

Ref. No. ENV/ Nagpur/December-2021-22

Date:31th December 2021

To.

Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building Civil Lines, Nagpur-440001

Sub :Environmental Clearance for 25 MW Lean Gas Based Power Plant as well as EC for Carbon Black Plant (1,20,000 TPA) at Patalganga, Dist: Raigad, Maharashtra.

Ref

- 1) Environmental Clearance Letter No. J-13011/35/2007-IA.II (T) dated September 28, 2007,
- 2) Environmental Clearance Letter No. J-11011/35/2007 IA II (I) dated 22nd March 2013

Respected Sir,

In reference to the above referred letter of your highly revered office we would like to clarify submit the Current Status of our construction work and Point wise compliance status to various stipulations laid down by the Ministry in its clearance letter No. J- 13011/35/2007-IA.II(T) & J-11011/35/2007 IA II (I) along with the necessary enclosure and annexure.

This is for your kind consideration and records. Kindly acknowledge the same.

Thanking you,

Yours Sincerely,

For, Birla Carbon India Private Limited (Unit – Patalganga)

Authorised Signatory

CC:

- 1) MoEF Delhi
- 2) MPCB, Sion
- 3) CPCB, Delhi

Encl:

Part A: Current Status of Construction Work.

Part B: Point wise compliance status.

Part C: Enclosures.

Part D: Annexure.

Birla Carbon India Private Limited

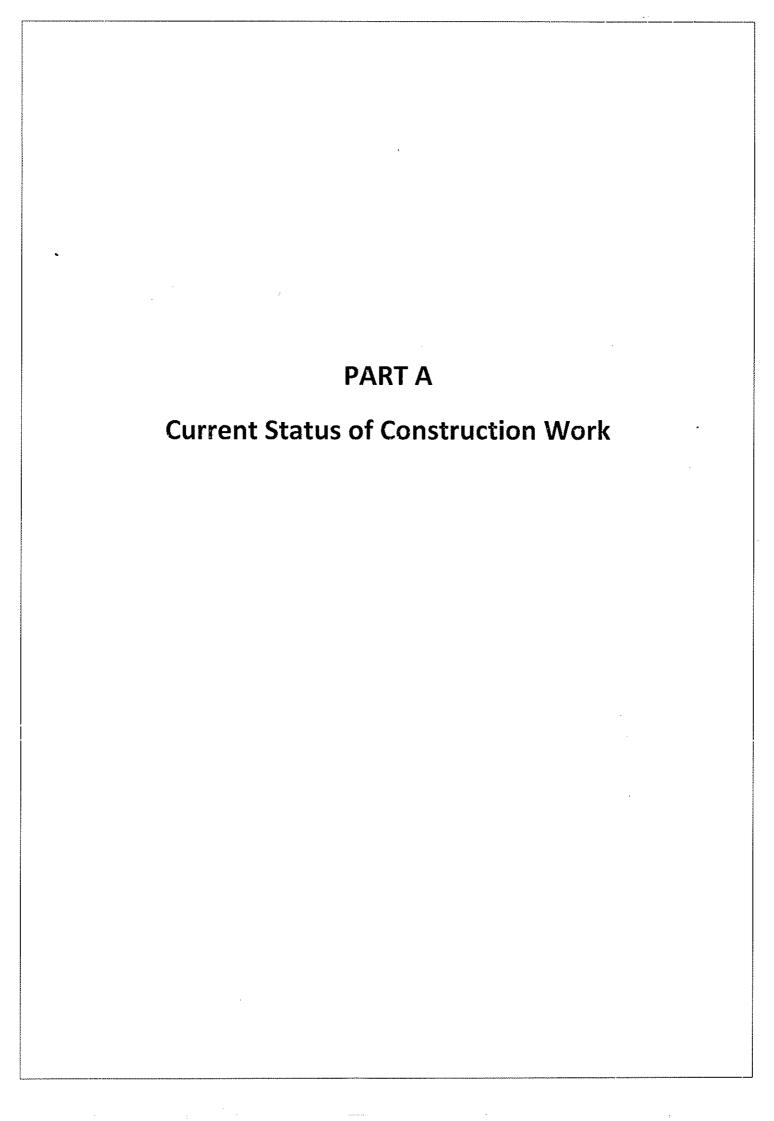
[Formerly known as SKI Carbon Black (India) Private Limited]

Unit: Patalganga, Village: Lohop-Talvali,

Taluka: Khalapur, District: Raigad – 410207, Maharashtra, India Telephone: +91 9702436333, 9702245353, Email: info@adityabirla.com

-: LIST OF ENCLOSED DOCUMENTS:-

SR. NO.	PARTICULARS	ENCLOSURE
PART A	CURRENT STATUS OF WORK	
PART B	POINT WISE COMPLIANCE STATUS	
PART C	ENCLOSURE	
1	Data Sheet in Format	Enclosure-1 with Part-I, Part-II & Part- III
2	Environmental Clearance Copy for Electricity	Enclosure-2
3	Environmental Clearance Copy for Carbon Black	Enclosure-3
4	Consent to Operate from Maharashtra Pollution Control Board	Enclosure-4
PART D	ANNEXURE	
1	Air Pollution Control Details	Annexure -1
2	RWH Details	Annexure -2
3	Facilities provided for the workers / Contractors/ Drivers	Annexure -3
4	Green belt development plan	Annexure -4
5	Monitoring report	Annexure -5
6	Advertisement copy	Annexure-6
7	EMP and DMP	Annexure -7
8	Funds spent on Environmental Protection measures	Annexure -8
9	MWML certificate of registration	Annexure - 9



CURRENT STATUS OF WORK

Status of construction

: Construction is completed for 84000 MT/A of Carbon Black production out of 1200000 MT/A

Date of commencement

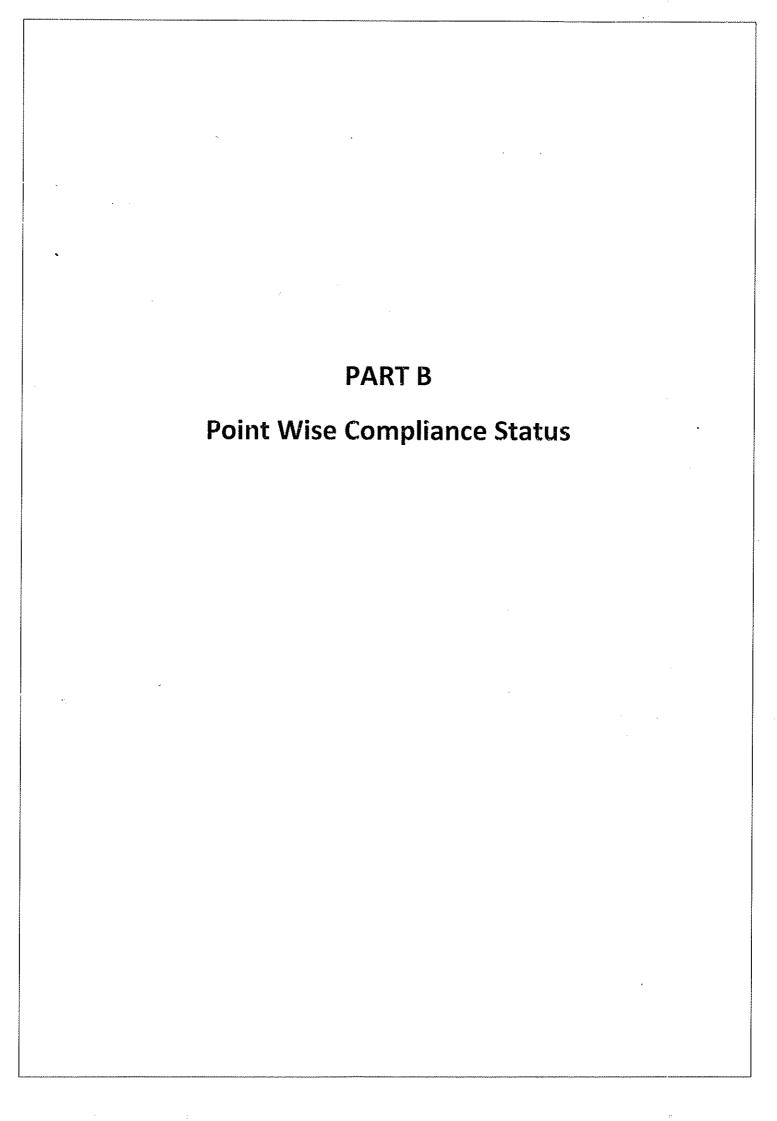
: Not Applicable

(Actual and/or planned)

Date of completion

: Planned 25.08.2025

(Actual and/of planned)



: PART B:

POINT-WISE COMPLIANCE STATUS

Point-Wise Compliance Status to Various Stipulations Laid Down by the Ministry of Environment and Forests in its Clearance Letter No. J-13011/35/2007-IA.II (T) dated 28.09.2007 as follows.

Sr. No	Condition	Status
1	The environmental clearance for the main carbon black plant, as applicable shall be obtained separately.	Carbon Black Environment Clearance received with J-11011/35/2007-IA-II (I) dated 22.03.2013
2	Lean gases generated from existing process plant shall only be utilized. No other fuel shall be used for the power plant.	Lean gases generated from existing process plant is only utilized for cogeneration. No other fuel is used.
3	Effective safeguard measures shall be taken to ensure that the SPM levels do not exceed the prescribed standards.	Air Pollution Control Equipment are provided. Details given in Annexure – 1
4	A stack of 103 Meter height with exit velocity of at least 13.85m/s shall be provided with continuous online monitoring system for disposal of waste gases.	Stack of 108 meter is constructed and in operation.
5	Closed circuit cooling system with cooling towers shall be provided. COC of at least 8 shall be adopted.	Complied.
6	Rain water harvesting shall be practiced. A detailed scheme for Rain Water Harvesting shall be prepared in consultation with Central Ground Water Authority / State Ground water Board and a copy of the same shall be submitted within three months to Ministry.	Collection from reservoirs and clarifier already implemented. For RWH please refer Annexure – 2.
7	First-aid and sanitation arrangements shall be made for the drivers and other contractors during construction phase.	Complied. Facilities provided for the workers / Contractors / Drivers Annexure – 3.
8	Leq of noise level should be limited to 75 dB (A) and regular maintenance of equipment be undertaken.	Maintenance of equipment's is carried out at regular intervals to maintain their performance. New initiatives are being taken to further reduce the noise levels.

