



Lab : Survey No. 93/A, Conformity Hissa No.2 G.V.Brothers Bldg., Bata Compound, Khopat, Near Flower Valley, Thane (West) - 400 601, Maharashtra, India.
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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3473/05-2021
Unit: "Patalaganga" ISSUE DATE : 27/05/2021
Village: Lohop, Talvali, Patalganga, Tal.: Khalapur, YOUR REF. : 1300022569
Dist.: Raigad-410207, Maharashtra, India REF. DATE : 27/04/2021

SAMPLE PARTICULARS :
Sampling Plan Ref. No.: 28-05/2021
Sample Registration Date : 21/05/2021
Date of Sampling : 19/05/2021 to 20/05/2021
Time of Sampling : 11:15 Hrs. to 11:15Hrs.
Analysis Starting Date : 21/05/2021
Analysis Completion Date : 28/05/2021
Sample Lab Code : UT/ELS/263/05-2021
Ambient Air Temperature : 23.8°C to 34.1°C

AMBIENT AIR QUALITY MONITORING
Location Code : 01
Sample Location : Tank Farm area (10 Meter off to East Direction from Greenhouse)
Co-ordinates: N 18°50'53.98"; E 73°12'45.35"
Collected By : ULTRA TECH
Height of Sampler : 1.0 Meter
Sampling Duration : 24 Hours
Relative Humidity : 50.1% to 69.8%

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	8	µg/m ³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	28	µg/m ³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method 10-2.1	86	µg/m ³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	24	µg/m ³
5.	Lead (Pb)	IS 5182 (Part 22) : 2004	BDL[DL=0.01]	µg/m ³
6.	Carbon Monoxide (CO) [†]	IS 5182 (Part 10): 1999	1.3	mg/m ³
7.	Ammonia (NH ₃) [‡]	ISC Method 401	34	µg/m ³
8.	Arsenic (As)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL[DL=2]	ng/m ³

†: Sampling Period 1 Hr. E: Sampling Period 2 Hrs.

BDL: Below Detection Limit DL: Detection Limit

Opinions / Interpretations: National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-I for your reference.
(Turnover to find Annexure)

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model- PEM-RDS 8NL; Sr. No. 3613	Valid up to -01/06/2021
	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10µ; Sr. No. 18513	Valid up to - 02/03/2022

Note: 1. This test report refers only to the sample tested.
2. Monitoring area coming under Industrial areas and observed values are relevant to sample collected only.
3. This test report may not be reproduced in part, without the permission of this laboratory.
4. Any correction invalidates this test report.
5. Weather Sunny & Clear during Sampling period. Environment was dusty.
6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3474/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)

Lab : Survey No. 93/A, Conformity Hissa No.2 G.V.Brothers Bldg., Bata Compound, Khopat, Near Flower Valley, Thane (West) - 400 601, Maharashtra, India,
Tele : +91 22 2547 49 07 / +91 22 2547 62 17 Email : lab@ultratech.in Visit us at : www.ultratech.in**TEST REPORT****ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.****Unit: "Patalaganga"****Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,****Dist.: Raigad-410207, Maharashtra, India****REPORT NO. : UT/ELS/REPORT/3474/05-2021****ISSUE DATE : 27/05/2021****YOUR REF. : 1300022569****REF. DATE : 27/04/2021****SAMPLE PARTICULARS :**Sampling Plan Ref. No.: 28-05/2021
Sample Registration Date : 21/05/2021
Date of Sampling : 19/05/2021 to 20/05/2021
Time of Sampling : 11:15 Hrs. to 11:15 Hrs.
Analysis Starting Date : 21/05/2021
Analysis Completion Date : 28/05/2021
Sample Lab Code : UT/ELS/263/05-2021
Ambient Air Temperature : 23.8°C to 34.1°C**AMBIENT AIR QUALITY MONITORING**Location Code : 01
Sample Location : Tank Farm area (10 Meter off towards South Direction)
Co-ordinates: N 18°50'53.98"; E 73°12'45.35"
Collected By : ULTRA TECH
Height of Sampler : 1.0 Meter
Sampling Duration : 24 Hours
Relative Humidity : 50.1% to 69.8 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Ozone (O ₃) [∞]	IS 5182 (Part 09) : 1974	BDL [DL=10]	µg/m ³
2.	Benzene (C ₆ H ₆) [∞]	IS 5182 (Part 11) : 2006	BDL [DL=1]	µg/m ³
3.	Benzo(α)Pyrene (BaP) - Particulate Phase	IS 5182 (Part 12) : 2004	BDL [DL=0.5]	ng/m ³
4.	Nickel (Ni)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL [DL=1]	ng/m ³

∞: Sampling Period 8 Hrs.

