



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. **REPORT NO. :** UT/ELS/REPORT/3489/05-2021
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	03
Sample Registration Date	21/05/2021	Sample Location	Reactor Area
Date of Sampling	20/05/2021		
Time of Sampling	10:30 Hrs. to 18:30 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/255/05-2021	Sampling Duration	08 Hours
Ambient Air Temperature	23.1°C to 34.9°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 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/3490/05-2021 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/3490/05-2021
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 : 03
Sample Registration Date : 21/05/2021 Sample Location : Reactor Area
Date of Sampling : 20/05/2021
Time of Sampling : 10:30 Hrs. to 18:30 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/255/05-2021 Sampling Duration : 08 Hours
Ambient Air Temperature : 23.1°C to 34.9°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]	µg/m ³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method IO-2.1	0.12	mg/m ³
4.	Carbon Monoxide (CO)	IS 5182 (Part 10) : 1999	1.5	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

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- END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)

ULTRA TECH
Lab. Gazetted by MoEF Govt. of India
THANE (W) INDIA
PIN-400 601
STP/ETP/WTP Project Management Consultants



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 : 2007Lab : 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/3491/05-2021
 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 : 04
Sample Registration Date : 21/05/2021	Sample Location : DM Plant Room
Date of Sampling : 20/05/2021	
Time of Sampling : 10:45 Hrs. to 18:45 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/256/05-2021	Sampling Duration : 08 Hours
Ambient Air Temperature : 23.2°C to 34.7°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. 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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 5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3492/05-2021 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/3492/05-2021
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 : 04
Sample Registration Date : 21/05/2021 Sample Location : DM Plant Room
Date of Sampling : 20/05/2021
Time of Sampling : 10:45 Hrs. to 18:45 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/256/05-2021 Sampling Duration : 08 Hours
Ambient Air Temperature : 23.2°C to 34.7°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	28	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. 315	Valid up to - 02/10/2023
	Fine Dust Sampler	Make - POLLTECH; Model - PEM-ADS 2.5/10µ; Sr. No. 18113	Valid up to - 28/02/2022

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- END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)

ULTRA TECH
By MoEF Govt. of India
THANE (W)
INDIA
PRO-001-01

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]
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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3497/05-2021
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 :		STACK EMISSIONS QUALITY MONITORING	
Sampling Plan Ref. No.	: 28-05/2021	Analysis Starting Date	: 20/05/2021
Sample Registration Date	: 20/05/2021	Analysis Completion Date	: 26/05/2021
Date of Sampling	: 19/05/2021	Sample Lab Code	: UT/ELS/241/05-2021
Time of Sampling	: 13:30 Hrs. to 14:30 Hrs	Sample Collected By	: ULTRA TECH

STACK DETAILS

Stack ID	: S-03	Stack Height	: 43 meters from Ground Level
Stack Attached To	: D. G. Set (1875 KVA)	Stack Diameter	: 0.254 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: H. S. D.
Stack MOC	: M.S.	Fuel Consumption	: 450 Liters/Hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 475	°K	Volumetric Flow Rate	: 856	Nm ³ /hr
Flue Gas Velocity	: 8.0	m/sec	Total Volume of Flue Gas	: 1.000	Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	33	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	12	mg/Nm ³
			0.24	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07) : 2005	18	mg/Nm ³

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 3813	Valid up to - 25/10/2021

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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/3498/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

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



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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3503/05-2021
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		STACK EMISSIONS QUALITY MONITORING	
Sampling Plan Ref. No.	: 28-05/2021	Analysis Starting Date	: 21/05/2021
Sample Registration Date	: 21/05/2021	Analysis Completion Date	: 26/05/2021
Date of Sampling	: 20/05/2021	Sample Lab Code	: UT/ELS/258/05-2021
Time of Sampling	: 11:30 Hrs. to 12:30 Hrs	Sample Collected By	: ULTRA TECH

STACK DETAILS

Stack ID	: S-08	Stack Height	: 30.0 meters from Ground Level
Stack Attached To	: PGF No. 02	Stack Diameter	: 2.1 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: NA
Stack MOC	: S.S.	Fuel Consumption	: NA

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 392	^o K	Volumetric Flow Rate	: 59884	Nm ³ /hr
Flue Gas Velocity	: 6.6	m/sec	Total Volume of Flue Gas	: 1.000	Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	16	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	BDL[DL=5]	mg/Nm ³
			7.19 [†]	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07) : 2005	14	mg/Nm ³

BDL = Below Detection Limit

DL=Detection Limit

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 3813	Valid up to - 25/10/2021