9	Greenbelt shall be developed all around the plant boundary covering 1/3 of the project area.	We have already planted 10000 trees and approximately 20 acre is covered under green belt. Additionally we are going to plant 3000 more trees and cover rest of available open area under Green Belt development plan. Refer Annexure- 4
10	Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry.	Regular monitoring of the ambient air quality, Noise and Water Samples is being carried out. And the reports of the same submitted to MPCB on monthly basis Please refer Annexure- 5.
11	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language Of the locality concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Public notice has been published in English in Indian Express and in Marathi in Sakal daily on 13/10/2007 intimating about the Environmental Clearance issued for the project by MoEF. For this please refer Annexure- 6.
12	A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.	Environmental Management Plan and Disaster management plan is made. Details Given in Annexure –7.
13	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry, its Regional Office at Nagpur, CPCB and SPCB.	Noted and complied.
14	Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of tie stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan shall be forwarded to the Regional Office for their use during monitoring.	Noted.

15	Separate funds should be allocated for	Earmarked funds have been spent on
-	implementation of environmental protection	environmental protection measures
	measures along with item-wise break-up. This cost should be included as part of tine project cost. The	towards capital cost for bags filters,
	funds earmarked for the environment protection	RO plant, Triple effect evaporators,
	measures should not be diverted for other	vent scrubbers, stacks. Refer Annexure 8
	purposes and year-wise expenditure should be	Annexure 8
16	reported to the Ministry. Full cooperation should be extended to the	Full cooperation shall be extended to
	Scientists/Officers from the Ministry/Regional	the all statutory bodies which will be
	Office of the Ministry at Bhopal/the CPCB/the SPCB	monitoring the compliance of
	who would be monitoring the compliance of	environmental status.
47	environmental status.	
17	The Ministry reserves the right to revoke the clearance if conditions stipulated are not	Noted
	implemented to the satisfaction of the Ministry.	
18	The environmental clearance accorded shall be	Noted.
	valid for a period of 5 years to start of production	Noted.
	operations by the power plant.	
19	In case of any deviation or alteration in the	Noted.
	proposed project from those submitted to this	
	Ministry for clearance, a fresh reference should be	
	made to the Ministry to assess the adequacy of the	
	condition(s) imposed and to incorporate additional	
	environmental protection measures required, if	
20	any.	
20	The above stipulations shall be enforced among	Noted.
	others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and	
	Control of Pollution) Act, 1981, the Environment	
	(Protection) Act, 1986, The	
	Manufacture, Storage and Import of Hazardous	
	Chemicals Rules, 1989, the Public Liability	
	Insurance Act, 1991 and rules there under.	

: PART B:

POINT-WISE COMPLIANCE STATUS

Point-Wise Compliance Status to Various Stipulations Laid Down by the Ministry of Environment and Forests in its Clearance Letter No. J-11011/35/2007-IA.II (I) dated 22.03.2013 as follows.

Sr. No	Condition	Status
	Specific Conditions-	
1	Permission and recommendations of the State Forest Department regarding impact of the proposed plant on the reserve forests located near to 4 nos. of reserve forests shall be obtained and recommendations shall be implemented satisfactorily. Copy of permission shall be submitted to the respective Regional Office.	Permission obtained. Copy submitted to regional office
2	As proposed, vent scrubber in the reactor area, main bag filter in the product separation area, process bag filter in the pelletizing area, purge gas filter in the product drying area, dryer combustor in the dryer area and packing exhaust filter in the packing area shall be provided to control air emissions	All proposed equipment's in respective area provided
3	The gaseous emissions (SO ₂ , NOx, CO and HC) and particulate matter from existing and proposed boiler, dryer, purge gas filter, packing exhaust filter units shall conform to the norms prescribed by the Central Pollution Control Board (CPCB)/Maharashtra Pollution Control Board (MPCB) from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly	Noted. Regular monitoring is done by MoEF Approved laboratory Annexure - 5
4	Continuous stack monitoring of stacks for SO2, NOx and CO and recording facilities shall be installed along with interlocking facilities. As proposed, particulate matter shall be monitored in the stack manually. Data for particulate matter, SO ₂ , NO and CO shall be displayed on web as well as outside the premises at prominent place for public viewing.	Noted. Online monitoring of SO ₂ and NO _x are installed. Online CO monitoring and Environment data display on website started from October 2013

5	As proposed, this being an existing plant Sulphur content in the feed stock i.e. Carbon Black Feed Stock (CBFS) shall not exceed 2.5% at any time	Same is ensured
6	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009.	Complied. Reports attached for reference Annexure -5
7	Poly-Aromatic Hydrocarbon (PAH) shall be monitored in fugitive dust emission area particularly in Packaging Plant. Data shall be properly monitored, recorded, and submitted to the Ministry's Regional Office at Bhopal.	PAH monitored from the packing plant and reports attached vide Annexure -5
8	Industrial exhaust and proper ventilation shall be provided in packaging plant area	Provided
9	The levels of PM ₁₀ , SO ₂ , NOx, CO and HC (Nonmethane) shall be monitored in the ambient air. Data of stack monitoring and ambient air shall be displayed on web as well as outside the premises at prominent place for public viewing. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and MPCB.	Noted. Online monitoring of SO ₂ and NO _x , CO installed, and Environment data display on website started from October'2013. Annexure: for data monitoring of levels of PM ₁₀ , SO ₂ , NOx, CO and HC (Non-methane) in the ambient air is enclosed vide Annexure -5
10	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the MPCB.	All processes are in closed handling and DCS controlled. To control dust emissions, Dust collection system in Product Packing area is being further strengthened Regular monitoring of the ambient air quality, Soil, Noise and Water Samples is being carried out. And the report of the same submitted to SPCB on monthly basis Please refer Annexure -5 Unloading area handles Liquid raw Material. The area is fully concreted. There is an oil skimmer to collect Liquid spillages, if any. The product area has got cleaning facilities. MPCB limits are complied.
11	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Acoustic enclosure provided for the DG. As per CPCB standard, its stack height is 43 mtr.

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12	Total fresh water requirement from Patalganga River shall not exceed 4000 m³/day. No ground water shall be used. Steps should also be identified to conserve water and measures adopted for minimizing the same.	No water extracted from the ground and also we complied the rain water harvesting project to conserve the rain water please refer Annexure – 02 Studies are underway to assess the feasibility of collecting Hill side water.
13	Effluent generated shall be treated in the ETP comprising RO and rejects shall be concentrated in MEE. Permeate from RO and condensate shall be recycled / reused in the cooling tower make up water. Oil water stream shall be treated in Oil water separator. Sewage shall be treated in sewage treatment plant (STP) and treated wastewater shall be used for cooling water make up. Treated effluent shall be recycled / reused within the factory premises. Treated effluent quality shall be monitored regularly and conform to the norms prescribed by the CPCB/MPCB from time to time.	Treated effluent quality is checked on regular basis reports attached vide Annexure -5
14	No treated process effluent shall be discharged outside the premises and Zero discharge shall be ensured.	No effluent discharged outside our premises. Zero discharge ensured.
15	Process effluent/any wastewater shall not be allowed to mix with the storm water. Storm water drain shall be passed through guard pond	Guard pond provided
16	All the solid/hazardous waste including ETP sludge and waste oil shall properly stored at the site as per CPCB guideline. Fine carbon particles generated as solid waste shall be sold to industries for manufacturing low grade rubber goods. MEE sludge shall be sent to TSDF. Oily waste from oil removal tank shall be mixed along with carbon black feed stock and burnt in the furnace.	Separate covered Hazardous waste storage facility is provided within the factory premises
17	Proper and valid authorization and membership shall be obtained from the concerned authorities for the management of solid/hazardous waste and a copy submitted to the Ministry's Regional Office at Bhopal	Authorization and membership obtained (MWML) Annexure-9
18	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Noted.

19	Proper housekeeping shall be maintained and no spillage of Carbon Black shall be permitted. Preventive measures shall be taken to avoid and prevent any accidental release of Carbon Black to	Good Housekeeping Practices within our factory premises are followed. Preventive measures to avoid Carbon spillage are implemented
20	the environment. The company shall undertake following waste minimization measures: a. Metering and control of quantities of active ingredients to minimize waste	a. Followed b. By products are used a raw materials for other process
	 b. Reuse of by products from the process as raw materials or as raw material substitutes in other processes c. Use of automatic filling to minimize 	c. Automatic filling is used in for finished product Packing d. Close Feed system is used for feeding raw material and other
	spillage d. Use of Close feed system into batch reactor e. Use of high pressure hoses for equipment cleaning to reduce waste water generation	materials into the process e. High pressure hoses are used for cleaning.
21	A proper occupational health monitoring system should be implemented for all personnel / workers in the plant / laboratory and other areas which may have an impact on their health.	Pre-employment medical examination as well as routine periodic medical examination is in practice
22	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the OISD 117 norms.	Noted. Firefighting system is in place as applicable to our industry. A pressurized network and also a set of Dry fire extinguishers are in place.
23	All the workers involved in packing of Carbon Black in Packaging Plant area shall use (PPE) and masks to avoid direct exposure to Carbon Black dust.	Good quality PPE'S provided in packing area
24	All the workers shall be regularly monitored for occupational health for relevant parameters pertaining to industry specific and records maintained.	Periodically medical checkup for workers is in practice and records are maintained.
25	Proper energy conservation measures shall be adopted and a report submitted to the Ministry and its Regional Office at Bhopal.	Energy conservation measures adopted in year 2012-2013 send to Regional office MoEF Bhopal on 19.04.2013
26	As proposed, green belt shall be developed in 21.5 acres out of 65 acres of total land Selection of plant species shall be as per the CPCB guidelines.	We are having the green belt development programme, find the attachment as per Annexure – 4 We shall further extend our green belt on available open area
27	All the recommendations/standards mentioned in the CPCB guidelines for the Carbon Black manufacturers shall be implemented.	Noted and Complied