BDL: Below Detection Limit

DL: Detection Limit

Opinions / Interpretations: National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-II for your reference.
(Turnover to find Annexure)

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model- PEM-RDSBNL; Sr. No. 3613	Valid up to - 01/06/2021
	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10µ; Sr. No. 18513	Valid up to - 02/03/2022

Note: 1. This test report refers only to the sample tested.
2. Monitoring area coming under Industrial areas and observed values are relevant to sample collected only.
3. This test report may not be reproduced in part, without the permission of this laboratory.
4. Any correction invalidates this test report.
5. Weather was Sunny & Clear during Sampling period.
6. Parameter is tested are not covered under NABL scope.
7. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3473/05-2021 Dated 27/05/2021 for final conclusion.**- END OF REPORT -**

For ULTRA TECH,

(Authorized Signatory)

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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3475/05-2021
 Unit: "Patalaganga" ISSUE DATE : 27/05/2021
 Village: Lohop, Talvali, Patalganga, Tal.: Khalapur, YOUR REF. : 1300022569
 Dist.: Raigad-410207, Maharashtra, India REF. DATE : 27/04/2021

SAMPLE PARTICULARS :

Sampling Plan Ref. No.: : 28-05/2021
 Sample Registration Date : 21/05/2021
 Date of Sampling : 19/05/2021 to 20/05/2021
 Time of Sampling : 11:30 Hrs. to 11:30 Hrs.
 Analysis Starting Date : 21/05/2021
 Analysis Completion Date : 28/05/2021
 Sample Lab Code : UT/ELS/264/05-2021
 Ambient Air Temperature : 23.4°C to 34.0°C

AMBIENT AIR QUALITY MONITORING

Location Code : 02
 Sample Location : Switch Yard Area (05 Meter off to South Direction on Steel Platform)
 Co-ordinates: N 18°51'11.18" E 73°12'48.28"
 Collected By : ULTRA TECH
 Height of Sampler : 1.0 Meter
 Sampling Duration : 24 Hours
 Relative Humidity : 49.3% to 69.1 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	7	µg/m ³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	21	µg/m ³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method IO-2.1	79	µg/m ³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	24	µg/m ³
5.	Lead (Pb)	IS 5182 (Part 22) : 2004	BDL[DL=0.01]	µg/m ³
6.	Carbon Monoxide (CO) [†]	IS 5182 (Part 10): 1999	1.2	mg/m ³
7.	Ammonia (NH ₃) [‡]	ISC Method 401	38	µg/m ³
8.	Arsenic (As)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL[DL=2]	µg/m ³
†: Sampling Period 1 Hr.		‡: Sampling Period 2 Hrs.		
BDL: Below Detection Limit		DL: Detection Limit		

Opinions / Interpretations: National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-I for your reference.
 (Turnover to find Annexure)

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model- PEM-RDS BNL; Sr. No. 914	Valid up to - 28/02/2022
	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10µ; Sr. No. 19013	Valid up to - 06/10/2021

Note: 1. This test report refers only to the sample tested.
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 4. Any correction invalidates this test report.
 5. Weather Sunny & Clear during Sampling period. Environment was dusty.
 6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3476/05-2021 Dated 27/05/2021 for final conclusion.

— END OF REPORT —



For ULTRA TECH,

(Authorized Signatory)

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TEST REPORT**ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.****Unit: "Patalaganga"****Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,****Dist.: Raigad-410207, Maharashtra, India****REPORT NO. : UT/ELS/REPORT/3476/05-2021****ISSUE DATE : 27/05/2021****YOUR REF. : 1300022569****REF. DATE : 27/04/2021****SAMPLE PARTICULARS :****Sampling Plan Ref. No.:** 28-05/2021**Sample Registration Date** : 21/05/2021**Date of Sampling** : 19/05/2021 to 20/05/2021**Time of Sampling** : 11:30 Hrs. to 11:30 Hrs.**Analysis Starting Date** : 21/05/2021**Analysis Completion Date** : 28/05/2021**Sample Lab Code** : UT/ELS/264/05-2021**Ambient Air Temperature** : 23.4°C to 34.0°C**AMBIENT AIR QUALITY MONITORING****Location Code** : 02**Sample Location** : Switch Yard Area (OS Meter off to South Direction on Steel Platform)
Co-ordinates: N 18°51'11.18"; E 73°12'48.28"**Collected By** : ULTRA TECH**Height of Sampler** : 1.0 Meter**Sampling Duration** : 24 Hours**Relative Humidity** : 49.3% to 69.1 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Ozone (O ₃) ^{oo}	IS 5182 (Part 09) : 1974	BDL [DL=1.0]	µg/m ³
2.	Benzene (C ₆ H ₆) ^{oo}	IS 5182 (Part 11) : 2006	BDL [DL=1]	µg/m ³
3.	Benzo(a)Pyrene (BaP) - Particulate Phase	IS 5182 (Part 12) : 2004	BDL [DL=0.5]	ng/m ³
4.	Nickel (Ni)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL [DL=1]	ng/m ³

