub>x</sub> ) µg/m <sup>3</sup>	12.8	8.6	11.4	80	IS: 5182 (Part-6)
5	Carbon Monoxide (CO) mg/m <sup>3</sup>	0.22	<0.1	0.17	4	IS: 5182 (Part-10)
6	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	<10	<10	<10	100	IS: 5182 (Part-9)
7	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	<20	<20	<20	400	Indophenol Blue Method followed by CPCB
8	Lead (Pb) µg/m <sup>3</sup>	<0.06	<0.06	<0.06	1.0	IS: 5182 (Part-22)
9	Nickel (Ni) ng/m <sup>3</sup>	<0.6	<0.6	<0.6	20	As per CPCB method followed by AAS
10	Arsenic (As) ng/m <sup>3</sup>	<0.44	<0.44	<0.44	6	As per CPCB method followed by AAS
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	<1	<1	<1	5	IS: 5182 (Part-11)
12	Benzo(a)Pyrene (BaP) ng/m <sup>3</sup>	<1	<1	<1	1	IS: 5182 (Part-12)

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

  
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Notes:

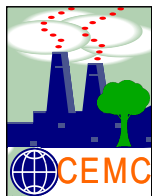
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Report no. - CEMC/AIWTDP/170918/A3

Issued Date-17.09.2018

Client Name & Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018A3
Nature of Sampling	Ambient Air Sample
Sampling Location	Lachit Ghat
Stations Details	Ghats/Commercial Zone- Station-1 Sensitive Zone- Station-2 Approaching Roads- Station-3
Sampling By	Mr. B K Payne
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter, Benzene sampler
Date of Sampling	06.08.2018
Date of Receiving	07.09.2018
Date of Analysis	07.09.2018 to 17.09.2018

## ANALYSIS RESULT

Sl. No.	Parameters	Station-1	Station-2	Station-3	NAAQ Standard	Methods of Analysis
1	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	70.3	53.9	65.2	100	IS: 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	40.2	31.5	35.6	60	Gravimetric Method as per CPCB method
3	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	10.6	7.5	9.6	80	IS: 5182 (Part-2)
4	Nitrogen Oxides (NO <sub>x</sub> ) µg/m <sup>3</sup>	13.9	9.3	11.4	80	IS: 5182 (Part-6)
5	Carbon Monoxide (CO) mg/m <sup>3</sup>	0.25	<0.1	0.15	4	IS: 5182 (Part-10)
6	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	<10	<10	<10	100	IS: 5182 (Part-9)
7	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	<20	<20	<20	400	Indophenol Blue Method followed by CPCB
8	Lead (Pb) µg/m <sup>3</sup>	<0.06	<0.06	<0.06	1.0	IS: 5182 (Part-22)
9	Nickel (Ni) ng/m <sup>3</sup>	<0.6	<0.6	<0.6	20	As per CPCB method followed by AAS
10	Arsenic (As) ng/m <sup>3</sup>	<0.44	<0.44	<0.44	6	As per CPCB method followed by AAS
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	<1	<1	<1	5	IS: 5182 (Part-11)
12	Benzo(a)Pyrene (BaP) ng/m <sup>3</sup>	<1	<1	<1	1	IS: 5182 (Part-12)

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

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Notes:

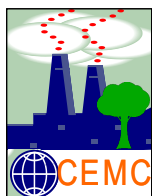
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Report no. - CEMC/AIWTDP/170918/A4

Issued Date-17.09.2018

Client Name & Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Lachit Ghat
Stations Details	Ghats/Commercial Zone- Station-1 Sensitive Zone- Station-2 Approaching Roads- Station-3
Sampling By	Mr. B K Payne
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter, Benzene sampler
Date of Sampling	10.08.2018
Date of Receiving	07.09.2018
Date of Analysis	07.09.2018 to 17.09.2018