28	Company shall prepare Corporate Environment Policy as per the Ministry's G.M. No. J-11013/41/2006-IAII(I) dated 26 th April, 2011 within one month from date of issue of letter and submitted to the Ministry's Regional Office.	prepared and send to Regional office MoEF Bhopal on 19.04.2013
29	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Noted & Complied during project stage
•	General Conditions-	
30	The project authorities shall strictly adhere to the stipulations made by the Maharashtra Pollution Control Poard.	Same is adhered
31	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any	Noted
32	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Four Ambient Air Quality monitoring stations are installed
33	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	DG Sets are provided with acoustic enclosure as well as steam vents of power plant is having provision of silencers to reduce the noise. Noise levels are continuously monitored. Monitoring reports attached vide Annexure:5

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34	•	Complied. We have installed rain water harvesting system for
	The Company shall harvest rainwater from the roof	warehouse, TG, Admin building roof.
	tops of the buildings and storm water drains to	We are collecting it and sending in
	recharge the ground water and use the same water	our raw water pond for reuse. Ground
	for the process activities of the project to conserve	water recharging is not possible
	fresh water.	because of rocky surface.
35	Training shall be imparted to all employees on	EHS Trainings are regular practice in
	safety and heaith aspects of chemicals handling.	the plant
	Pre-employment and routine periodical medical	·
	examinations for all employees shall be undertaken	
	on regular basis. Training to all employees on handling of chemicals shall be imparted.	
36	The company shall also comply with all the	Noted
	environmental protection measures and safeguards	·
	proposed in the documents submitted to the	
	Ministry. All the recommendations made in the	
	EIA/EMP in respect of environmental management,	
	risk mitigation measures and public hearing relating	
 	to the project shall be implemented.	
37	The company shall undertake all relevant measures	CSR activities are going on in near
	for improving the secio-economic conditions of the	by villages,
	surrounding area. CSR activities shall be	
	undertaken by involving local villages and	
20	administration.	To developmental and assessing
38	The company shall undertake eco-developmental	Eco-developmental and community welfare measures are taken under
	measures including community welfare measures in	CSR Programme
	the project area for the overall improvement of the	CSIC Flogrammic
	environment.	
39	A separate Environmental Management Cell	Noted. In-house, we have partial
	equipped with full-fledged laboratory facilities shall	capacity for monitoring environment
	be set up to carry out the Environmental Management and Monitoring functions.	data such as pH, PM ₁₀ , TDS, Conductivity, Temperature,
	Management and Monitoring functions.	Chlorides, Silica, Free chlorine, Oil
		& grease, phosphate. Other
		environmental data are taken through
		an MoEF approved Lab.
40	The company shall earmark sufficient funds	Find the Enclosure 1,-Part 3
	towards capital cost and recurring cost per annum	·
	to implement the conditions stipulated by the	
	Ministry of Environment and Forests as well as the	
	State Government along with the implementation	
	schedule for all the conditions stipulated herein.	
	The funds so earmarked for environment	
	management/ pollution control measures shall not	
	be diverted for any other purpose.	

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41	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom	EC Copies to all local bodies are submitted
	suggestions/ representations, if any, were received while processing the proposal.	
42	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated	Status reports being submitted regularly and Report display or
,	Environmental Clearance conditions including results of monitored data (both in hard copies as	website is made available.
	well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and	
	MPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on	
	the website of the company.	
43	The environmental statement for each financial year ending 31 st March in Form V as is mandated shall	Complied and Form V displayed of Website
	be submitted to the concerned State Pollution Control Board as prescribed under the Environment	
	Protection Rules, 1986 as amended subsequently shall also be put on the website of the company	
	along with the status of compliance of environment	
	clearance conditions and shall also be sent to the respective Regional Offices of MOEF by email.	
44	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the	Complied, Public notice has been published in Marathi in Krushiva and Sakal daily on 30/03/2013
	clearance letter are available with the SPCB/Committee and may also be seen at Website	intimating about the Environmenta Clearance issued for the project by
	of the Ministry at http://envfor.nic.in This shall be advertised within seven days from the date of issue	MoEF. For this please refe Annexure- 6.
	of the clearance letter, at least in two local newspapers that are widely circulated in the region	
	of which one shall be in the vernacular language of	
	the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of	
45	the Ministry. The project authorities shall inform the Regional	Construction phase of the Project i
	Office as well as the Ministry, the date of financial closure and final approval of the project by the	completed
	concerned authorities and the date of start of the project.	·

PART C Enclosures

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS MINISTRY OF ENVIRONMENT & FOREST WESTERN REGION, REGIONAL OFFICE, NAGPUR

DATA SHEET

Date: 26th Dec 2022

1.		ject type: River - valley/ Mining /	:	Carbon Black manufacturing
<u> </u>		ustry / Thermal / Nuclear / Other (specify)	<u> </u>	Thermal – cogeneration
2.		ne of the project	<u> :</u>	Birla Carbon India Private Limited
3.	Cle	arance letter (s) / OM No. and Date	•	 EC for power plant:- J- 13011/35/2007-IA.II(T) dt. September 28,2007 EC for Carbon Black plant:- J- 11011/35/2007-IA-II (I) dt. 22nd March 2013.
4.	Loc	eation:		L
	а.	District (S)	:	Raigad
	b,	State (s)	1:	Maharashtra
	c.	Latitude/ Longitude	:	Latitude – 18 deg. 51 'N Longitude – 73 deg 12 'E
5.	Ad	dress for correspondence		
	a. b.	Address of Concerned Project Chief Engineer (with pin code & Telephone / telex / fax numbers Address of Executive	•	Mr. Sambit Rath Sr. Manager - Project M/s. Birla Carbon India Pvt. Ltd. VILLAGE: LOHOP, TALVALI, PATALGANGA, TALUKA: KHALAPUR, DIST. RAIGAD – 410 207 MAHARASHTRA, INDIA. Phone 021922202050 Same As Above
6.	Sol	Project: Engineer/Manager (with pincode/ Fax numbers) ent features		
V.	a.	of the project		PART –I –Project Details
***************************************	b.	of the environmental management plans	:	PART -II - EMP
7.	+	Break up of the project area:	•	ATAKA II - DIVII
	a.	submergence area forest & non-forest	:	Not applicable
	b.	Others	;	PART –I – Project Details
8.	with dwe both	ak up of the project affected Population nenumeration of Those losing houses / elling units Only agricultural land only, n Dwelling units & agricultural Land & lless labourers/artisan	•	Not Applicable.

	a.	SC, ST/Adivasis	T:	Not Applicable							
	Ъ.	Others .	1:	Not Applicable							
		(Please indicate whether these Figures	`								
		are based on any scientific And									
		systematic survey carried out Or only									
	,	provisional figures, it a Survey is carried									
		out give details And years of survey)									
9.	Financial details:										
	a. Project cost as originally planned and subsequent revised estimates and the year of										
		price reference:									
	í.	Total Cost of the Project	T :	Rs. 490.00 Crores							
	b.	Allocation made for environ-mental	1:	Rs. 22.47 Crores							
 		management plans with item wise and		PART –III - Allocation made for							
		year wise Break-up.		environ-mental management plan							
	c.	Benefit cost ratio / Internal rate of	† 								
		Return and the year of assessment	*								
	d.	Whether (c) includes the	:	Yes							
		Cost of environmental management as		·							
		shown in the above.									
~~	е.	Actual expenditure incurred on the	1:	Rs 341 Crores Only.							
		project so far									
	f.	Actual expenditure incurred on the	:	Rs. 22.47 Crores Only.							
		environmental management plans so far.		·····							
10.	Forest land requirement			Not Applicable							
	a.	The status of approval for diversion of	:	Not Applicable							
		forest land for non-forestry use.		••							
	b.	The status of clearing felling	:	Not Applicable							
	c.	The status of compensatory	:	Not Applicable							
		afforestation, it any.		••							
	d.	Comments on the viability &	:	Not Applicable							
		sustainability of compensatory									
		afforestation program in the light of									
		actual field experience so far.									
11.		status of clear felling in Non-forest areas	:	Not Applicable							
		ch as submergence area of reservoir,		·							
	approach roads), it any with quantitative										
	information.										
12.	Status of construction:										
	a.	Date of commencement	:	Construction completed							
		(Actual and/or planned)									
	b.	Date of completion	:	Construction completed							
		(Actual and/or planned)									
13.	Rea	sons for the delay if the Project is yet to	:	Not Applicable							
	star										
14	Date	es of site visits :									

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	a.	The dates on which the project was monitored by the Regional Office on previous Occasions, if any	Ţ: 	No
	b.	Date of site visit for this monitoring report.	:	Not Applicable
15.	aut pla saf	tails of correspondence with Project horities for obtaining Action ns/information on Status of compliance to eguards Other than the routine letters for gistic support for site visits.	·	Not Applicable
	(The first monitoring report may contain the details of all the Letters issued so far, but the Later reports may cover only the Letters issued subsequently.)		•	Not Applicable

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No.J-13011/35/2007-IA.II(T) Government of India Ministry of Environment & Forests

Paryavaran Bhawan, CGO Complex, Lodi Road, New Delhi-11003.

Dated: 28th September, 2007

To.

M/s Hi-Tech Carbon (A Unit of Aditya Birla Nuvo Ltd) Ahura Centre, 2nd Floor, Near MIDC Office Mahakali Caves Road, Andheri (E) Mumbai- 400 093, Maharashtra

Sub: 25 MW Lean Gas based Power Project at Patalganga, District Raigad, Maharashtra by M/s Hi-Tech Carbon- Environmental Clearance regarding.

Sir,

The undersigned is directed to refer to your communication no. nil dated 28^{th} May, 2007 on the above mentioned subject.