oo: Sampling Period 8 Hrs.
BDL: Below Detection Limit

DL: Detection Limit

Opinions / Interpretations: National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-I for your reference.
(Turnover to find Annexure)

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model- PEM-RDS 8NL; Sr. No. 914	Valid up to - 28/02/2022
	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10µ; Sr. No. 19013	Valid up to - 06/10/2021

- Note:**
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 3. This test report may not be reproduced in part, without the permission of this laboratory.
 4. Any correction invalidates this test report.
 5. Weather was Sunny & Clear during Sampling period.
 6. Parameter is tested are not covered under NABL scope.
 7. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3475/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3477/05-2021
Unit: "Patalaganga" ISSUE DATE : 27/05/2021
Village: Lohop, Talvali, Patalganga, Tal.: Khalapur, YOUR REF. : 1300022564
Dist.: Raigad-410207, Maharashtra, India REF. DATE : 27/04/2021

SAMPLE PARTICULARS :

Sampling Plan Ref. No.: : 28-05/2021
Sample Registration Date : 21/05/2021
Date of Sampling : 19/05/2021 to 20/05/2021
Time of Sampling : 11:50 Hrs. to 11:50 Hrs.
Analysis Starting Date : 21/05/2021
Analysis Completion Date : 28/05/2021
Sample Lab Code : UT/ELS/265/05-2021
Ambient Air Temperature : 23.6°C to 34.4°C

AMBIENT AIR QUALITY MONITORING

Location Code : 03
Sample Location : Near Dandwadi, (10 Meter off to North-East Direction towards DM Room)
Co-ordinates: N 18°51'02.90"; E 73°12'51.73"
Collected By : ULTRA TECH
Height of Sampler : 1.0 Meter
Sampling Duration : 24 Hours
Relative Humidity : 49.9% to 69.1 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	10	µg/m ³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	23	µg/m ³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method IO-2.1	91	µg/m ³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	33	µg/m ³
5.	Lead (Pb)	IS 5182 (Part 22) : 2004	BDL[DL=0.01]	µg/m ³
6.	Carbon Monoxide (CO) [†]	IS 5182 (Part 10): 1999	1.3	mg/m ³
7.	Ammonia (NH ₃) [‡]	ISC Method 401	43	µg/m ³
8.	Arsenic (As)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL[DL=2]	ng/m ³
†: Sampling Period 1 Hr.		‡: Sampling Period 2 Hrs.		
BDL: Below Detection Limit		DL: Detection Limit		

Opinions / Interpretations: National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-I for your reference.
(Turnover to find Annexure)

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model- PEM-RDS 9; Sr. No. 1118	Valid upto - 21/01/2022
	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10µ; Sr. No. 3119	Valid upto - 29/11/2021

Note: 1. This test report refers only to the sample tested.
2. Monitoring area coming under Industrial areas and observed values are relevant to sample collected only.
3. This test report may not be reproduced in part, without the permission of this laboratory.
4. Any correction invalidates this test report.
5. Weather Sunny & Clear during Sampling period. Environment was dusty.
6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3478/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)

