



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
 OHSA 18001 : 2007

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/3501/05-2021
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/259/05-2021
Time of Sampling : 12:40 Hrs. to 13:40 Hrs	Sample Collected By : ULTRA TECH

STACK DETAILS

Stack ID : S-07	Stack Height : 30.0 meters from Ground Level
Stack Attached To : PGF No. 01	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 : 396 °K	Volumetric Flow Rate : 55300 Nm ³ /hr
Flue Gas Velocity : 6.1 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	13	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	BDL[DL=5]	mg/Nm ³
			6.64 †	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07) : 2005	23	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. 3913	Valid up to - 08/10/2021

- Note:**
- This test report refers only to the sample tested.
 - This test report is valid at the time of and under the conditions specified herein.
 - This test report may not be reproduced in part, without the permission of this laboratory.
 - Any correction invalidates this test report.
 - †: Detection Limit obtained from calculation and tends to change with change in Volumetric Flow Rate of flue gases.
 - This test report shall be referred along with Test Report No. UT/ELS/REPORT/3502/05-2021 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/3502/05-2021
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/259/05-2021
Time of Sampling : 12:40 Hrs. to 13:40 Hrs	Sample Collected By : ULTRA TECH

STACK DETAILS

Stack ID : S-7	Stack Height : 30.0 meters from Ground Level
Stack Attached To : PGF No. 01	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 : 396 °K	Volumetric Flow Rate : 55300 Nm ³ /hr	
Flue Gas Velocity : 6.1 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	1.2	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. 3913	Valid up to - 08/10/2021

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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/3501/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -



For ULTRA TECH,

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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3505/05-2021
 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/261/05-2021
Time of Sampling	: 12:30 Hrs. to 13:30 Hrs	Sample Collected By	: ULTRA TECH

STACK DETAILS

Stack ID	: S-06	Stack Height	: 30 meters from Ground Level
Stack Attached To	: Packing Exhaust Blower	Stack Diameter	: 0.2 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: NA
Stack MOC	: MS	Fuel Consumption	: NA

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 381.0	°K	Volumetric Flow Rate	: 442	Nm ³ /hr
Flue Gas Velocity	: 5.2	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	24	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	12	mg/Nm ³
			0.13 †	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

Note: 1. This test report refers only to the sample tested.
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- END OF REPORT -

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ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. Unit: "Patalaganga" Village: Lohop, Talvali, Patalaganga, Tal.: Khalapur, Dist.: Raigad-410207, Maharashtra, India	REPORT NO. : UT/ELS/REPORT/3506/05-2021 ISSUE DATE : 27/05/2021 YOUR REF. : 1300022569 REF. DATE : 27/04/2021
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SAMPLE PARTICULARS : Sampling Plan Ref. No. : 28-05/2021 Sample Registration Date : 21/05/2021 Date of Sampling : 20/05/2021 Time of Sampling : 12:30 Hrs. to 13:30 Hrs	STACK EMISSIONS QUALITY MONITORING Analysis Starting Date : 21/05/2021 Analysis Completion Date : 26/05/2021 Sample Lab Code : UT/ELS/261/05-2021 Sample Collected By : ULTRA TECH
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STACK DETAILS

Stack ID : S-06 Stack Attached To : Packing Exhaust Blower Stack Shape : Round Stack MOC : MS	Stack Height : 30 meters from Ground Level Stack Diameter : 0.2 meter @ Sampling Point Fuel Used : NA Fuel Consumption : NA
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FLUE GAS CHARACTERISTICS

Flue Gas Temperature : 381.0 °K	Volumetric Flow Rate : 442 Nm ³ /hr	
Flue Gas Velocity : 5.2 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	1.7	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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- END OF REPORT -



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 OHSAS 18001 : 2007

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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3509/05-2021
 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/262/05-2021
Time of Sampling	: 15:00 Hrs. to 16:00 Hrs	Sample Collected By	: ULTRA TECH