- 2. The proposal is for setting up of a 25 MW Lean Gas based Cogeneration Power Project at Patalganga, District Raigad, Maharashtra. The land requirement for the power plant is estimated as 11 acres. The water requirement including the carbon black plant is estimated as 7200 m3/day, which will be obtained from Patalganga river. No National Park/Sanctuary is reported within 10 km of the project area. Public hearing was held on 22.05.2007.
- 3. The proposal has been considered in accordance with para 12 of the EIA Notification dated 14th September, 2006 read with para 2.2.1 (i) (a) of the Circular No. J-11013/41/2006-IA.II(I) dated 13.10.2006. Based on the recommendations of the Expert Appraisal Committee for Thermal Power and Coal Mine Projects, the Ministry of Environment & Forests hereby accords environmental clearance to the

said 25 MW cogeneration power project under the provisions of EIA Notification 2006, subject to implementation of the following terms and conditions:-

- (i) The environmental clearance for the main carbon black plant, as applicable, shall be obtained separately.
- (ii) Lean gases generated from the existing process plant shall only be utilized. No other fuel shall be used for the power plant.
- (iii) Effective safeguard measures shall be taken to ensure that the SPM levels do not exceed the prescribed standards.
- (iv) A stack of 103 m height with exit velocity of at least 13.85 m/s shall be provided with continuous online monitoring system for disposal of waste gases.
- (v) Closed circuit cooling system with cooling towers shall be provided. COC of at least 8 shall be adopted.
- (vi) Rain water harvesting shall be practiced. A detailed scheme for rain water harvesting shall be prepared in consultation with Central Ground Water Authority / State Ground Water Board and a copy of the same shall be submitted within three months to the Ministry.
- (vii) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (viii) Leq of noise level should be limited to 75 dBA and regular maintenance of equipment be undertaken. For people working in the high noise areas, personal protection devices should be provided.
- (ix) Greenbelt shall be developed all around the plant boundary covering 1/3 of the project area.
- (x) Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry.
- (xi) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days of

Issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in.

- (xii) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
- (Xiii) Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry, its Regional Office at Bhopai, CPCB and SPCB.
- (XIV) Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan shall be forwarded to the Regional Office for their use during monitoring.
- (xv) Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. This cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
- (xvi) Full cooperation should be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bhopal/the CPCB/the SPCB who would be monitoring the compliance of environmental status.
- 4. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.
- 5. The environmental clearance accorded shall be valid for a period of 5 years to start of production operations by the power plant.
- 6. In case of any deviation or alteration in the proposed project from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
- 7. The above stipulations shall be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, The

Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, the Public Liability Insurance Act, 1991 and rules there under.

> (Dr. S.K. Aggarwal) Director

Copy to:

- The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New 1. Delhi-110001.
- The Secretary, Department of Energy and Environment, Govt. of Maharashtra, 2 Mantralaya, Mumbai-400032, Maharashtra.
- The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New 3. Delhi-110066.
- The Chairman, Maharashtra Pollution Control Board, Kalptaru point 3rd & 4th Floor Sion Matunga Scheme Road No. 8,Opp. Cine Planet Cinema, near Sion Circle, Sion(East), Mumbai-400022 - with request to display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's office for 30 days.
- The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-5, Office Complex, East Arjun Nagar, Delhi-110032.
- The Chief Conservator of Forests, Western Regional Office, Ministry of 6. Environment & Forests, E-3/240, Arera Colony, Bhopal-462016.

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- 7. Director (EI), MOEF
- 8. Guard file,
- 9. Monitoring file.

(Dr. S.K. Aggarwal) Director

F. No. J-1101 I/35/2007- IA II (I) Government of India Ministry of Environment and Forests (I.A. Division)

ParyavaranBhawan CGO Complex, Lodhi Road New Delhi – 110 003

E-mail: aditya.narayan@nic.in Telefax: 011: 2436 0549

Dated 22nd March, 2013

To.

M/s Hi-Tech Carbon (A Unit of Aditya Birla Nuvo Ltd.) Ahura Centre, 2nd Floor, Near MIDC Office Mahakali Caves Road, Andheri (E) Mumbai-400 093. Maharashtra

E-mail: htcmum@adityabirla.com

Subject: Carbon Black Plant (1,20,000 TPA) at Patalganga, District Raigad, Maharashtra by M/s

Hi-Tech Carbon - Environmental Clearance reg.

Ref. : Your letter no. HTC/PTG/UH/MPCB/EC/001 dated 18th March, 2011

Sir,

Kindly refer to your letter dated 18th March, 2011 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, ElA/EMP Report and subsequent clarification/additional information submitted vide letter dated 21stJuly, 2011 regarding above mentioned project.

- 2.0 The Ministry of Environment and Forests has examined the application. It is noted that the proposal is for an integrated Carbon Black Manufacturing Unit alongwith CPP (25 MW) at Patalganga, District Raigad, Maharashtra. This is an operational unit. Environmental clearance for CPP (25 MW) was accorded by the Ministry vide letter no. J-13011/35/2007-IA-II(T) dated 28th September, 2007. Total plot area is 65 acres. Total project cost is Rs. 470 Crores. Patalganga and Balganga rivers are flowing in the study area. 4 nos. of reserve forests are located within 10 km.
- 3.0 Ventury scrubber (4 Nos.) are provided in the reactor area. Bagfilter (2 Nos.) are provided in the product separation area. Process bagfilter (3 Nos.) are installed in the pelletising area. Purge gas filter, Dryer combustor, packing exhaust filter and boiler combustor are installed in the product drying area, dryer area, packing area and boiler area respectively. Total fresh water requirement from Patalganga River will 4000 m³/day. Industrial effluent generation will be756 m³/day and treated in the effluent treatment plant (ETP) comprising reverse osmosis (RO) and rejects will be concentrated in multiple effect evaporators (MEE). Permeate from RO and condensate will be recycled/reused in the cooling tower make up water. Oil water stream will be treated in oil water separator. Sewage will be treated in sewage treatment plant (STP). Treated effluent will be recycled/reused within the factory premises. No effluent will be discharged outside the premises and 'Zero' discharge concept will be adopted. ETP sludge and MEE sludge will be sent to the treatment storage disposal facility for hazardous waste (TSDF). Oil sludge will be mixed with carbon feed stock and burnt in the furnace.
- 4.0 Public hearing was exempted as per Section 7 (ii) of EIA Notification, 2006.
- 5.0 All the carbon black manufacturing units are covered under petrochemical based processing units and listed at S.N. 5(e) under Category 'A' due to location outside notified industrial area and appraised at the central level.

- 6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 24th and 33rd meetings held during 22nd-23rd June, 2011 and 21st-22nd March, 2012 respectively. The Committee recommended the proposal for environmental clearance. **M/s Hi-Tech Carbon** passed a resolution in a meeting of the Board of Directors held on 13.07.2012 that violation of the Environmental (Protection) Act, 1986 will not be repeated. A copy of Board Resolution is Annexed. Maharashtra Pollution Control Board has filed a regular criminal complaint (No. 33/2013) against the Company for commencing construction activities without environmental clearance.
- 7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

- i) Permission and recommendations of the State Forest Department regarding impact of the proposed plant on the reserve forests located near to 4 nos. of reserve forests shall be obtained and recommendations shall be implemented satisfactorily. Copy of permission shall be submitted to the respective Regional Office.
- As proposed, vent scrubber in the reactor area, main bag filter in the product separation area, process bag filter in the pelletising area, purge gas filter in the product drying area, dryer combustor in the dryer area and packing exhaust filter in the packing area shall be provided to control air emissions.
- The gaseous emissions (SO₂, NOx, CO and HC) and particulate matter from existing and proposed boiler, dryer, purge gas filter, packing exhaust filter units shall conform to the norms prescribed by the Central Pollution Control Board (CPCB)/Maharashtra Pollution Control Board (MPCB) from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.
- iv) Continuous stack monitoring of stacks for SO₂, NO_X and CO and recording facilities shall be installed alongwith interlocking facilities. As proposed, particulate matter shall be monitored in the stack manually. Data for particulate matter, SO₂, NO_X and CO shall be displayed on web as well as outside the premises at prominent place for public viewing.
- As proposed, this being an existing plant Sulphur' content in the feed stock i.e. Carbon Black Feed Stock (CBFS) shall not exceed 2.5% at any time.
- vi) Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009.
- vii) Poly-Aromatic Hydrocarbon (PAH) shall be monitored in fugitive dust emission area particularly in Packaging Plant. Data shall be properly monitored, recorded, and submitted to the Ministry's Regional Office at Bhopal.
- viii) Industrial exhaust and proper ventilation shall be provided in packaging plant area.
- The levels of PM₁₀, SO₂, NOx, CO and HC (Non-methane) shall be monitored in the ambient air. Data of stack monitoring and ambient air shall be displayed on web as well as outside the premises at prominent place for public viewing. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and MPCB.

- x) In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the MPCB.
- xí) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- xii) Total fresh water requirement from Patalganga River shall not exceed 4000 m³/day. No ground water shall be used. Steps should also be identified to conserve water and measures adopted for minimizing the same.
- xiii) Effluent generated shall be treated in the ETP comprising RO and rejects shall be concentrated in MEE. Permeate from RO and condensate shall be recycled/reused in the cooling tower make up water. Oil water stream shall be treated in Oil water separator. Sewage shall be treated in sewage treatment plant (STP) and treated wastewater shall be used for cooling water make up. Treated effluent shall be recycled/reused within the factory premises. Treated effluent quality shall be monitored regularly and conform to the norms prescribed by the CPCB/MPCB from time to time.
- xiv) No treated process effluent shall be discharged outside the premises and Zero discharge shall be ensured.
- xv) Process effluent/any wastewater shall not be allowed to mix with the storm water. Storm water drain shall be passed through guard pond.
- xvi) All the solid/hazardous waste including ETP sludge and waste oil shall properly stored at the site as per CPCB guideline. Fine carbon particles generated as solid waste shall be sold to industries for manufacturing low grade rubber goods. MEE sludge shall be sent to TSDF. Oily waste from oil removal tank shall be mixed along with carbon black feed stock and burnt in the furnace.
- xvii) Proper and valid authorization and membership shall be obtained from the concerned authorities for the management of solid/hazardous waste and a copy submitted to the Ministry's Regional Office at Bhopal.
- xviii) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- xix) Proper house keeping shall be maintained and no spillage of Carbon Black shall be permitted. Preventive measures shall be taken to avoid and prevent any accidental release of Carbon Black to the environment.
- xx) The company shall undertake following waste minimization measures:
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c. Use of automated filling to minimize spillage.