Lab : Survey No. 93/A, Conformity Hissa No.2 G.V.Brothers Bldg., Bata Compound, Khopat, Near Flower Valley, Thane (West) - 400 601, Maharashtra, India.
Tele : +91 22 2547 49 07 / +91 22 2547 62 17 Email : lab@ultratech.in Visit us at : www.ultratech.in**TEST REPORT****ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.****Unit: "Patalaganga"****Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,****Dist.: Raigad-410207, Maharashtra, India****REPORT NO. : UT/ELS/REPORT/3478/05-2021****ISSUE DATE : 27/05/2021****YOUR REF. : 1300022569****REF. DATE : 27/04/2021****SAMPLE PARTICULARS :****Sampling Plan Ref. No.:** 28-05/2021**Sample Registration Date** : 21/05/2021**Date of Sampling** : 19/05/2021 to 20/05/2021**Time of Sampling** : 11:50 Hrs. to 11:50 Hrs.**Analysis Starting Date** : 21/05/2021**Analysis Completion Date** : 28/05/2021**Sample Lab Code** : UT/ELS/265/05-2021**Ambient Air Temperature** : 23.6°C to 34.4°C**AMBIENT AIR QUALITY MONITORING****Location Code** : 03**Sample Location** : Near Dandwadi. (10 Meter off to North-East Direction towards DM Room)
Co-ordinates: N 18°51'02.90"; E 73°12'51.73"**Collected By** : ULTRA TECH**Height of Sampler** : 1.0 Meter**Sampling Duration** : 24 Hours**Relative Humidity** : 49.9% to 69.1 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Ozone (O ₃) [∞]	IS 5182 (Part 09) : 1974	BDL [DL=10]	µg/m ³
2.	Benzene (C ₆ H ₆) [∞]	IS 5182 (Part 11) : 2006	BDL [DL=1]	µg/m ³
3.	Benzo(α)Pyrene (BaP) - Particulate Phase	IS 5182 (Part 12) : 2004	BDL [DL=0.5]	ng/m ³
4.	Nickel (Ni)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL [DL=1]	ng/m ³

[∞]: Sampling Period 8 Hrs.
BDL: Below Detection Limit DL: Detection Limit

Opinions / Interpretations: National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-II for your reference.
(Turnover to find Annexure)

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model- PEM-RDS 9; Sr. No. 1118	Valid up to - 21/01/2022
	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10µ; Sr. No. 3119	Valid up to - 29/11/2021

Note:

1. This test report refers only to the sample tested.
2. Monitoring area coming under Industrial areas and observed values are relevant to sample collected only.
3. This test report may not be reproduced in part, without the permission of this laboratory.
4. Any correction invalidates this test report.
5. Weather was Sunny & Clear during Sampling period.
6. Parameter is tested are not covered under NABL scope.
7. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3477/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)



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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.
Unit: "Patalaganga"
Village: Lohop, Talvali, Patalganga, Tal: Khalapur,
Dist: Raigad-410207, Maharashtra, India

REPORT NO. : UT/ELS/REPORT/3479/05-2021
ISSUE DATE : 27/05/2021
YOUR REF. : 1300022569
REF. DATE : 27/04/2021

SAMPLE PARTICULARS :

Sampling Plan Ref. No.: 28-05/2021
Sample Registration Date : 21/05/2021
Date of Sampling : 19/05/2021 to 20/05/2021
Time of Sampling : 12:35 Hrs. to 12:35 Hrs.
Analysis Starting Date : 21/05/2021
Analysis Completion Date : 28/05/2021
Sample Lab Code : UT/ELS/266/05-2021
Ambient Air Temperature : 23.1°C to 34.6°C

AMBIENT AIR QUALITY MONITORING

Location Code : 04
Sample Location : Material gate (10 Meter off to North-East Direction from Security Cabin)
Co-ordinates: N 18°51'11.58"; E 73°12'43.82"
Collected By : ULTRA TECH
Height of Sampler : 1.0 Meter
Sampling Duration : 24 Hours
Relative Humidity : 49.8% to 69.9%

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	13	µg/m ³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	28	µg/m ³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method 10-2.1	98	µg/m ³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	31	µg/m ³
5.	Lead (Pb)	IS 5182 (Part 22) : 2004	BDL[DL=0.01]	µg/m ³
6.	Carbon Monoxide (CO) [†]	IS 5182 (Part 10) : 1999	1.4	mg/m ³
7.	Ammonia (NH ₃) [‡]	ISC Method 401	35	µg/m ³
8.	Arsenic (As)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL[DL=2]	ng/m ³

†: Sampling Period 1 Hr.

‡: Sampling Period 2 Hrs.

BDL: Below Detection Limit

DL: Detection Limit

Opinions / Interpretations: National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-I for your reference.
(Turnover to find Annexure)

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model- PEM-RDS 9NL; Sr. No. 120	Valid up to - 29/11/2021
	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10µ; Sr. No. 3220	Valid up to - 17/02/2022

Note: 1. This test report refers only to the sample tested.
2. Monitoring area coming under Industrial areas and observed values are relevant to sample collected only.
3. This test report may not be reproduced in part, without the permission of this laboratory.
4. Any correction invalidates this test report.
5. Weather Sunny & Clear during Sampling period. Environment was dusty.
6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3480/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,



(Authorized Signatory)