- Note:
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 4. Any correction invalidates this test report.
 5. [†]: Detection Limit obtained from calculation and tends to change with change in Volumetric Flow Rate of flue gases.
 6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3504/05-2021 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/3504/05-2021
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		STACK EMISSIONS QUALITY MONITORING	
Sampling Plan Ref. No.	: 28-05/2021	Analysis Starting Date	: 21/05/2021
Sample Registration Date	: 21/05/2021	Analysis Completion Date	: 26/05/2021
Date of Sampling	: 20/05/2021	Sample Lab Code	: UT/ELS/258/05-2021
Time of Sampling	: 11:30 Hrs. to 12:30 Hrs	Sample Collected By	: ULTRA TECH

STACK DETAILS

Stack ID	: S-08	Stack Height	: 30.0 meters from Ground Level
Stack Attached To	: PGF No. 02	Stack Diameter	: 2.1 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: NA
Stack MOC	: S.S.	Fuel Consumption	: NA

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 392	⁰ K	Volumetric Flow Rate	: 59884	Nm ³ /hr
Flue Gas Velocity	: 6.6	m/sec	Total Volume of Flue Gas	: 1.000	Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO ANALYZER	15	ppm
2.	Hydrocarbon as Methane	IS 5182 Part 17	BDL[DL=0.5]	ppm
3.	Hydrocarbon as Non Methane	IS 5182 Part 17	BDL[DL=0.5]	ppm
BDL = Below Detection Limit		DL=Detection Limit		

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 3813	Valid up to - 25/10/2021

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5. Parameter is tested are not covered under NABL scope.
6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3503/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,

Authorized Signatory

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TEST REPORT

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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		STACK EMISSIONS QUALITY MONITORING	
Sampling Plan Ref. No.	: 28-05/2021	Analysis Starting Date	: 20/05/2021
Sample Registration Date	: 20/05/2021	Analysis Completion Date	: 26/05/2021
Date of Sampling	: 19/05/2021	Sample Lab Code	: UT/ELS/241/05-2021
Time of Sampling	: 13:30 Hrs. to 14:30 Hrs	Sample Collected By	: ULTRA TECH

STACK DETAILS

Stack ID	: S-03	Stack Height	: 43 meters from Ground Level
Stack Attached To	: D. G. Set (1875 KVA)	Stack Diameter	: 0.254 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: H. S. D.
Stack MOC	: M.S.	Fuel Consumption	: 450 Liters/Hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 475	°K	Volumetric Flow Rate	: 856	Nm ³ /hr
Flue Gas Velocity	: 8.0	m/sec	Total Volume of Flue Gas	: 1.000	Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO ANALIZER	112	ppm
2.	Hydrocarbon as Methane	IS 5182 Part 17	BDL[DL=0.5]	ppm
3.	Hydrocarbon as Non Methane	IS 5182 Part 17	BDL[DL=0.5]	ppm

BDL = Below Detection Limit DL=Detection Limit

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 3813	Valid up to - 25/10/2021

Note: 1. This test report refers only to the sample tested.
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6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3497/05-2021 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/3481/05-2021
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 : **AMBIENT NOISE LEVEL MONITORING**
Sampling Plan Ref. No. : 28-05/2021 **Sample Lab Code :** UT/ELS/267/05-2021
Date of Monitoring : 19/05/2021 to 20/05/2021 **Survey Done By :** ULTRATECH

Sr. No.	Location	Noise Level Reading in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			Leq	Lmin	Lmax		Leq	Lmin	Lmax
01.	Near Tank Farm Area Co-ordinates: N-18°50'54.50", E-73°12'43.35"	06:00 to 07:00	55.5	50.1	64.3	22:00 to 23:00	53.9	47.1	65.6
		07:00 to 08:00	55.1	50.2	63.4	23:00 to 00:00	53.6	44.1	67.3
		08:00 to 09:00	57.4	53.7	65.5	00:00 to 01:00	52.6	48.6	69.1
		09:00 to 10:00	57.8	54.2	67.1	01:00 to 02:00	50.7	46.5	65.5
		10:00 to 11:00	58.3	54.4	67.9	02:00 to 03:00	52.2	48.1	67.6
		11:00 to 12:00	57.5	53.0	68.2	03:00 to 04:00	52.0	48.5	65.9
		12:00 to 13:00	57.8	51.6	67.7	04:00 to 05:00	52.8	47.6	69.0
		13:00 to 14:00	57.3	50.5	68.5	05:00 to 06:00	55.8	52.1	69.6
		14:00 to 15:00	55.3	48.3	65.5	--	--	--	--
		15:00 to 16:00	56.2	49.5	67.0	--	--	--	--
		16:00 to 17:00	57.6	50.2	71.0	--	--	--	--
		17:00 to 18:00	56.7	49.9	67.9	--	--	--	--
		18:00 to 19:00	56.5	50.4	67.2	--	--	--	--
		19:00 to 20:00	56.2	49.2	67.3	--	--	--	--
		20:00 to 21:00	55.9	49.4	67.0	--	--	--	--
		21:00 to 22:00	55.6	48.6	66.8	--	--	--	--
		L ₁₀	59.6			Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise			
		L ₅₀	54.6						
		L ₉₀	53.0						
		Day Leq	56.8						
		Night Leq	53.2						