- d. Use of Close Feed system into batch reactors.
- e. Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- A proper occupational health monitoring system should be implemented for all personnel / workers in the plant / laboratory and other areas which may have an impact on their health.
- xxii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the OISD 117 norms.
- xxiii) All the workers involved in packing of Carbon Black in Packaging Plant area shall use (PPE) and masks to avoid direct exposure to Carbon Black dust.
- xxiv) All the workers shall be regularly monitored for occupational health for relevant parameters pertaining to industry specific and records maintained.
- xxv) Proper energy conservation measures shall be adopted and a report submitted to the Ministry and its Regional Office at Bhopal.
- As proposed, green belt shall be developed in 21.5 acres out of 65 acres of total land. Selection of plant species shall be as per the CPCB guidelines.
- xxvii) All the recommendations/standards mentioned in the CPCB guidelines for the Carbon Black manufacturers shall be implemented.
- xxviii) Company shall prepare Corporate Environment Policy as per the Ministry's O.M. No. J-11013/41/2006-IA.II(I) dated 26th April, 2011 within one month from date of issue of letter and submitted to the Ministry's Regional Office.
- Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

B. GENERAL CONDITIONS:

- The project authorities shall strictly adhere to the stipulations made by the Maharashtra Pollution Control Board.
- No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers,

enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

- v. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vi. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
- viii. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.
- ix. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- x. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xi. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- xii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- xiii. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and MPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xiv. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
- xv. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at

http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

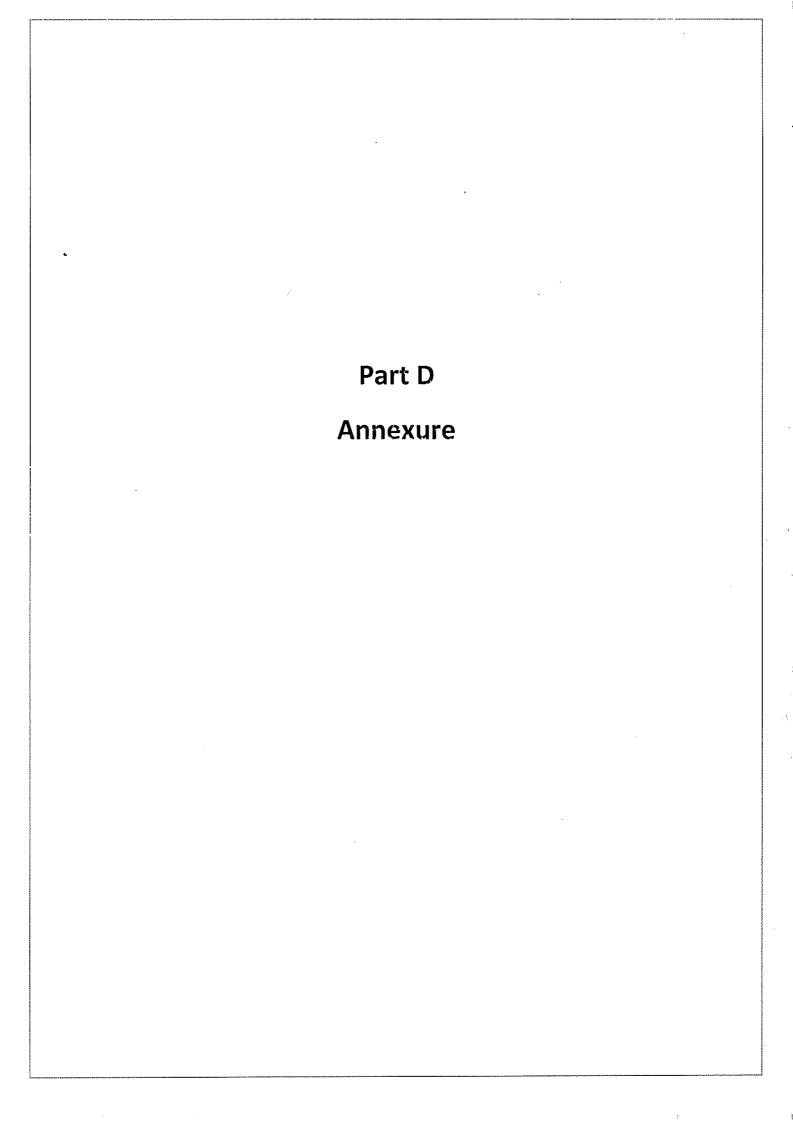
- xvi. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and tinal approval of the project by the concerned authorities and the date of start of the project.
- 8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 9.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
- 10.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

(A.N. Singh) Dy. Director (S)

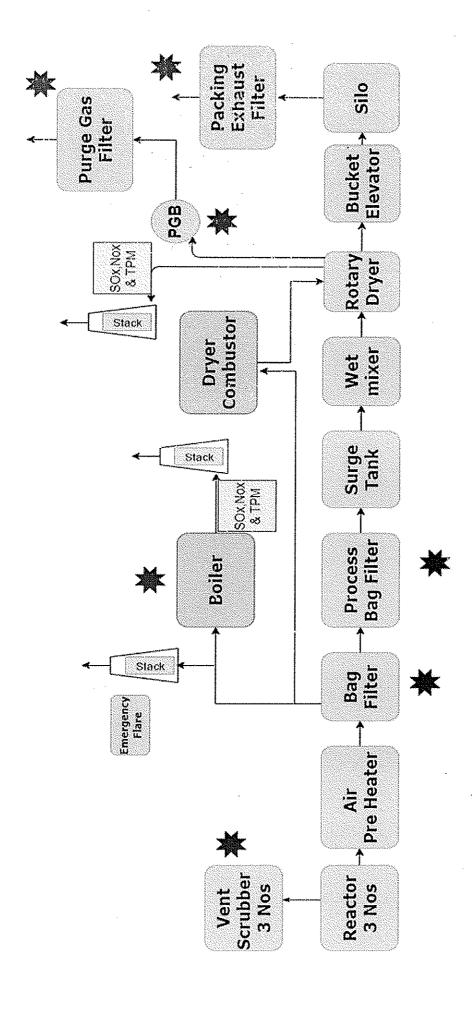
Copy to :-

- The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032
- 2. The Chief Conservator of Forests (Central), Kendriya Paryavaran Bhavan, Link Road No.3, Bhopal-462016.
- 3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi 110 032.
- 4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022.
- 5. The Joint Secretary, IA II(I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
- Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
- 7. Guard File/Monitoring File/Record File.

(A.N. Singh) Dy. Director (S)



AIR POLLUTION CONTROL EQUIPMENT & MONITORING



Continuous monitoring anlysers

Environment Protection Equipment

Scheme for Rain Water Harvesting in Warehouse, Birla Carbon India Private Limited.

Date: 26.12.2021

Introduction:

Rainwater harvesting (RWH) is the ancient practice of collecting rainwater and storing it for later use. RWH systems are comprised of a roof catchment, conveyance network, rainwater storage tank, pump, and fixtures where rainwater is utilized. Most systems also incorporate treatment technologies to improve the quality of rainwater before and/or after storage, and include provisions for periods of insufficient rainfall (a water make-up supply) and times of excessive rainfall (overflow provisions).

In our case we have considered case:

1) Roof top of Warehouse

Water from this source will be utilized in makeup of Reservoir pond.

Components of a rooftop rainwater harvesting system:

Rainwater harvesting systems generally consist of four basic elements:

- (1) a collection (catchment) area
- (2) a conveyance system consisting of pipes and gutters
- (3) a storage facility
- (4) a delivery system consisting of a tap or pump.
- (1) A collection or catchment: system is generally a simple structure such as roofs and/or gutters that direct rainwater into the storage facility. Roofs are ideal as catchment areas as they easily collect large volumes of rainwater.

The amount and quality of rainwater collected from a catchment area depends upon the rain intensity, roof surface area, type of roofing material and the surrounding environment.

In our case warehouse roof is collection or catchment.

(2) A conveyance system: is required to transfer the rainwater from the roof catchment area to the storage system by connecting roof drains (drain pipes) and piping from the roof top to one or more downspouts that transport the rainwater through a filter system to the storage tanks.

In our case existing drain pipes & proposed modified pipe routes is conveyance system.

(3) Storage tank: to store harvested rainwater for use when needed. Depending on the space available these tanks can be constructed above grade, partly underground, or below grade.

In our case underground water sump is storage tank

(4) Delivery system: which delivers rainwater and it usually includes pump, a pressure tank and a tap.

In our case transfer water pumps are delivery system

First flush and filter screen:

The first rain drains the dust, bird droppings, leaves, etc. which are found on the roof surface. To prevent these pollutants from entering the storage tank, the first rainwater containing the debris should be diverted or flushed before entering in cooling tower.

Screens to retain larger debris such as leaves can be installed in the down-pipe or at the sump inlet.

Design:

For design purpose we consider the peak rainfall in month of July in this region Patalganga.

1) Water collection in July from warehouse building Roof:

Total roof area: 84m x 47.4m= 3981.6m²

Run off Coefficient = 0.75(Roof is made of concrete & sheet)

Average July Rainfall in HTC =1500mm.