Lab : Survey No. 93/A, Conformity Hissa No.2 G.V.Brothers Bldg., Bata Compound, Khopat, Near Flower Valley, Thane (West) - 400 601, Maharashtra, India.
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TEST REPORT**ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.****Unit: "Patalaganga"****Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,****Dist.: Raigad-410207, Maharashtra, India****REPORT NO. : UT/ELS/REPORT/3480/05-2021****ISSUE DATE : 27/05/2021****YOUR REF. : 1300022569****REF. DATE : 27/04/2021****SAMPLE PARTICULARS :****Sampling Plan Ref. No.:** 28-05/2021**Sample Registration Date** : 21/05/2021**Date of Sampling** : 19/05/2021 to 20/05/2021**Time of Sampling** : 12:35 Hrs. to 12:35 Hrs.**Analysis Starting Date** : 21/05/2021**Analysis Completion Date** : 28/05/2021**Sample Lab Code** : UT/ELS/266/05-2021**Ambient Air Temperature** : 23.1°C to 34.6°C**AMBIENT AIR QUALITY MONITORING****Location Code** : 04**Sample Location** : Material gate (10 Meter off to North-East Direction from Security Cabin)
Co-ordinates: N 18°51'11.58", E 73°12'43.82"**Collected By** : ULTRA TECH**Height of Sampler** : 1.0 Meter**Sampling Duration** : 24 Hours**Relative Humidity** : 49.8% to 69.9 %

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Ozone (O ₃) [∞]	IS 5182 (Part 09) : 1974	BDL [DL=10]	µg/m ³
2.	Benzene (C ₆ H ₆) [∞]	IS 5182 (Part 11) : 2006	BDL [DL=1]	µg/m ³
3.	Benzo[α]Pyrene (BaP) - Particulate Phase	IS 5182 (Part 12) : 2004	BDL [DL=0.5]	µg/m ³
4.	Nickel (Ni)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL [DL=1]	µg/m ³
∞: Sampling Period 8 Hrs.				
BDL: Below Detection Limit		DL: Detection Limit		

Opinions / Interpretations: National Ambient Air Quality Monitoring Standard, Part III- Section IV is provided as Annexure-II for your reference.
(Turnover to find Annexure)

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model- PEM-RDS 9NL; Sr. No. 120	Valid up to - 29/11/2021
	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10µ; Sr. No. 3220	Valid up to - 17/02/2022

- Note:**
1. This test report refers only to the sample tested.
 2. Monitoring area coming under Industrial areas and observed values are relevant to sample collected only.
 3. This test report may not be reproduced in part, without the permission of this laboratory.
 4. Any correction invalidates this test report.
 5. Weather was Sunny & Clear during Sampling period.
 6. Parameter is tested are not covered under NABL scope.
 7. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3479/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)

COMPOSITE REPORT

Analysis Results Summary of Ambient Air Quality Monitoring for May 2021

[Monitoring Frequency-Monthly]

PARTICULARS					SAMPLING DETAILS			
					Tank Farm area	Switch Yard Area	Near Dandwadi	Material Gate
Monitoring Period					First Fortnight			
Date Of Sampling					19/05/2021 to 20/05/2021	19/05/2021 to 20/05/2021	19/05/2021 to 20/05/2021	19/05/2021 to 20/05/2021
Sample Lab Code					UT/ELS/263/05-2021	UT/ELS/264/05-2021	UT/ELS/265/05-2021	UT/ELS/266/05-2021
Report No/s.					UT/ELS/REPORT/3473/05-2021 & UT/ELS/REPORT/3474/05-2021	UT/ELS/REPORT/3475/05-2021 & UT/ELS/REPORT/3476/05-2021	UT/ELS/REPORT/3477/05-2021 & UT/ELS/REPORT/3478/05-2021	UT/ELS/REPORT/3479/05-2021 & UT/ELS/REPORT/3480/05-2021
Sr. No	PARAMETER	TWA	NAAQS	UNIT				
01.	Sulphur Dioxide (SO ₂)	Annual*	50	µg/m ³	8	7	10	13
		24 Hours**	80					
02.	Oxides of Nitrogen (NO _x)	Annual*	20	µg/m ³	28	21	23	28
		24 Hours**	80					
03.	Particulate Matter (PM ₁₀)	Annual*	60	µg/m ³	86	79	91	98
		24 Hours**	100					
04.	Particulate Matter (PM _{2.5})	Annual*	40	µg/m ³	24	24	33	31
		24 Hours**	60					
05.	Ozone (O ₃)	08 Hours*	100	µg/m ³	BDL [DL=10]	BDL [DL=10]	BDL [DL=10]	BDL [DL=10]
		01 Hours**	180					
06.	Lead (Pb)	Annual*	0.50	µg/m ³	BDL [DL=0.01]	BDL [DL=0.01]	BDL [DL=0.01]	BDL [DL=0.01]
		24 Hours**	1.0					
07.	Carbon Monoxide (CO)	08 Hours**	02	mg/m ³	1.3	1.2	1.3	1.4
		01 Hours**	04					
08.	Ammonia (NH ₃)	Annual*	100	µg/m ³	34	38	43	35
		24 Hours**	400					
09.	Benzene (C ₆ H ₆)	Annual*	05	µg/m ³	BDL [DL=1]	BDL [DL=1]	BDL [DL=1]	BDL [DL=1]
10.	Benzo(a)Pyrene (BaP) - Particulate Phase	Annual*	01	ng/m ³	BDL [DL=0.5]	BDL [DL=0.5]	BDL [DL=0.5]	BDL [DL=0.5]
11.	Arsenic (As)	Annual*	06	ng/m ³	BDL [DL=2]	BDL [DL=2]	BDL [DL=2]	BDL [DL=2]
12.	Nickel (Ni)	Annual*	20	ng/m ³	BDL [DL=1]	BDL [DL=1]	BDL [DL=1]	BDL [DL=1]