STACK DETAILS

Stack ID	: S-05	Stack Height	: 3.0 meters from Ground Level
Stack Attached To	: Fire Diesel pump	Stack Diameter	: 0.15 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: HSD
Stack MOC	: MS	Fuel Consumption	: 2.22 kg/hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 462.0	°K	Volumetric Flow Rate	: 315	Nm ³ /hr
Flue Gas Velocity	: 7.8	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	25	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	13	mg/Nm ³
			0.10	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07) : 2005	16	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

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- END OF REPORT -



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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/3510/05-2021 ISSUE DATE : 27/05/2021 YOUR REF. : 1300022569 REF. DATE : 27/04/2021
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SAMPLE PARTICULARS : Sampling Plan Ref. No. : 28-05/2021 Sample Registration Date : 21/05/2021 Date of Sampling : 20/05/2021 Time of Sampling : 15:00 Hrs. to 16:00 Hrs	STACK EMISSIONS QUALITY MONITORING Analysis Starting Date : 21/05/2021 Analysis Completion Date : 26/05/2021 Sample Lab Code : UT/ELS/262/05-2021 Sample Collected By : ULTRA TECH
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STACK DETAILS

Stack ID : S-05 Stack Attached To : Fire Diesel pump Stack Shape : Round Stack MOC : MS	Stack Height : 3.0 meters from Ground Level Stack Diameter : 0.15 meter @ Sampling Point Fuel Used : HSD Fuel Consumption : 2.22 kg/hr
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FLUE GAS CHARACTERISTICS

Flue Gas Temperature : 462.0 °K	Volumetric Flow Rate : 315 Nm ³ /hr	
Flue Gas Velocity : 7.8 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	40	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. 3913	Valid up to - 08/10/2021

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 6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/3509/05-2021 Dated 27/05/2021 for final conclusion.

- END OF REPORT -



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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. REPORT NO. : UT/ELS/REPORT/3511/05-2021
 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/243/05-2021
Time of Sampling	: 16:00 Hrs. to 17:00 Hrs	Sample Collected By	: ULTRA TECH

STACK DETAILS

Stack ID	: S-09	Stack Height	: 3.0 meters from Ground Level
Stack Attached To	: D.G SET- 250KVA (River Side)	Stack Diameter	: 0.15 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: HSD
Stack MOC	: MS	Fuel Consumption	: 322.5 kg/hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature	: 420	°K	Volumetric Flow Rate	: 362	Nm ³ /hr
Flue Gas Velocity	: 8.2	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	30	mg/Nm ³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02): 1985	14	mg/Nm ³
			0.13	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07): 2005	16	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/3512/05-2021 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/3512/05-2021 ISSUE DATE : 27/05/2021 YOUR REF. : 1300022569 REF. DATE : 27/04/2021
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SAMPLE PARTICULARS : Sampling Plan Ref. No. : 28-05/2021 Sample Registration Date : 20/05/2021 Date of Sampling : 19/05/2021 Time of Sampling : 16:00 Hrs. to 17:00 Hrs	STACK EMISSIONS QUALITY MONITORING Analysis Starting Date : 20/05/2021 Analysis Completion Date : 26/05/2021 Sample Lab Code : UT/ELS/243/05-2021 Sample Collected By : ULTRA TECH
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STACK DETAILS			
Stack ID	: S-09	Stack Height	: 3.0 meters from Ground Level
Stack Attached To	: D.G SET -250KVA (River Side)	Stack Diameter	: 0.15 meter @ Sampling Point
Stack Shape	: Round	Fuel Used	: HSD
Stack MOC	: MS	Fuel Consumption	: 322.45 kg/hr

FLUE GAS CHARACTERISTICS			
Flue Gas Temperature	: 420 °K	Volumetric Flow Rate	: 362 Nm ³ /hr
Flue Gas Velocity	: 8.2 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	104	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:**
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- END OF REPORT -