## ANALYSIS RESULT

Sl. No.	Parameters	Station-1	Station-2	Station-3	NAAQ Standard	Methods of Analysis
1	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	71.2	51.6	64.2	100	IS: 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	42.4	30.9	34.9	60	Gravimetric Method as per CPCB method
3	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	11.6	6.6	9.0	80	IS: 5182 (Part-2)
4	Nitrogen Oxides (NO <sub>x</sub> ) µg/m <sup>3</sup>	13.1	9.6	11.2	80	IS: 5182 (Part-6)
5	Carbon Monoxide (CO) mg/m <sup>3</sup>	0.25	<0.1	0.15	4	IS: 5182 (Part-10)
6	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	<10	<10	<10	100	IS: 5182 (Part-9)
7	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	<20	<20	<20	400	Indophenol Blue Method followed by CPCB
8	Lead (Pb) µg/m <sup>3</sup>	<0.06	<0.06	<0.06	1.0	IS: 5182 (Part-22)
9	Nickel (Ni) ng/m <sup>3</sup>	<0.6	<0.6	<0.6	20	As per CPCB method followed by AAS
10	Arsenic (As) ng/m <sup>3</sup>	<0.44	<0.44	<0.44	6	As per CPCB method followed by AAS
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	<1	<1	<1	5	IS: 5182 (Part-11)
12	Benzo(a)Pyrene (BaP) ng/m <sup>3</sup>	<1	<1	<1	1	IS: 5182 (Part-12)

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Notes:

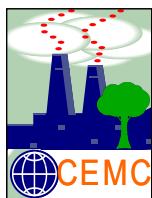
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Report no. - CEMC/AIWTDP/170918/A5

Issued Date-17.09.2018

Client Name & Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Neamati Ghat
Stations Details	Ghats/Commercial Zone- Station-1 Sensitive Zone- Station-2 Approaching Roads- Station-3
Sampling By	Mr. B K Payne
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter, Benzene sampler
Date of Sampling	28.08.2018
Date of Receiving	07.09.2018
Date of Analysis	07.09.2018 to 17.09.2018

## ANALYSIS RESULT

Sl. No.	Parameters	Station-1	Station-2	Station-3	NAAQ Standard	Methods of Analysis
1	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	66.6	50.3	60.9	100	IS: 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	38.9	28.6	34.1	60	Gravimetric Method as per CPCB method
3	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	12.6	8.7	10.6	80	IS: 5182 (Part-2)
4	Nitrogen Oxides (NO <sub>x</sub> ) µg/m <sup>3</sup>	15.2	12.9	14.4	80	IS: 5182 (Part-6)
5	Carbon Monoxide (CO) mg/m <sup>3</sup>	0.19	<0.1	0.15	4	IS: 5182 (Part-10)
6	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	<10	<10	<10	100	IS: 5182 (Part-9)
7	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	<20	<20	<20	400	Indophenol Blue Method followed by CPCB
8	Lead (Pb) µg/m <sup>3</sup>	<0.06	<0.06	<0.06	1.0	IS: 5182 (Part-22)
9	Nickel (Ni) ng/m <sup>3</sup>	<0.6	<0.6	<0.6	20	As per CPCB method followed by AAS
10	Arsenic (As) ng/m <sup>3</sup>	<0.44	<0.44	<0.44	6	As per CPCB method followed by AAS
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	<1	<1	<1	5	IS: 5182 (Part-11)
12	Benzo(a)Pyrene (BaP) ng/m <sup>3</sup>	<1	<1	<1	1	IS: 5182 (Part-12)

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

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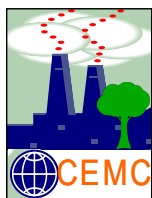


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Report no. - CEMC/AIWTDP/170918/A6

Issued Date-17.09.2018

Client Name & Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018A6
Nature of Sampling	Ambient Air Sample
Sampling Location	Neamati Ghat
Stations Details	Ghats/Commercial Zone- Station-1 Sensitive Zone- Station-2 Approaching Roads- Station-3
Sampling By	Mr. B K Payne
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter, Benzene sampler
Date of Sampling	01.09.2018
Date of Receiving	07.09.2018
Date of Analysis	07.09.2018 to 17.09.2018