Water collection: $3981.6m^2 \times 1.5m \times 0.75 = 4480m^3/month of July$

 $4480\text{m}^3/31 \text{ days of July} = 144.5^3/\text{day} = 6\text{m}^3/\text{hr}.$

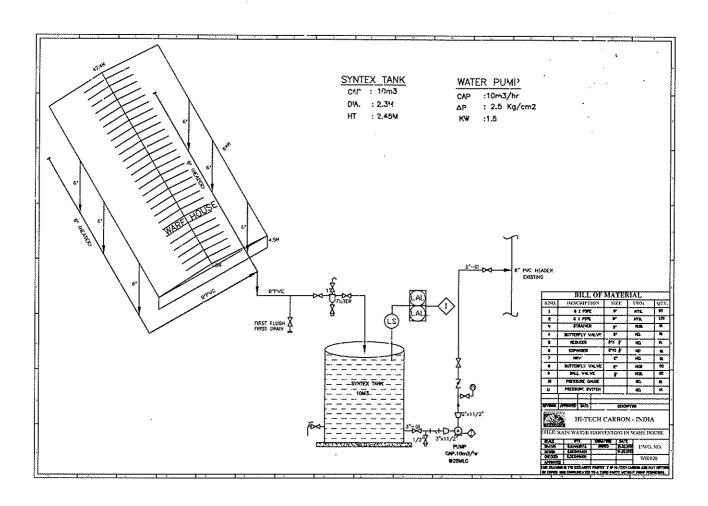
Considering two separate header of 8" PVC for collecting water from all sources of both side & line routed through a filter & isolation valve & one first rain drain connection towards water sump with slpoe 1;50.

Please refer details of line routing in P & ID.

Benefits of rainwater harvesting:

- · Rainwater is a relatively clean and free source of water
- Rainwater harvesting provides a source of water at the point where it is needed
- · it is owner-operated and managed
- It promotes self-sufficiency and conserves water resources
- Offers potential cost savings especially with rising water costs
- Provides safe water for human consumption after proper treatment
- Low running costs
- Construction, operation and maintenance are not labor-intensive.

Enclosure: P & ID & BOM.



ANNEXURE - 3

FACILITIES PROVIDED TO LABOUR

Project Name: Birla Carbon India Private Limited, (Unit-Patalganga)

Site Address: Village - Lohop and Talavali, Tal. - Khalapur, Dist. - Raigad, Maharashtra

Total Labour hutments = NIL

Total Labour approximate = 317

Facilities provided:

- 1. No of Toilets provided = 32
- 2. Drinking water = 13
- 3. Water tank for domestic and flushing Provided
- 4. Electricity is provided
- 5. Rest room provided
- 6. Isolation of Labour hutments from construction activity area for safety purpose Not Applicable
- 7. Cooking aids Not Applicable

Sr.No	Plant Area	Qty	Area Sqft	Area Sqmtı
1	Pailet Yard	210	42246	3929
2	H.R. Front hill site	168	26340	2450
3	Dandwadi Hill site	90	96920	9015
4	CBFS	570	7400	688
5	Control Room front side	8	1120	104
6	Boiler area	41	2880	267
7	CBFS	89	10720	997
8	D.G Area	32	1050	97
9	Bath house	34	1316	122
10	Gate no 1	145	24400	2269
11	Fuel oil area	34	1332	123
12	Settling pond area	84	1018	94
13	Pipe rack Garden area	40	800	74
14	T.G. Road site	20	1180	109
15	Warehouse	18	561	52
16	West side security tower no 1 & 2	300	80216.5	7462
17	Wall compound (East-west-North side)	1000	21500	2000
18	Area between bath house & settling pond	850	107500	10000
19	Switch yard side	125	28358.5	2638
20	Dandwadi (East – North side)	276	31175	2900
21	Pipe rack road side	20	800	74
22	Reactor road site	40	750	69
23	Labour shed area	90	3000	279
24	Switch yard back site slop area	200	15000	1395
25	Gate no.1	300	87000	8093
	Total Area	4790	594583	55300



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants



ISO 9001: 2015 ISO 45001 : 2018

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"

Date of Sampling

Time of Sampling

Stack Attached To

Stack ID

Stack Shape

Stack MOC

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

Dist.: Raigad-410207, Maharashtra, India

REPORT NO.

UT/ELS/REPORT/6610/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Registration Date :

:

02-11/2021 08/11/2021

02/11/2021

11:30 Hrs. to 12:30 Hrs

STACK EMISSIONS QUALITY MONITORING

Analysis Starting Date Analysis Completion Date

Sample Lab Code

11/11/2021 UT/ELS/020/11-2021

08/11/2021

Sample Collected By

ULTRA TECH

STACK DETAILS

S-02 Boiler

Round

Stack Height

Stack Diameter

Fuel Used

6.3 meter @ Sampling Point Flue Gas

88,000 Nm3/hr

RCC

Fuel Consumption

FLUE GAS CHARACTERISTICS

Flue Gas Temperature **Flue Gas Velocity**

392 ٥K 4.7 m/sec Volumetric Flow Rate **Total Volume of Flue Gas** 382996 1.000

Nm3/hr Nm3 (@ STP)

108 meters from Ground Level

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	35	mg/Nm³
2	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	21	mg/Nm³
۷.	Surpriur Dioxide (502)		193.59	Kg/Day
3.	Oxides of Nitrogen (NO _X)	IS 11255 (Part 07) : 2005	. 41	mg/Nm³

Opinions / Interpretations:

/			
Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 2613	Valid up to - 12/01/2022

Note:

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- 5.This test report shall be referred along with Test Report No. UT/ELS/REPORT/6611/11-2021 Dated 12/11/2021 for final conclusion.

– END OF REPORT –

or ULTRA TECH,

PIN-400 001

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STP/ETP/WTP Project Management Consultants

ISO 9001: 2015 ISO 45001: 2018

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/6611/11-2021

Unit: "Patalaganga"

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

ISSUE DATE YOUR REF.

STACK EMISSIONS QUALITY MONITORING

12/11/2021

Dist.: Raigad-410207, Maharashtra, India

1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS

02-11/2021

Analysis Starting Date

08/11/2021

Sampling Plan Ref. No. Sample Registration Date :

08/11/2021

Analysis Completion Date Sample Lab Code

11/11/2021 UT/ELS/020/11-2021

Date of Sampling

02/11/2021

Time of Sampling

11:30 Hrs. to 12:30 Hrs

Sample Collected By

ULTRA TECH

STACK DETAILS

Stack ID

S-02

Stack Height

108 meters from Ground Level

Stack Attached To Stack Shape

Boiler

Stack Diameter

6.3 meter @ Sampling Point

Stack MOC

Round **RCC**

Fuel Used

Flue Gas 88,000 Nm3/hr

Fuel Consumption

FLUE GAS CHARACTERISTICS

382996

Nm³/hr

Flue Gas Temperature **Flue Gas Velocity**

392 4.7

οK m/sec Volumetric Flow Rate **Total Volume of Flue Gas**

1.000

Nm3 (@ STP)

r. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO Analyzer	78	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

Opinions / Interpretations:

Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 2613	Valid up to - 12/01/2022

Note:

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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/6610/11-2021 Dated 12/11/2021 for final conclusion.

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TC-5600

ISO 9001: 2015 ISO 45001: 2018

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.

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. **ISSUE DATE**

UT/ELS/REPORT/6612/11-2021

YOUR REF.

12/11/2021 1300022569

REF. DATE

STACK EMISSIONS QUALITY MONITORING

27/04/2021

SAMPLE PARTICULARS Sampling Plan Ref. No.

02-11/2021

Analysis Starting Date

08/11/2021

Sample Registration Date: **Date of Sampling**

08/11/2021 02/11/2021 **Analysis Completion Date** Sample Lab Code

11/11/2021

Sample Collected By

UT/ELS/019/11-2021

Time of Sampling

Stack Attached To

10:00 Hrs. to 11:00 Hrs

ULTRA TECH

STACK DETAILS

Stack ID

S-03

D. G. Set (1875 KVA)

Stack Height Stack Diameter 43 meters from Ground Level 0.25 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

Flue Gas Velocity

474 7.2

οK m/sec

Volumetric Flow Rate **Total Volume of Flue Gas** 811 1.000

:

Nm³/hr Nm³ (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	29	mg/Nm³
2	Sulphur Dioxide (SO ₂)	10 11255 (Ross 02) - 1005	13	mg/Nm³
۷.	Suipital Dioxide (302)	Dioxide (SO ₂) IS 11255 (Part 02): 1985	0.26	Kg/Day
3.	Oxides of Nitrogen (NOx)	IS 11255 (Part 07) : 2005	. 27	mg/Nm³

Opinions / Interpretations:

Nil

T	Sampling Equipment	Instrument Used	Make & Model	Calibration Status
L	Details	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 2613	Valid up to - 12/01/2022

Note:

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PIN-400 601 S

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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

Unit: "Patalaganga"

Date of Sampling

Time of Sampling

Stack Attached To

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

Dist.: Raigad-410207, Maharashtra, India

REF. DATE 27/04/2021

REPORT NO.

ISSUE DATE

YOUR REF.

SAMPLE PARTICULARS

Sampling Plan Ref. No.

02-11/2021 Sample Registration Date :

02/11/2021

08/11/2021

10:00 Hrs. to 11:00 Hrs

STACK EMISSIONS QUALITY MONITORING

Analysis Starting Date 08/11/2021 **Analysis Completion Date** 11/11/2021

Sample Lab Code UT/ELS/019/11-2021

Sample Collected By **ULTRA TECH**

STACK DETAILS

Stack ID

Stack Shape

Stack MOC

S-03

D. G. Set (1875 KVA)

Round

M.S.

Stack Height Stack Diameter

Fuel Used

Fuel Consumption

43 meters from Ground Level 0.25 meter @ Sampling Point

UT/ELS/REPORT/6613/11-2021

H. S. D.

450 Liters/Hr

12/11/2021

1300022569

FLUE GAS CHARACTERISTICS

Flue Gas Temperature

Flue Gas Velocity

474 7.2

m/sec

Volumetric Flow Rate **Total Volume of Flue Gas** 811 1.000

Nm³/hr Nm3 (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO ANALIZER	18	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

Opinions / Interpretations:

Nil

 Sampling Equipment 	Instrument Used	Make & Model	Calibration Status
Details	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 2613	Valid up to - 12/01/2022

Note:

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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/6612/11-2021 Dated 12/11/2021 for final conclusion.

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THANE (W) INDIA PIN-400 601

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ISO 9001: 2015 ISO 45001: 2018

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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. ISSUE DATE

UT/ELS/REPORT/6614/11-2021 12/11/2021

YOUR REF.