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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED, **REPORT NO. :** UT/ELS/REPORT/3482/05-2021
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/268/05-2021
Date of Monitoring : 19/05/2021 to 20/05/2021 **Survey Done By :** ULTRA TECH

Sr. No.	Location	Noise Level Reading in dB(A) Leq												
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)							
			Leq	L _{min}	L _{max}		Leq	L _{min}	L _{max}					
01	Near Switch Yard Area Co-ordinates: N-18°51'11.22", E-73°12'48.88"	06:00 to 07:00	57.6	53.5	64.7	22:00 to 23:00	61.0	53.2	72.9					
		07:00 to 08:00	59.2	52.2	69.3	23:00 to 00:00	55.8	53.3	63.5					
		08:00 to 09:00	60.5	53.3	71.1	00:00 to 01:00	55.1	53.0	61.1					
		09:00 to 10:00	60.6	51.7	72.1	01:00 to 02:00	53.9	52.5	57.3					
		10:00 to 11:00	62.1	53.1	73.7	02:00 to 03:00	54.0	52.6	56.1					
		11:00 to 12:00	60.7	51.5	72.0	03:00 to 04:00	53.6	52.4	56.5					
		12:00 to 13:00	58.0	50.6	67.7	04:00 to 05:00	53.6	52.4	57.5					
		13:00 to 14:00	55.6	48.0	62.6	05:00 to 06:00	55.4	52.9	63.0					
		14:00 to 15:00	59.8	50.0	71.2	--	--	--	--					
		15:00 to 16:00	60.7	47.8	72.9	--	--	--	--					
		16:00 to 17:00	59.7	47.9	71.4	--	--	--	--					
		17:00 to 18:00	61.9	48.1	73.6	--	--	--	--					
		18:00 to 19:00	60.5	53.0	70.9	--	--	--	--					
		19:00 to 20:00	60.6	51.7	71.7	--	--	--	--					
		20:00 to 21:00	57.0	50.5	68.5	--	--	--	--					
		21:00 to 22:00	53.9	49.6	61.9	--	--	--	--					
			L₁₀	61.1			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							
			L₅₀	54.7										
			L₉₀	52.5										
			Day Leq	59.8								75		
			Night Leq	56.1								70		

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 - LUTORN; Model - SL4033SD; Sr. No. Q660350	Valid up to - 14/10/2021

Note: 1. This test report refers only to the monitoring conducted.
 2. This test report may not be reproduced in part, without the permission of this laboratory.
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For ULTRA TECH,

 Authorized Signatory

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

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/3483/05-2021
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/269/05-2021
Date of Monitoring : 19/05/2021 to 20/05/2021 **Survey Done By :** ULTRA TECH

Sr. No.	Location	Noise Level Reading in dB(A) Leq							
		Time (Hrs)	Day dB(A)			Time (Hrs)	Night dB(A)		
			Leq	L _{min}	L _{max}		Leq	L _{min}	L _{max}
01.	Near Dandwadi Co-ordinates: N-18°51'02.13", E-73°12'50.75"	06:00 to 07:00	57.2	41.7	68.2	22:00 to 23:00	57.6	40.6	71.7
		07:00 to 08:00	59.9	45.7	73.8	23:00 to 00:00	62.8	49.9	77.7
		08:00 to 09:00	62.9	49.9	78.2	00:00 to 01:00	56.5	40.6	73.9
		09:00 to 10:00	61.7	53.1	72.7	01:00 to 02:00	55.2	40.6	70.8
		10:00 to 11:00	62.1	48.0	77.0	02:00 to 03:00	58.2	48.4	71.5
		11:00 to 12:00	60.3	48.5	72.9	03:00 to 04:00	56.6	47.3	70.1
		12:00 to 13:00	58.7	45.4	74.2	04:00 to 05:00	58.9	44.4	71.1
		13:00 to 14:00	57.3	46.7	78.1	05:00 to 06:00	55.9	46.7	69.0
		14:00 to 15:00	58.8	41.4	72.6	--	--	--	--
		15:00 to 16:00	59.7	44.9	74.4	--	--	--	--
		16:00 to 17:00	59.9	45.6	73.5	--	--	--	--
		17:00 to 18:00	58.1	44.4	72.3	--	--	--	--
		18:00 to 19:00	58.1	44.5	73.7	--	--	--	--
		19:00 to 20:00	56.4	38.7	72.1	--	--	--	--
		20:00 to 21:00	58.7	36.8	74.7	--	--	--	--
		21:00 to 22:00	60.2	46.8	75.5	--	--	--	--
			L ₁₀	62.0			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	58.7							
	L ₉₀	56.5							
	Day Leq	59.7			75				
	Night Leq	58.4			70				