## ANALYSIS RESULT

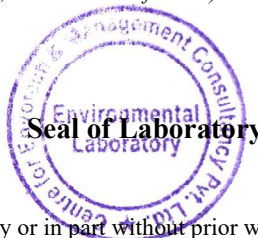
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2	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	37.5	26.9	32.5	60	Gravimetric Method as per CPCB method
3	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	12.8	8.1	10.2	80	IS: 5182 (Part-2)
4	Nitrogen Oxides (NO <sub>x</sub> ) µg/m <sup>3</sup>	14.8	11.6	13.5	80	IS: 5182 (Part-6)
5	Carbon Monoxide (CO) mg/m <sup>3</sup>	0.21	<0.1	0.17	4	IS: 5182 (Part-10)
6	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	<10	<10	<10	100	IS: 5182 (Part-9)
7	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	<20	<20	<20	400	Indophenol Blue Method followed by CPCB
8	Lead (Pb) µg/m <sup>3</sup>	<0.06	<0.06	<0.06	1.0	IS: 5182 (Part-22)
9	Nickel (Ni) ng/m <sup>3</sup>	<0.6	<0.6	<0.6	20	As per CPCB method followed by AAS
10	Arsenic (As) ng/m <sup>3</sup>	<0.44	<0.44	<0.44	6	As per CPCB method followed by AAS
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	<1	<1	<1	5	IS: 5182 (Part-11)
12	Benzo(a)Pyrene (BaP) ng/m <sup>3</sup>	<1	<1	<1	1	IS: 5182 (Part-12)

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

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Notes:

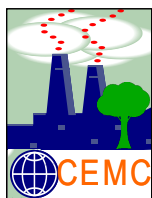
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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report no. - CEMC/AIWTDP/170918/A7

Issued Date-17.09.2018

Client Name & Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018A7
Nature of Sampling	Ambient Air Sample
Sampling Location	Kamalabari Ghat
Stations Details	Ghats/Commercial Zone- Station-1 Sensitive Zone- Station-2 Approaching Roads- Station-3
Sampling By	Mr. B K Payne
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter, Benzene sampler
Date of Sampling	29.08.2018
Date of Receiving	07.09.2018
Date of Analysis	07.09.2018 to 17.09.2018

## ANALYSIS RESULT

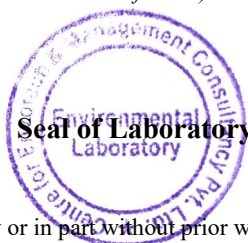
Sl. No.	Parameters	Station-1	Station-2	Station-3	NAAQ Standard	Methods of Analysis
1	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	62.6	51.8	59.3	100	IS: 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	39.2	28.6	30.4	60	Gravimetric Method as per CPCB method
3	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	12.9	5.1	11.5	80	IS: 5182 (Part-2)
4	Nitrogen Oxides (NO <sub>x</sub> ) µg/m <sup>3</sup>	16.6	9.6	14.4	80	IS: 5182 (Part-6)
5	Carbon Monoxide (CO) mg/m <sup>3</sup>	0.20	0.1	0.15	4	IS: 5182 (Part-10)
6	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	<10	<10	<10	100	IS: 5182 (Part-9)
7	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	<20	<20	<20	400	Indophenol Blue Method followed by CPCB
8	Lead (Pb) µg/m <sup>3</sup>	<0.06	<0.06	<0.06	1.0	IS: 5182 (Part-22)
9	Nickel (Ni) ng/m <sup>3</sup>	<0.6	<0.6	<0.6	20	As per CPCB method followed by AAS
10	Arsenic (As) ng/m <sup>3</sup>	<0.44	<0.44	<0.44	6	As per CPCB method followed by AAS
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	<1	<1	<1	5	IS: 5182 (Part-11)
12	Benzo(a)Pyrene (BaP) ng/m <sup>3</sup>	<1	<1	<1	1	IS: 5182 (Part-12)