1300022569

REF. DATE

STACK EMISSIONS QUALITY MONITORING

27/04/2021

SAMPLE PARTICULARS

02-11/2021

Analysis Starting Date Analysis Completion Date 08/11/2021

Sampling Plan Ref. No. Sample Registration Date : **Date of Sampling**

08/11/2021 02/11/2021

Sample Lab Code

11/11/2021 UT/ELS/024/11-2021

Time of Sampling

14:30 Hrs. to 15:30 Hrs

Sample Collected By

ULTRA TECH

STACK DETAILS

Stack ID Stack Attached To

Stack Shape

Stack MOC

S-01 Dryen

Round M.S.

Stack Height **Stack Diameter**

Fuel Consumption

77 meters from Ground Level 1.43 meter @ Sampling Point

Fuel Used

Flue Gas 1,500 Nm3/Hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature **Flue Gas Velocity**

496 8.2

οK m/sec

Volumetric Flow Rate Total Volume of Flue Gas 27453 1.000

INU); PIN-400 601 Nm³/hr Nm3 (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	24	mg/Nm³
2	Sulphur Dioxide (SO ₂)	IC 11255 (Down 02) - 1005	19	mg/Nm³
۲۰	Sulphur Dioxide (SO ₂) IS 11255 (Part 02): 1985	12.81	Kg/Day	
3.	Oxides of Nitrogen (NOx)	IS 11255 (Part 07) : 2005	34	mg/Nm³

Opinions / Interpretations:

Nil

 Sampling Equipment 	Instrument Used	Make & Model	Calibration Status
Details	Stack Sampling Kit	Make - POLLTECH; Model – PEM-SMS 4; Sr. No. 2613	Valid up to - 12/01/2022

Note:

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5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6615/11-2021 Dated 12/11/2021 for final conclusion.

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For ULTRA TECH,

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STP/ETP/WTP Project Management Consultants

ISO 9001: 2015 ISO 45001: 2018

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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

STACK EMISSIONS QUALITY MONITORING

REPORT NO.

ISSUE DATE

YOUR REF.

REF. DATE

SAMPLE PARTICULARS

Sampling Plan Ref. No.

02-11/2021 Sample Registration Date

08/11/2021

02/11/2021

14:30 Hrs. to 15:30 Hrs

Analysis Starting Date

Analysis Completion Date Sample Lab Code

Sample Collected By

11/11/2021 UT/ELS/024/11-2021

UT/ELS/REPORT/6615/11-2021

ULTRA TECH

08/11/2021

12/11/2021

1300022569

27/04/2021

STACK DETAILS

Stack ID Stack Attached To

Stack Shape

Stack MOC

Date of Sampling

Time of Sampling

S-01 Dryer-

Round M.S.

Stack Height

Stack Diameter **Fuel Used**

1.43 meter @ Sampling Point Flue Gas

Fuel Consumption 1,500 Nm3/Hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature

Flue Gas Velocity

496 8.2

οK m/sec Volumetric Flow Rate Total Volume of Flue Gas 27453 1.000

Nm3/hr Nm³ (@ STP)

77 meters from Ground Level

r. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO ANALYZER	58	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

Opinions / Interpretations:

Ĩ	Sampling Equipment	Instrument Used	Make & Model	Calibration Status
L	Details	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 2613	Valid up to - 12/01/2022

Note:

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- 6.This test report shall be referred along with Test Report No. UT/ELS/REPORT/6614/11-2021 Dated 12/11/2021 for final conclusion.

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UT/ELS/REPORT/6616/11-2021

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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

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Registration Date :

Date of Sampling Time of Sampling

02-11/2021

02/11/2021

10:10 Hrs. to 11:30 Hrs

Analysis Starting Date Analysis Completion Date 08/11/2021

Sample Lab Code

Sample Collected By

REPORT NO.

ISSUE DATE

YOUR REF.

REF. DATE

STACK EMISSIONS QUALITY MONITORING

11/11/2021 UT/ELS/021/11-2021

12/11/2021

1300022569

27/04/2021

ULTRA TECH

08/11/2021

STACK DETAILS

Stack ID Stack Attached To

S-07 PGF No. 01

Round

S.S.

Stack Height

Stack Diameter

Fuel Used

Fuel Consumption

NA

NA

FLUE GAS CHARACTERISTICS

Flue Gas Temperature

Flue Gas Velocity

Stack Shape

Stack MOC

392 6.4

 ^{0}K

m/sec

Volumetric Flow Rate Total Volume of Flue Gas 58552 1.000

Nm³/hr Nm3 (@ STP)

30 meters from Ground Level

2.1 meter @ Sampling Point

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	15	mg/Nm³
	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	BDL[DL=5]	mg/Nm³
2.			BDL[DL=7.03]†	Kg/Day
3.	Oxides of Nitrogen (NOx)	IS 11255 (Part 07): 2005	28	mg/Nm³
I. = Belo	w Detection Limit	DL=Detection Limit		

Opinions / Interpretations:

Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	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.

2. This test report is valid at the time of and under the conditions specified herein.

3. This test report may not be reproduced in part, without the permission of this laboratory.

4. Any correction invalidates this test report.

5. 7: 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/REPONT/6617/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT

THANE (W) INDIA PIN-400 601

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QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants

ISO 9001: 2015 ISO 45001: 2018

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. **ISSUE DATE**

UT/ELS/REPORT/6617/11-2021

YOUR REF.

12/11/2021 1300022569

REF. DATE

27/04/2021

08/11/2021

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Registration Date: Date of Sampling

02-11/2021 08/11/2021 02/11/2021

10:10 Hrs. to 11:30 Hrs

STACK EMISSIONS QUALITY MONITORING **Analysis Starting Date**

Analysis Completion Date

11/11/2021 Sample Lab Code UT/ELS/021/11-2021

Sample Collected By **ULTRA TECH**

STACK DETAILS

Stack ID Stack Attached To

Stack Shape

Stack MOC

Time of Sampling

S-07

PGF No. 01 Round

: S.S. Stack Height

Stack Diameter

2.1 meter @ Sampling Point **Fuel Used** NA **Fuel Consumption** NA

FLUE GAS CHARACTERISTICS

Flue Gas Temperature

Flue Gas Velocity

392 6.4

οK m/sec Volumetric Flow Rate **Total Volume of Flue Gas**

58552 1.000

Nm³/hr Nm3 (@ STP)

30 meters from Ground Level

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO ANALYZER	30	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
DL = Below Detection Limit		DL=Detection Limit	1 2 1	

Opinions / Interpretations:

Nil

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

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- 6.This test report shall be referred along with Test Report No UT/ELS/REPORT/6616/11-2021 Dated 12/11/2021 for final conclusion.

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ISO 9001:2015 ISO 45001: 2018

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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

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Registration Date

Date of Sampling Time of Sampling 02-11/2021

08/11/2021 02/11/2021

11:40 Hrs. to 12:40 Hrs

STACK EMISSIONS QUALITY MONITORING **Analysis Starting Date**

Analysis Completion Date Sample Lab Code

REPORT NO.

ISSUE DATE

YOUR REF.

REF. DATE

Sample Collected By

11/11/2021

08/11/2021

12/11/2021

1300022569

27/04/2021

UT/ELS/022/11-2021 **ULTRA TECH**

UT/ELS/REPORT/6618/11-2021

STACK DETAILS

Stack ID Stack Attached To

Stack Shape

Stack MOC

S-08 PGF No. 02

Round

S.S.

Stack Height

Stack Diameter **Fuel Used**

Fuel Consumption

2.1 meter @ Sampling Point NA :

NA

FLUE GAS CHARACTERISTICS

Flue Gas Temperature Flue Gas Velocity

392 6.4

 ^{0}K

m/sec

Volumetric Flow Rate **Total Volume of Flue Gas** 58552 1.000

Nm³/hr Nm3 (@ STP)

30 meters from Ground Level

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	20	mg/Nm³
2	Calabara Piratia (CO.)	IS 11255 (Part 02) : 1985	BDL[DL=5]	mg/Nm³
2.	Sulphur Dioxide (SO ₂)		BDL[DL=5.15] [†]	Kg/Day
3.	Oxides of Nitrogen (NOx)	IS 11255 (Part 07) : 2005	18	mg/Nm³
L = Belo	w Detection Limit	DL=Detection Limit		****

Opinions / Interpretations:

Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	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.

2. This test report is valid at the time of and under the conditions specified herein.

3. This test report may not be reproduced in part, without the permission of this laboratory.

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/6619/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

THANE (W) INDIA PIN-400 601

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or ULTRA TECH,

Page 1 of 1

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STP/ETP/WTP Project Management Consultants

ISO 9001: 2015 ISO 45001: 2018

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/6619/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

STACK EMISSIONS QUALITY MONITORING

27/04/2021

SAMPLE PARTICULARS

Sampling Plan Ref. No.

02-11/2021 08/11/2021 **Analysis Starting Date Analysis Completion Date** 08/11/2021 11/11/2021

Sample Registration Date : Date of Sampling

02/11/2021

Sample Lab Code

UT/ELS/022/11-2021

Time of Sampling

11:40 Hrs. to 12:40 Hrs

Sample Collected By

ULTRA TECH

STACK DETAILS

Stack ID Stack Attached To S-08 PGF No. 02 Stack Height **Stack Diameter**

30 meters from Ground Level 2.1 meter @ Sampling Point

Stack Shape Stack MOC

Round S.S.

Fuel Used

NA

Fuel Consumption

NA

FLUE GAS CHARACTERISTICS

Flue Gas Temperature

Flue Gas Velocity

392 6.4

:

οK

m/sec

Volumetric Flow Rate Total Volume of Flue Gas 58552 1.000

Nm3/hr 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

DL=Detection Limit

BDL = Below Detection Limit Opinions / Interpretations:

Nil

Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	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. Parameter is tested are not covered under NABL scope.

6.This test report shall be referred along with Test Report No. UT/ELS/REPORT/6618/11-2021 Dated 12/11/2021 for final conclusion

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ISO 9001: 2015

ISO 45001: 2018

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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

YOUR REF.

STACK EMISSIONS QUALITY MONITORING

REF. DATE

REPORT NO.