BDL: Below Detection Limit

DL: Detection Limit

TWA: Time Weighted Average

NAAQS: NATIONAL AMBIENT AIR QUALITY STANDARDS, PART III-SECTION IV [The Gazette of India with Effect from Wednesday, November 18, 2009/KARTIKA 27, 1931]

* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

NOTE: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigations.



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Tele : +91 22 2547 49 07 / +91 22 2547 62 17 Email : lab@ultratech.in Visit us at : www.ultratech.in**TEST REPORT**

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3486/05-2021
Unit: "Patalaganga" ISSUE DATE : 27/05/2021
Village: Lohop, Talvali, Patalganga, Tal.: Khalapur, YOUR REF. : 1300022569
Dist.: Raigad-410207, Maharashtra, India REF. DATE : 27/04/2021

SAMPLE PARTICULARS : WORKPLACE AIR QUALITY MONITORING
Sampling Plan Ref. No.: 28-05/2021 Location Code : 01
Sample Registration Date : 21/05/2021 Sample Location : Ware House Canteen Area
Date of Sampling : 19/05/2021
Time of Sampling : 12:50 Hrs. to 20:50 Hrs.
Analysis Starting Date : 21/05/2021 Collected By : ULTRA TECH
Analysis Completion Date : 26/05/2021 Height of Sampler : 1.0 Meter
Sample Lab Code : UT/ELS/253/05-2021 Sampling Duration : 08 Hours
Ambient Air Temperature : 24.8°C to 37.7°C

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Hydrocarbons as Non-Methane (NMHC)	IS 5182 (Part 17) : 1979	BDL [DL=0.5]	ppm
2.	Polyaromatic Hydrocarbons (PAH)	IS 5182 (Part 12) : 2004	BDL [DL=0.5]	ng/m ³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method 10-2.1	0.14	mg/m ³
4.	Carbon Monoxide (CO)	IS 5182 (Part 10) : 1999	1.4	mg/m ³

BDL: Below Detection Limit DL: Detection Limit

Opinions / Interpretations: Factories Act - 1948, Schedule II. For the tested parameters is enclosed as Enclosure-III for your reference.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model - PEM RDS 9; Sr. No. 918	Valid up to - 20/12/2021
	Fine Dust Sampler	Make - POLLTECH; Model - PEM-ADS 2.5/10µ; Sr. No. 19213	Valid up to - 06/10/2021

Note: 1. This test report refers only to the sample tested.
2. Monitoring area coming under Industrial areas and observed values are relevant to sample collected only.
3. This test report may not be reproduced in part, without the permission of this laboratory.
4. Any correction invalidates this test report.
5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3485/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)

ULTRA-TECH
Gazetted by MoEF Govt. of India
THANE (W) INDIA
PIN-400 601
ENVIRONMENTAL CONSULTANCY & LABORATORY

Environmental Consultancy & Laboratory

Lab. Gazetted by MoEF&CC-Govt. of India [Recognized for period 02.06.2016 to 01.06.2021]
 Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2021 in the field of Testing]
 QCI-NABET Accredited EIA Consulting Organization
 STP/ETP/WTP Project Management Consultants



ISO 9001 : 2015
 OHSAS 18001 : 2007

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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3485/05-2021
 Unit: "Patalaganga" ISSUE DATE : 27/05/2021
 Village: Lohop, Talvali, Patalganga, Tal.: Khalapur, YOUR REF. : 1300022569
 Dist.: Raigad-410207, Maharashtra, India REF. DATE : 27/04/2021