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

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Notes:

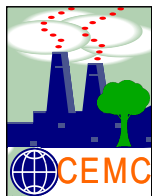
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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report no. - CEMC/AIWTDP/170918/A8

Issued Date-17.09.2018

Client Name & Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018A8
Nature of Sampling	Ambient Air Sample
Sampling Location	Kamalabari Ghat
Stations Details	Ghats/Commercial Zone- Station-1 Sensitive Zone- Station-2 Approaching Roads- Station-3
Sampling By	Mr. B K Payne
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter, Benzene sampler
Date of Sampling	02.09.2018
Date of Receiving	07.09.2018
Date of Analysis	07.09.2018 to 17.09.2018

## ANALYSIS RESULT

Sl. No.	Parameters	Station-1	Station-2	Station-3	NAAQ Standard	Methods of Analysis
1	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	63.8	52.4	56.1	100	IS: 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	39.6	29.4	31.4	60	Gravimetric Method as per CPCB method
3	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	13.1	5.8	12.1	80	IS: 5182 (Part-2)
4	Nitrogen Oxides (NO <sub>x</sub> ) µg/m <sup>3</sup>	16.9	10.1	15.3	80	IS: 5182 (Part-6)
5	Carbon Monoxide (CO) mg/m <sup>3</sup>	0.19	0.11	0.19	4	IS: 5182 (Part-10)
6	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	<10	<10	<10	100	IS: 5182 (Part-9)
7	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	<20	<20	<20	400	Indophenol Blue Method followed by CPCB
8	Lead (Pb) µg/m <sup>3</sup>	<0.06	<0.06	<0.06	1.0	IS: 5182 (Part-22)
9	Nickel (Ni) ng/m <sup>3</sup>	<0.6	<0.6	<0.6	20	As per CPCB method followed by AAS
10	Arsenic (As) ng/m <sup>3</sup>	<0.44	<0.44	<0.44	6	As per CPCB method followed by AAS
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	<1	<1	<1	5	IS: 5182 (Part-11)
12	Benzo(a)Pyrene (BaP) ng/m <sup>3</sup>	<1	<1	<1	1	IS: 5182 (Part-12)

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

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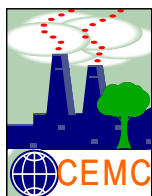


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Report no. - CEMC/AIWTDP/170918/A9

Issued Date-17.09.2018

Client Name & Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018A9
Nature of Sampling	Ambient Air Sample
Sampling Location	Aphlamukh Ghat
Stations Details	Ghats/Commercial Zone- Station-1 Sensitive Zone- Station-2 Approaching Roads- Station-3
Sampling By	Mr. B K Payne
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter, Benzene sampler
Date of Sampling	30.08.2018
Date of Receiving	07.09.2018
Date of Analysis	07.09.2018 to 17.09.2018

## ANALYSIS RESULT

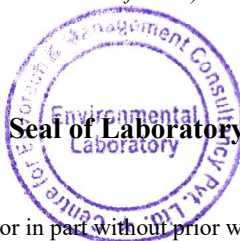
Sl. No.	Parameters	Station-1	Station-2	Station-3	NAAQ Standard	Methods of Analysis
1	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	64.9	51.4	58.7	100	IS: 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	36.1	28.5	32.6	60	Gravimetric Method as per CPCB method
3	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	11.9	6.6	10.4	80	IS: 5182 (Part-2)
4	Nitrogen Oxides (NO <sub>x</sub> ) µg/m <sup>3</sup>	15.8	10.2	14.7	80	IS: 5182 (Part-6)
5	Carbon Monoxide (CO) mg/m <sup>3</sup>	0.19	<0.1	0.17	4	IS: 5182 (Part-10)
6	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	<10	<10	<10	100	IS: 5182 (Part-9)
7	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	<20	<20	<20	400	Indophenol Blue Method followed by CPCB
8	Lead (Pb) µg/m <sup>3</sup>	<0.06	<0.06	<0.06	1.0	IS: 5182 (Part-22)
9	Nickel (Ni) ng/m <sup>3</sup>	<0.6	<0.6	<0.6	20	As per CPCB method followed by AAS
10	Arsenic (As) ng/m <sup>3</sup>	<0.44	<0.44	<0.44	6	As per CPCB method followed by AAS
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	<1	<1	<1	5	IS: 5182 (Part-11)
12	Benzo(a)Pyrene (BaP) ng/m <sup>3</sup>	<1	<1	<1	1	IS: 5182 (Part-12)