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 - ENVIROTECH; Model - SLM 100; Sr. No. 192-DTK-2012	Valid up to - 14/10/2021

Note: 1. This test report refers only to the monitoring conducted.
 2. This test report may not be reproduced in part, without the permission of this laboratory.
 3. Any correction invalidates this test report.

- END OF REPORT -



For ULTRA TECH,

Authorized Signatory

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. **REPORT NO. :** UT/ELS/REPORT/3484/05-2021
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/270/05-2021
Date of Monitoring : 19/05/2021 to 20/05/2021 **Survey Done By :** ULTRA TECH

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 Material Gate Co-ordinates: N-18°51'10.73", E-73°12'43.94"	06:00 to 07:00	59.3	55.5	68.1	22:00 to 23:00	59.6	52.8	68.9			
		07:00 to 08:00	60.2	52.9	71.7	23:00 to 00:00	67.0	53.7	80.4			
		08:00 to 09:00	62.7	53.7	75.4	00:00 to 01:00	57.0	52.8	64.5			
		09:00 to 10:00	57.4	52.1	68.4	01:00 to 02:00	60.8	48.6	71.5			
		10:00 to 11:00	64.0	54.6	74.8	02:00 to 03:00	61.6	52.0	73.1			
		11:00 to 12:00	62.7	51.6	74.7	03:00 to 04:00	63.1	49.8	76.2			
		12:00 to 13:00	61.4	52.2	73.7	04:00 to 05:00	65.4	51.5	80.0			
		13:00 to 14:00	59.6	54.1	69.3	05:00 to 06:00	58.4	53.3	68.2			
		14:00 to 15:00	64.8	55.6	76.9	--	--	--	--			
		15:00 to 16:00	61.4	53.9	72.8	--	--	--	--			
		16:00 to 17:00	63.5	54.9	75.6	--	--	--	--			
		17:00 to 18:00	60.3	53.0	71.6	--	--	--	--			
		18:00 to 19:00	59.2	53.8	68.4	--	--	--	--			
		19:00 to 20:00	61.7	55.3	72.7	--	--	--	--			
		20:00 to 21:00	63.6	53.3	73.6	--	--	--	--			
		21:00 to 22:00	62.2	53.6	73.4	--	--	--	--			
			L10	63.9			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					
	L50	56.7										
	L90	54.2										
	Day Leq	61.9			75							
	Night Leq	62.8			70							

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 - LUTDRN; Model - SL4033SD; Sr. No. Q646217	Valid up to - 14/10/2021

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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. REPORT NO. : UT/ELS/REPORT/3513/05-2021
 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
 Date of Monitoring : 19/05/2021
 Average Temperature : 32.0 °C
 Wind Speed : 0.4 m/s
 Noise Source Details : D. G. Set of Capacity 1875 KVA Installed in Acoustic Room Mounted on Reinforced Concrete Cement Base.
 Make: Transter., Model No.: GC026/20, Sr. No.: 820080557
 Dimensions of D. G. Set: 11.0 meter X 10.0 Meter X 8.0 Meter (L X B X H)
 Fuel Used: HSD, Fuel Consumption: 450 liter/hours.