Opinions / Interpretations: The observed values for Leq dB(A) for Day Time & Night Time are within the standard limits as per Ambient Air Quality Standards in respect of Noise prescribed in The Noise Pollution (Regulation and Control) Rules, 2000 for Industrial Zone.

Note: 1. Monitoring area coming under Industrial Zone.
 2. Day Time - 06:00 Hrs to 22:00 Hrs and Night Time - 22:00 Hrs to 06:00 Hrs.

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make - CASSELA; Model - CEL-633C; Sr. No.2382959	Valid up to - 12/12/2021

Note: 1. This test report refers only to the monitoring conducted.
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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/3495/05-2021
Unit: "Patalaganga" ISSUE DATE : 27/05/2021
Village: Lohop, Talvali, Patalaganga, Tal.: Khalapur, YOUR REF. : 1300022569
Dist.: Raigad-410207, Maharashtra, India REF. DATE : 27/04/2021

SAMPLE PARTICULARS :
Sampling Plan Ref. No. : 28-05/2021 Analysis Starting Date : 20/05/2021
Sample Registration Date : 20/05/2021 Analysis Completion Date : 26/05/2021
Date of Sampling : 19/05/2021 Sample Lab Code : UT/ELS/240/05-2021
Time of Sampling : 12:00 Hrs. to 13:00 Hrs Sample Collected By : ULTRA TECH

STACK DETAILS

Stack ID : S-02 Stack Height : 108 meters from Ground Level
Stack Attached To : Boiler Stack Diameter : 6.3 meter @ Sampling Point
Stack Shape : Round Fuel Used : Flue Gas
Stack MOC : RCC Fuel Consumption : 88,000 Nm³/hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature : 394 °K Volumetric Flow Rate : 414342 Nm³/hr
Flue Gas Velocity : 5.1 m/sec Total Volume of Flue Gas : 1.000 Nm³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	32	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	19	mg/Nm ³
			185	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07) : 2005	30	mg/Nm ³

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 3813	Valid up to - 25/10/2021

Note:
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5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3496/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -



For ULTRA TECH,

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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/3496/05-2021
Unit: "Patalaganga" ISSUE DATE : 27/05/2021
Village: Lohop, Talvali, Patalaganga, Tal.: Khalapur, YOUR REF. : 1300022569
Dist.: Raigad-410207, Maharashtra, India REF. DATE : 27/04/2021

SAMPLE PARTICULARS		STACK EMISSIONS QUALITY MONITORING	
Sampling Plan Ref. No.	: 28-05/2021	Analysis Starting Date	: 20/05/2021
Sample Registration Date	: 20/05/2021	Analysis Completion Date	: 26/05/2021
Date of Sampling	: 19/05/2021	Sample Lab Code	: UT/ELS/240/05-2021
Time of Sampling	: 12:00 Hrs. to 13:00 Hrs	Sample Collected By	: ULTRA TECH

STACK DETAILS

Stack ID	: S-02	Stack Height	: 108 meters from Ground Level
Stack Attached To	: Boiler	Stack Diameter	: 6.3 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: Flue Gas
Stack MOC	: RCC	Fuel Consumption	: 88,000 Nm ³ /hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 394	^o K	Volumetric Flow Rate	: 414342	Nm ³ /hr
Flue Gas Velocity	: 5.1	m/sec	Total Volume of Flue Gas	: 1.000	Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO Analyzer	108	ppm
2.	Hydrocarbon as Methane	IS 5182 Part 17	BDL[DL=0.5]	ppm
3.	Hydrocarbon as Non Methane	IS 5182 Part 17	BDL[DL=0.5]	ppm

BDL = Below Detection Limit

DL=Detection Limit

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 3813	Valid up to - 25/10/2021

Note: 1. This test report refers only to the sample tested.
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6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3495/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -



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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/3507/05-2021
 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	:	STACK EMISSIONS QUALITY MONITORING
Sampling Plan Ref. No.	: 28-05/2021	Analysis Starting Date : 20/05/2021
Sample Registration Date	: 20/05/2021	Analysis Completion Date : 26/05/2021
Date of Sampling	: 19/05/2021	Sample Lab Code : UT/ELS/242/05-2021
Time of Sampling	: 14:45 Hrs. to 15:45 Hrs	Sample Collected By : ULTRA TECH