\*NAAQ (National Ambient Air Quality Standard as per 18<sup>th</sup> Nov, 2009 Gatt. Notification)

  
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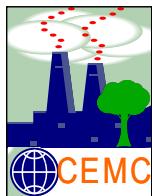
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Report no. - CEMC/AIWTDP/170918/A10

Issued Date-17.09.2018

Client Name & Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018A10
Nature of Sampling	Ambient Air Sample
Sampling Location	Aphlamukh Ghat
Stations Details	Ghats/Commercial Zone- Station-1 Sensitive Zone- Station-2 Approaching Roads- Station-3
Sampling By	Mr. B K Payne
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, CO Meter, Benzene sampler
Date of Sampling	03.09.2018
Date of Receiving	07.09.2018
Date of Analysis	07.09.2018 to 17.09.2018

## ANALYSIS RESULT

Sl. No.	Parameters	Station-1	Station-2	Station-3	NAAQ Standard	Methods of Analysis
1	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	65.6	52.7	59.1	100	IS: 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	36.9	29.4	33.1	60	Gravimetric Method as per CPCB method
3	Sulphur Dioxide (SO <sub>2</sub> ) µg/m <sup>3</sup>	12.2	6.9	10.8	80	IS: 5182 (Part-2)
4	Nitrogen Oxides (NO <sub>x</sub> ) µg/m <sup>3</sup>	14.8	9.5	13.2	80	IS: 5182 (Part-6)
5	Carbon Monoxide (CO) mg/m <sup>3</sup>	0.17	0.1	0.15	4	IS: 5182 (Part-10)
6	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	<10	<10	<10	100	IS: 5182 (Part-9)
7	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	<20	<20	<20	400	Indophenol Blue Method followed by CPCB
8	Lead (Pb) µg/m <sup>3</sup>	<0.06	<0.06	<0.06	1.0	IS: 5182 (Part-22)
9	Nickel (Ni) ng/m <sup>3</sup>	<0.6	<0.6	<0.6	20	As per CPCB method followed by AAS
10	Arsenic (As) ng/m <sup>3</sup>	<0.44	<0.44	<0.44	6	As per CPCB method followed by AAS
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	<1	<1	<1	5	IS: 5182 (Part-11)
12	Benzo(a)Pyrene (BaP) ng/m <sup>3</sup>	<1	<1	<1	1	IS: 5182 (Part-12)

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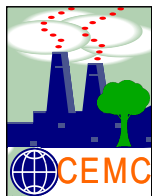


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Report no. - CEMC/AIWTDP/170918/N1

Issued Date-17.09.2018

## NOISE MONITORING TEST REPORT

Client Name and Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018N1
Nature of Sampling	Noise Sampling
Instrument used	Sound Level Meter
Sampling Locations	Lachit Ghat
Sampling By	Mr. B K Payne
Sampling Date	08.08.2018

## ANALYSIS RESULT

Sl. No.	Locations	Day time dB(A)	Night time dB(A)	Avg. dB(A)
1	Ghats/Commercial Zones	65.2	40.8	54.2
2	Sensitive Zones	68.7	41.9	52.6
3	Approaching Roads	69.5	44.8	57.1

## NOISE LEVEL STANDARD

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

  
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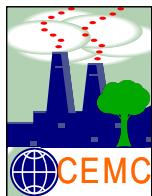