SAMPLE PARTICULARS	:	WORKPLACE AIR QUALITY MONITORING
Sampling Plan Ref. No.:	: 28-05/2021	Location Code : 01
Sample Registration Date	: 21/05/2021	Sample Location : Ware House Canteen Area
Date of Sampling	: 19/05/2021	
Time of Sampling	: 12:50 Hrs. to 20:50 Hrs.	
Analysis Starting Date	: 21/05/2021	Collected By : ULTRA TECH
Analysis Completion Date	: 26/05/2021	Height of Sampler : 1.0 Meter
Sample Lab Code	: UT/ELS/253/05-2021	Sampling Duration : 08 Hours
Ambient Air Temperature	: 23.8°C to 34.2°C	

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	0.02	mg/m ³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	0.03	mg/m ³

Opinions / Interpretations: Factories Act - 1948, Schedule II. For the tested parameters is enclosed as Enclosure-III for your reference.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model - PEM RDS 9; Sr. No. 918	Valid up to - 20/12/2021
	Fine Dust Sampler	Make - POLLTECH; Model - PEM-ADS 2.5/10µ; Sr. No. 19213	Valid up to - 06/10/2021

Note: 1. This test report refers only to the sample tested.
 2. Monitoring area coming under Industrial areas and observed values are relevant to sample collected only.
 3. This test report may not be reproduced in part, without the permission of this laboratory.
 4. Any correction invalidates this test report.
 5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3486/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,

 (Authorized Signatory)

Environmental Consultancy & Laboratory

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 Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2021 in the field of Testing]
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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3487/05-2021
 Unit: "Patalaganga" ISSUE DATE : 27/05/2021
 Village: Lohop, Talvali, Patalganga, Tal.: Khalapur, YOUR REF. : 1300022569
 Dist.: Raigad-410207, Maharashtra, India REF. DATE : 27/04/2021

SAMPLE PARTICULARS	:	WORKPLACE AIR QUALITY MONITORING
Sampling Plan Ref. No.:	: 28-05/2021	Location Code : 02
Sample Registration Date	: 21/05/2021	Sample Location : Ware House Packing Area
Date of Sampling	: 19/05/2021	
Time of Sampling	: 13:05 Hrs. to 21:05 Hrs.	
Analysis Starting Date	: 21/05/2021	Collected By : ULTRA TECH
Analysis Completion Date	: 26/05/2021	Height of Sampler : 1.0 Meter
Sample Lab Code	: UT/ELS/254/05-2021	Sampling Duration : 08 Hours
Ambient Air Temperature	: 23.5°C to 34.6°C	

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	0.01	mg/m ³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	0.01	mg/m ³

Opinions / Interpretations: Factories Act - 1948, Schedule II. For the tested parameters is enclosed as Enclosure-III for your reference.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model - PEM RDS 9; Sr. No. 315	Valid up to - 02/10/2021
	Fine Dust Sampler	Make - POLLTECH; Model - PEM-ADS 2.5/10µ; Sr. No. 18113	Valid up to - 28/02/2022

Note: 1. This test report refers only to the sample tested.
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 4. Any correction invalidates this test report.
 5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3488/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -



For ULTRA TECH,

(Authorized Signatory)

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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3488/05-2021
Unit: "Patalaganga" ISSUE DATE : 27/05/2021
Village: Lohop, Talvali, Patalganga, Tal.: Khalapur, YOUR REF. : 1300022569
Dist.: Raigad-410207, Maharashtra, India REF. DATE : 27/04/2021

SAMPLE PARTICULARS : WORKPLACE AIR QUALITY MONITORING
Sampling Plan Ref. No.: 28-05/2021 Location Code : 02
Sample Registration Date : 21/05/2021 Sample Location : Ware House Packing Area
Date of Sampling : 19/05/2021
Time of Sampling : 13:05 Hrs. to 21:05 Hrs.
Analysis Starting Date : 21/05/2021 Collected By : ULTRA TECH
Analysis Completion Date : 26/05/2021 Height of Sampler : 1.0 Meter
Sample Lab Code : UT/ELS/254/05-2021 Sampling Duration : 08 Hours
Ambient Air Temperature : 23.5°C to 34.6°C

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Hydrocarbons as Non-Methane (NMHC)	IS 5182 (Part 17) : 1979	BDL [DL=0.5]	ppm
2.	Polycyclic Aromatic Hydrocarbons (PAH)	IS 5182 (Part 12) : 2004	BDL [DL=0.5]	ng/m ³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method 10-2.1	0.13	mg/m ³
4.	Carbon Monoxide (CO)	IS 5182 (Part 10) : 1999	1.1	mg/m ³
BDL: Below Detection Limit		DL: Detection Limit		