SOURCE NOISE LEVEL MONITORING
 Sample Lab Code : UT/ELS/244/05-2021
 Survey Done By : ULTRA TECH
 Relative Humidity : 48%
 Weather Condition : Clear

Sr. No.	Location	Noise Level Reading in dB(A)
1	Measurement Point No. 01 (in front of Northern Face of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	102.0
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.2
2	Measurement Point No. 02 (in front of Northern Face of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	101.2
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.6
3	Measurement Point No. 03 (in front of Western Face of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	102.2
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	75.2
4	Measurement Point No. 04 (in front of Southern Face of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	100.8
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.0
5	Measurement Point No. 05 (in front of Southern Face of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	103.0
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.2
6	Measurement Point No. 06 (in front of Eastern Face of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	102.1
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.8
7	Measurement Point No. 07 (On top of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	No Approach
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	No Approach
8	Measurement Point No. 08 (On top of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	No Approach
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	No Approach
9	Measurement Point No. 09 (in front of North-Eastern Corner of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	102.3
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.9



TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED. **REPORT NO. : UT/ELS/REPORT/3513/05-2021**
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 : **SOURCE NOISE LEVEL MONITORING**
Sampling Plan Ref. No. : 28-05/2021 **Sample Lab Code : UT/ELS/244/05-2021**
Date of Monitoring : 19/05/2021 **Survey Done By : ULTRA TECH**
Average Temperature : 32.0 °C **Relative Humidity : 48%**
Wind Speed : 0.4 m/s **Weather Condition : Clear**
Noise Source Details : D. G. Set of Capacity 1875 KVA Installed in Acoustic Room Mounted on Reinforced Concrete Cement Base.
Make: Transfer., Model No.: GC026/20, Sr. No.: 820080557
Dimensions of D. G. Set: 11.0 meter X 10.0 Meter X 8.0 Meter (L X B X H)
Fuel Used: HSD, Fuel Consumption: 450 liter/hours.

Sr. No.	Location	Noise Level Reading in dB(A)
10	Measurement Point No. 10 (in front of North-Western Corner of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	103.0
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.0
11	Measurement Point No. 11 (in front of South-Western Corner of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	102.1
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.3
12	Measurement Point No. 12 (in front of South-Eastern Corner of D. G. Set)	
	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	102.3
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.8
Average Noise Level of D. G. Set under study at 0.5 meter distance - While Acoustic Room opened		102.1
Average Noise Level of D. G. Set under study at 0.5 meter distance - While Acoustic Room closed		74.2

Opinions / Interpretations: *The insertion loss of 27.9 dB(A) achieved at a distance 0.5 meter away from an Acoustic Room resulting in source noise level being reduced to 74.2 dB(A) from 102.1 dB(A) due to acoustic effect of a room which comply with standard requirement. [Refer Noise Limit for Generator Sets run with Diesel were notified by Environment (Protection) second Amendment Rules vide GSR 371(E), dated 17th May 2002 at serial no.94 and its amendments under the Environment (Protection) Act, 1986].*

Note: 1. Monitoring area coming under Industrial Area.
 2. Reference parallelepiped method is used to measure noise level, detailed description of location and measurement points is presented in schematic diagram as Annexure-II

Sampling Equipment Details	Instrument Used	Make & Model	Calibration Status
	Sound Level Meter	Make - 3M SOLUTIONS; Model - SE-402 CLASS 2, Sr. No. SE40210809	Valid up to - 30/12/2021