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Report no. - CEMC/AIWTDP/170918/N2

Issued Date-17.09.2018

## NOISE MONITORING TEST REPORT

Client Name and Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018N2
Nature of Sampling	Noise Sampling
Instrument used	Sound Level Meter
Sampling Locations	North Guwahati
Sampling By	Mr. B K Payne
Sampling Date	06.08.2018

## ANALYSIS RESULT

Sl. No.	Locations	Day time dB(A)	Night time dB(A)	Avg. dB(A)
1	Ghats/Commercial Zones	64.2	46.4	56.9
2	Sensitive Zones	62.4	44.6	48.2
3	Approaching Roads	66.1	45.7	49.8

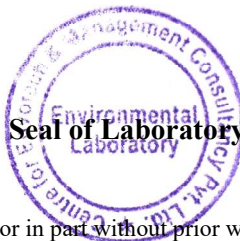
## NOISE LEVEL STANDARD

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

  
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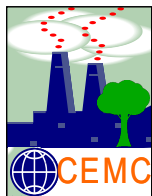


Seal of Laboratory

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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E-mail- ccmc\_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in, Landline: 0674-2360344.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,  
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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)  
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report no. - CEMC/AIWTDP/170918/N3

Issued Date-17.09.2018

## NOISE MONITORING TEST REPORT

Client Name and Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018N3
Nature of Sampling	Noise Sampling
Instrument used	Sound Level Meter
Sampling Locations	Neamati Ghat
Sampling By	Mr. B K Payne
Sampling Date	28.08.2018

## ANALYSIS RESULT

Sl. No.	Locations	Day time dB(A)	Night time dB(A)	Avg. dB(A)
1	Ghats/Commercial Zones	60.2	41.2	51.2
2	Sensitive Zones	62.9	42.6	53.6
3	Approaching Roads	61.1	43.5	55.1

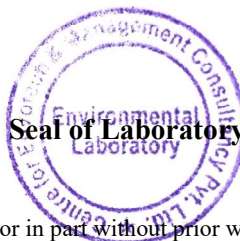
## NOISE LEVEL STANDARD

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

  
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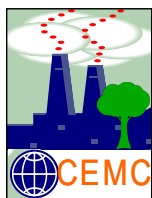
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Report no. - CEMC/AIWTDP/170918/N4

Issued Date-17.09.2018

## NOISE MONITORING TEST REPORT

Client Name and Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018N4
Nature of Sampling	Noise Sampling
Instrument used	Sound Level Meter
Sampling Locations	Kamalabari Ghat
Sampling By	Mr. B K Payne
Sampling Date	30.08.2018

## ANALYSIS RESULT

Sl. No.	Locations	Day time dB(A)	Night time dB(A)	Avg. dB(A)
1	Ghats/Commercial Zones	64.2	47.9	55.2
2	Sensitive Zones	62.4	45.1	47.3
3	Approaching Roads	64.0	46.3	48.5

## NOISE LEVEL STANDARD

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

  
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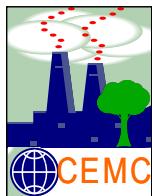


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Report no. - CEMC/AIWTDP/170918/N5

Issued Date-17.09.2018

## NOISE MONITORING TEST REPORT

Client Name and Address	M/s. Assam Inland Water Transport Development Project, Guwahati
Reference No.	CEMC-17092018N5
Nature of Sampling	Noise Sampling
Instrument used	Sound Level Meter
Sampling Locations	Aphlamukh Ghat
Sampling By	Mr. B K Payne
Sampling Date	02.09.2018

## ANALYSIS RESULT

Sl. No.	Locations	Day time dB(A)	Night time dB(A)	Avg. dB(A)
1	Ghats/Commercial Zones	61.2	45.6	52.9
2	Sensitive Zones	62.8	43.5	48.1
3	Approaching Roads	60.9	46.9	46.5

## NOISE LEVEL STANDARD

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

  
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