STACK DETAILS

Stack ID	: S-04	Stack Height	: 52 meters from Ground Level
Stack Attached To	: Gas Flair	Stack Diameter	: 1.4 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: LPG
Stack MOC	: MS	Fuel Consumption	: 15kg/hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 414	^o K	Volumetric Flow Rate	: 32380	Nm ³ /hr
Flue Gas Velocity	: 8.4	m/sec	Total Volume of Flue Gas	: 1.000	Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	31	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	10	mg/Nm ³
			7.95	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07) : 2005	20	mg/Nm ³

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 3813	Valid up to - 25/10/2021

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 5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3508/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -

For ULTRA TECH,

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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/3508/05-2021
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 : 20/05/2021
Date of Sampling : 19/05/2021
Time of Sampling : 14:45 Hrs. to 15:45 Hrs

STACK EMISSIONS QUALITY MONITORING
Analysis Starting Date : 20/05/2021
Analysis Completion Date : 26/05/2021
Sample Lab Code : UT/ELS/242/05-2021
Sample Collected By : ULTRA TECH

STACK DETAILS

Stack ID : S-04
Stack Attached To : Gas Flair
Stack Shape : Round
Stack MOC : MS

Stack Height : 52 meters from Ground Level
Stack Diameter : 1.4 meter @ Sampling Point
Fuel Used : LPG
Fuel Consumption : 15 kg/hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature : 414 °K
Flue Gas Velocity : 8.4 m/sec

Volumetric Flow Rate : 32380 Nm³/hr
Total Volume of Flue Gas : 1.000 Nm³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO ANALYZER	80	ppm
2.	Hydrocarbon as Methane	IS 5182 Part 17	BDL[DL=0.5]	ppm
3.	Hydrocarbon as Non Methane	IS 5182 Part 17	BDL[DL=0.5]	ppm

BDL = Below Detection Limit DL=Detection Limit

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 3813	Valid up to - 25/10/2021

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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. **REPORT NO.** : UT/ELS/REPORT/3499/05-2021
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	:	STACK EMISSIONS QUALITY MONITORING	
Sampling Plan Ref. No.	: 28-05/2021	Analysis Starting Date	: 21/05/2021
Sample Registration Date	: 21/05/2021	Analysis Completion Date	: 26/05/2021
Date of Sampling	: 20/05/2021	Sample Lab Code	: UT/ELS/260/05-2021
Time of Sampling	: 11:00 Hrs. to 12:00 Hrs	Sample Collected By	: ULTRA TECH

STACK DETAILS

Stack ID	: S-01	Stack Height	: 77 meters from Ground Level
Stack Attached To	: Dryer	Stack Diameter	: 1.43 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: Flue Gas
Stack MOC	: M.S.	Fuel Consumption	: 1500 Nm ³ /Hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 458.5	^o K	Volumetric Flow Rate	: 30172	Nm ³ /hr
Flue Gas Velocity	: 8.4	m/sec	Total Volume of Flue Gas	: 1.000	Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	20	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	16	mg/Nm ³
			11.5	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07) : 2005	29	mg/Nm ³

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 3913	Valid up to - 08/10/2021

Note:

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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3500/05-2021
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		STACK EMISSIONS QUALITY MONITORING	
Sampling Plan Ref. No.	: 28-05/2021	Analysis Starting Date	: 21/05/2021
Sample Registration Date	: 21/05/2021	Analysis Completion Date	: 26/05/2021
Date of Sampling	: 20/05/2021	Sample Lab Code	: UT/ELS/260/05-2021
Time of Sampling	: 11:00 Hrs. to 12:00 Hrs	Sample Collected By	: ULTRA TECH

STACK DETAILS

Stack ID	: S-1	Stack Height	: 77 meters from Ground Level
Stack Attached To	: Dryer	Stack Diameter	: 1.43 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: Flue Gas
Stack MOC	: M.S.	Fuel Consumption	: 1,500 Nm ³ /Hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 458.5	°K	Volumetric Flow Rate	: 30172	Nm ³ /hr
Flue Gas Velocity	: 8.4	m/sec	Total Volume of Flue Gas	: 1.000	Nm ³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO ANALYZER	14.0	ppm
2.	Hydrocarbon as Methane	IS 5182 Part 17	8.6	ppm
3.	Hydrocarbon as Non Methane	IS 5182 Part 17	BDL[DL=0.5]	ppm

BDL = Below Detection Limit DL=Detection Limit

Opinions / Interpretations: Nil

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 3913	Valid up to - 08/10/2021

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- END OF REPORT -



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