Note: 1. This test report refers only to the monitoring conducted.
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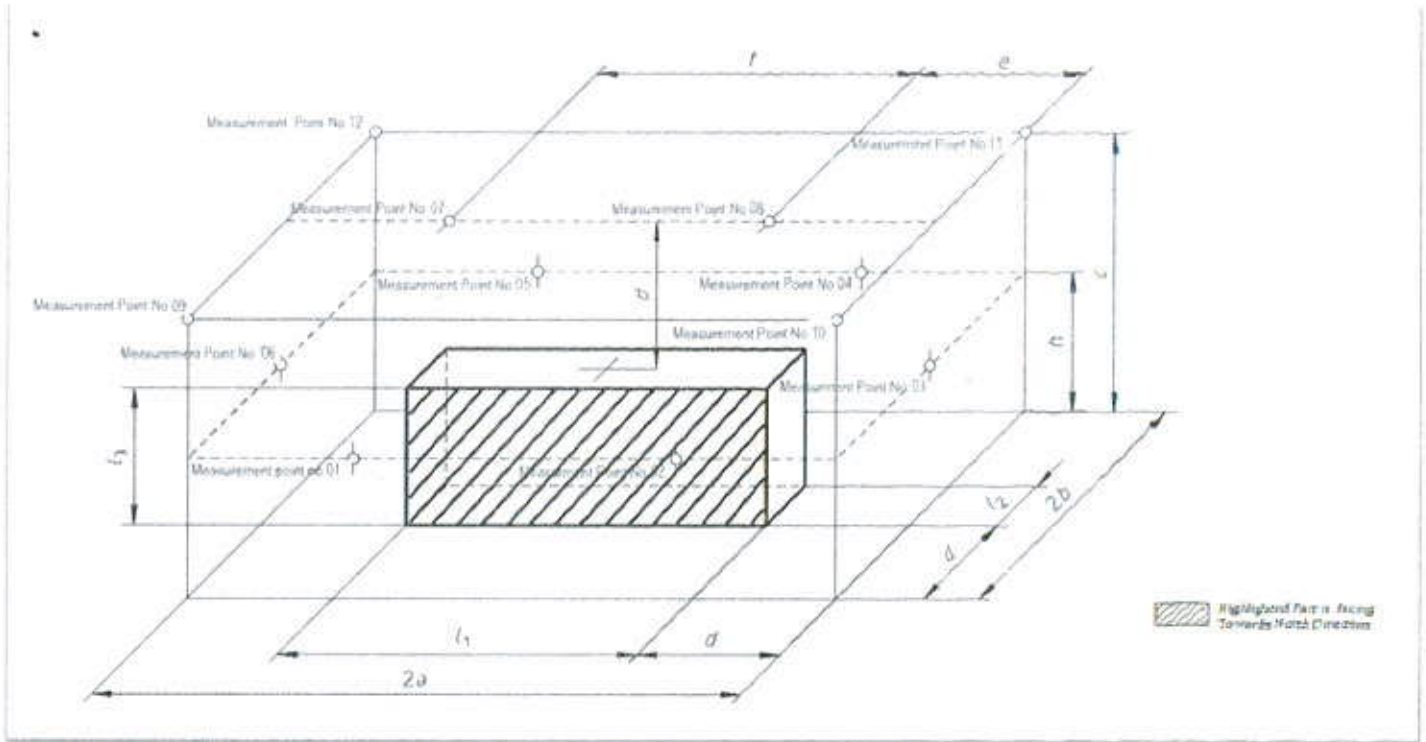
- END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)

ANNEXURE-III

DETAILED DESCRIPTION OF LOCATION AND MEASUREMENT POINTS



Dimensions of D. G. Set: $L \times B \times H \sim l_1 \times l_2 \times l_3 = 11.0 \text{ meter} \times 10.0 \text{ meter} \times 8.0 \text{ meter}$

Distance in meter at measurement done from acoustic enclosure (d) in meters	Calculation of Dimension of Reference Parallelepiped & placement of Measurement points in meters			
	Length of Parallelepiped $(2a) = 2 \times \left[\left(\frac{l_1}{2} \right) + d \right]$	Breadth of Parallelepiped $(2b) = 2 \times \left[\left(\frac{l_2}{2} \right) + d \right]$	Height of Parallelepiped (c)= $l_3 + d$	Height of Measurement Point (h)= $\frac{c}{2}$
0.5	12.0	11.0	8.5	4.2