Opinions / Interpretations: Factories Act - 1948, Schedule II. For the tested parameters is enclosed as Enclosure - II for your reference.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model - PEM RDS 9; Sr. No. 315	Valid up to - 02/10/2021
	Fine Dust Sampler	Make - POLLTECH; Model - PEM-ADS 2.5/10µ; Sr. No. 1B113	Valid up to - 28/02/2022

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5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3487/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)


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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. **REPORT NO. :** UT/ELS/REPORT/3493/05-2021
Unit: "Patalaganga" **ISSUE DATE :** 27/05/2021
Village: Lohop, Talvali, Patalganga, Tal.: Khalapur, **YOUR REF. :** 1300022569
Dist.: Raigad-410207, Maharashtra, India **REF. DATE :** 27/04/2021

SAMPLE PARTICULARS	WORKPLACE AIR QUALITY MONITORING
Sampling Plan Ref. No. : 28-05/2021	Location Code : 05
Sample Registration Date : 21/05/2021	Sample Location : Ware House Loading Area
Date of Sampling : 20/05/2021	
Time of Sampling : 12:00 Hrs. to 20:00 Hrs.	
Analysis Starting Date : 21/05/2021	Collected By : ULTRA TECH
Analysis Completion Date : 26/05/2021	Height of Sampler : 1.0 Meter
Sample Lab Code : UT/ELS/257/05-2021	Sampling Duration : 08 Hours
Ambient Air Temperature : 23.4°C to 34.4°C	

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	0.01	mg/m ³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	0.03	mg/m ³

Opinions / Interpretations: Factories Act - 1948, Schedule II. For the tested parameters is enclosed as Enclosure-III for your reference.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model - PEM-RDS 8N1; Sr. No. 3613	Valid upto - 01/06/2021
	Fine Dust Sampler	Make - POLLTECH; Model - PEM-ADS 2.5/10µ; Sr. No. 18513	Valid upto - 02/03/2022

Note:

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3. This test report may not be reproduced in part, without the permission of this laboratory.
4. Any correction invalidates this test report.
5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3494/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -



For ULTRA TECH,

(Authorized Signatory)

Lab : Survey No. 93/A, Conformity Hissa No.2 G.V.Brothers Bldg., Bata Compound, Khopat, Near Flower Valley, Thane (West) - 400 601, Maharashtra, India,
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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3494/05-2021
Unit: "Patalaganga" ISSUE DATE : 27/05/2021
Village: Lohop, Talvali, Patalganga, Tal: Khalapur, YOUR REF. : 1300022569
Dist.: Raigad-410207, Maharashtra, India REF. DATE : 27/04/2021

SAMPLE PARTICULARS : WORKPLACE AIR QUALITY MONITORING
Sampling Plan Ref. No.: : 28-05/2021 Location Code : 05
Sample Registration Date : 21/05/2021 Sample Location : Ware House Loading Area
Date of Sampling : 20/05/2021
Time of Sampling : 12:00 Hrs. to 20:00 Hrs.
Analysis Starting Date : 21/05/2021 Collected By : ULTRA TECH
Analysis Completion Date : 26/05/2021 Height of Sampler : 1.0 Meter
Sample Lab Code : UT/ELS/257/05-2021 Sampling Duration : 08 Hours
Ambient Air Temperature : 23.4°C to 34.4°C

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Hydrocarbons as Non-Methane (NMHC)	IS 5182 (Part 17) : 1979	BDL [DL=0.5]	ppm
2.	Polyaromatic Hydrocarbons (PAH)	IS 5182 (Part 12) : 2004	BDL [DL=0.5]	ng/m ³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method 10-2.1	0.12	mg/m ³
4.	Carbon Monoxide (CO)	IS 5182 (Part 10) : 1999	1.3	mg/m ³
BDL: Below Detection Limit		DL: Detection Limit		

Opinions / Interpretations: Factories Act - 1948, Schedule II. For the tested parameters is enclosed as Enclosure-III for your reference.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Respirable Dust Sampler	Make - POLLTECH; Model - PEM-RDS 8NI; Sr. No. 3613	Valid upto - 01/06/2021
	Fine Dust Sampler	Make - POLLTECH; Model - PEM-ADS 2.5/10µ; Sr. No. 18513	Valid upto - 02/03/2022

Note: 1. This test report refers only to the sample tested.
2. Monitoring area coming under Industrial areas and observed values are relevant to sample collected only.
3. This test report may not be reproduced in part, without the permission of this laboratory.
4. Any correction invalidates this test report.
5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3493/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,
THANE (W)
INDIA
PIN-400 601
(Authorized Signatory)