ISSUE DATE

12/11/2021 1300022569

27/04/2021

SAMPLE PARTICULARS Sampling Plan Ref. No.

Sample Registration Date :

02-11/2021 08/11/2021

Analysis Starting Date

Analysis Completion Date

08/11/2021 11/11/2021

Date of Sampling

02/11/2021

Sample Lab Code

UT/ELS/027/11-2021

Time of Sampling

16:00 Hrs. to 17:00 Hrs

Sample Collected By

ULTRA TECH

STACK DETAILS

Stack ID Stack Attached To S-06

Stack Height **Stack Diameter** 30 meters from Ground Level

UT/ELS/REPORT/6620/11-2021

Stack Shape

Packing Exhaust Blower Round

Fuel Used

FLUE GAS CHARACTERISTICS

0.2 meter @ Sampling Point NA

MS

Fuel Consumption

NA

Stack MOC

Nm3/hr

Flue Gas Temperature **Flue Gas Velocity**

387 4.9

 ^{0}K m/sec Volumetric Flow Rate **Total Volume of Flue Gas** 407 1.000

Nm3 (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	26	mg/Nm³
3	Colobora Diseida (CO.)	10.1.1077 (D	14	mg/Nm³
2.	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02): 1985	0.14	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07) : 2005	16	mg/Nm³

Opinions / Interpretations:

Nil

Sampling Equipment Instrument Use		Make & Model	Calibration Status
Details	Stack Sampling Kit	Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 2613	Valid up to - 12/01/2022

Note:

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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. **ISSUE DATE**

UT/ELS/REPORT/6621/11-2021 12/11/2021

YOUR REF.

STACK EMISSIONS QUALITY MONITORING

1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS Sampling Plan Ref. No.

02-11/2021

Analysis Starting Date

08/11/2021

Sample Registration Date: Date of Sampling

08/11/2021

02/11/2021

Analysis Completion Date Sample Lab Code

11/11/2021

UT/ELS/027/11-2021

Time of Sampling

16:00 Hrs. to 17:00 Hrs

Sample Collected By

ULTRA TECH

STACK DETAILS

FLUE GAS CHARACTERISTICS

Stack ID

S-06

Stack Height

30 meters from Ground Level

Stack Attached To Stack Shape

Packing Exhaust Blower Round

Stack Diameter

0.2 meter @ Sampling Point

Fuel Used

NA :

Stack MOC

SS

Fuel Consumption

NA

Flue Gas Temperature

Flue Gas Velocity

387 4.9

οK m/sec Volumetric Flow Rate **Total Volume of Flue Gas** 407 1.000

Nm³/hr Nm³ (@ 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

Opinions / Interpretations:

Nil

Ì	Sampling Equipment	Instrument Used	Make & Model	Calibration Status
	Details	Stack Sampling Kit	Make - POLLTECH: Model – PEM-SMS 4: Sr. No. 2613	Valid up to - 12/01/2022

Note:

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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/6622/11-2021

ISSUE DATE YOUR REF.

STACK EMISSIONS QUALITY MONITORING

12/11/2021 1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS Sampling Plan Ref. No.

02-11/2021

Analysis Starting Date Analysis Completion Date 08/11/2021

Sample Registration Date : **Date of Sampling**

08/11/2021

02/11/2021

Sample Lab Code

11/11/2021 UT/ELS/023/11-2021

Time of Sampling

Stack Attached To

12:45 Hrs. to 13:45 Hrs

Sample Collected By

ULTRA TECH

STACK DETAILS

Stack ID

S-04

Gas Flair

Stack Height **Stack Diameter**

52 meters from Ground Level 1.4 meter @ Sampling Point

Stack Shape Stack MOC

Round MS :

Fuel Used

LPG

Fuel Consumption

15kg/hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature

Flue Gas Velocity

414 7.6

Instrument Used

٥K m/sec **Volumetric Flow Rate Total Volume of Flue Gas**

Make & Model

Make - POLLTECH; Model - PEM-SMS 4; Sr. No. 2613

28807 1.000

Nm3/hr Nm3 (@ STP)

Calibration Status

Valid up to - 12/01/2022

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	35	mg/Nm³
2	Sulphur Diovido (CO-)	IS 11255 (Part 02) : 1985	13	mg/Nm³
۷.	2. Sulphur Dioxide (SO ₂)		9.05	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07) : 2005	26	mg/Nm³

Opinions / Interpretations: Nil

Sampling Equipment

Details Stack Sampling Kit Note: 1. This test report refers only to the sample tested.

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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

SAMPLE PARTICULARS

Sampling Plan Ref. No. Sample Registration Date:

Date of Sampling

Time of Sampling

08/11/2021 02/11/2021

12:45 Hrs. to 13:45 Hrs

02-11/2021

STACK EMISSIONS QUALITY MONITORING

Analysis Starting Date

Sample Lab Code

Sample Collected By

Analysis Completion Date 11/11/2021 UT/ELS/023/11-2021

ULTRA TECH

08/11/2021

12/11/2021

1300022569

27/04/2021

REPORT NO.

ISSUE DATE

YOUR REF.

REF. DATE

STACK DETAILS

Stack ID

Stack Shape

Stack MOC

Stack Attached To

S-04

Gas Flair Round

MS

Stack Height

Stack Diameter **Fuel Used**

Fuel Consumption

52 meters from Ground Level 1.4 meter @ Sampling Point

UT/ELS/REPORT/6623/11-2021

LPG

15 kg/hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature

Flue Gas Velocity

414 7.6

 ^{0}K

m/sec

Volumetric Flow Rate

Total Volume of Flue Gas

28807 1.000

Nm³/hr Nm3 (@ STP)

r. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO ANALYZER	12	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
L = Belo	w Detection Limit	DL=Detection Limit		

Opinions / Interpretations: Nil

Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	Stack Sampling Kit	Make - POLLTECH: Model - PEM-SMS 4: Sr. No. 2613	Valid up to - 12/01/2022

Note:

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THANE (W) INDIA

PIN-400 601

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For ULTRA TECH,

UT/ELS/REPORT/6624/11-2021



Environmental Consultancy & Laboratory

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ISO 9001: 2015 ISO 45001: 2018

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.

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

Unit: "Patalaganga"

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

Dist.: Raigad-410207, Maharashtra, India

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Registration Date :

Date of Sampling

Time of Sampling

02-11/2021

08/11/2021 02/11/2021

13:30 Hrs. to 14:30 Hrs

STACK EMISSIONS QUALITY MONITORING

Analysis Starting Date Analysis Completion Date

REPORT NO.

ISSUE DATE

YOUR REF.

REF. DATE

Sample Lab Code

Sample Collected By

UT/ELS/025/11-2021

12/11/2021

1300022569

27/04/2021

ULTRA TECH

08/11/2021

11/11/2021

STACK DETAILS

Stack ID Stack Attached To

Stack Shape

Stack MOC

S-05

Fire Diesel pump

Round MS

Stack Height

Stack Diameter **Fuel Used**

Fuel Consumption

0.15 meter @ Sampling Point **HSD** :

2.22 kg/hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature

Flue Gas Velocity

445 9.0

٥K m/sec Volumetric Flow Rate **Total Volume of Flue Gas** 373 1.000 Nm3/hr Nm3 (@ STP)

3.0 meters from Ground Level

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	28	mg/Nm³
2. Sulphur	Sulphur Dioxide (SO ₂)	IS 11255 (Part 02) : 1985	11	mg/Nm³
	Surprice Dioxide (SO2)		0.10	Kg/Day
3.	Oxides of Nitrogen (NO _x)	IS 11255 (Part 07) : 2005	21	mg/Nm³

Opinions / Interpretations:

Nil

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

Note:

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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.

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/6625/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

STACK EMISSIONS QUALITY MONITORING

27/04/2021

SAMPLE PARTICULARS

Sample Registration Date

Sampling Plan Ref. No.

02-11/2021

08/11/2021

02/11/2021

Analysis Completion Date

Analysis Starting Date Sample Lab Code

08/11/2021 11/11/2021

Sample Collected By

UT/ELS/025/11-2021 **ULTRA TECH**

Time of Sampling

13:30 Hrs. to 14:30 Hrs

STACK DETAILS

Stack Height

3.0 meters from Ground Level

Stack Attached To Stack Shape

Date of Sampling

S-05 Fire Diesel pump Round

Stack Diameter **Fuel Used**

0.15 meter @ Sampling Point

Stack MOC

Stack ID

MS

Fuel Consumption

HSD 2.22 kg/hr

FLUE GAS CHARACTERISTICS

Nm³/hr

Flue Gas Temperature **Flue Gas Velocity**

445 9.0

m/sec

Volumetric Flow Rate **Total Volume of Flue Gas**

373 1.000

Nm3 (@ STP)

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO ANALYZER	60	ррт
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

Opinions / Interpretations:

Nil

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

Note:

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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/6624/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT –

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ISO 45001: 2018

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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

SAMPLE PARTICULARS

Sampling Plan Ref. No. Sample Registration Date :

Date of Sampling

Time of Sampling

08/11/2021 02/11/2021

15:30 Hrs. to 16:30 Hrs

02-11/2021

STACK EMISSIONS QUALITY MONITORING **Analysis Starting Date**

Analysis Completion Date Sample Lab Code

REPORT NO.

ISSUE DATE

YOUR REF.

REF. DATE

Sample Collected By

08/11/2021 11/11/2021

12/11/2021

1300022569

27/04/2021

UT/ELS/026/11-2021

ULTRA TECH

STACK DETAILS

S-09 Stack ID

Stack Attached To D.G SET [250KVA] Stack Shape Round

MS

Stack Height

Stack Diameter **Fuel Used**

Fuel Consumption

HSD

322.45 kg/hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature

Flue Gas Velocity

Stack MOC

408 9.3

٥K m/sec Volumetric Flow Rate Total Volume of Flue Gas 429 1.000

Nm3/hr Nm3 (@ STP)

3.0 meters from Ground Level

0.15 meter @ Sampling Point

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Total Particulate Matter (TPM)	UT/LQMS/SOP/SE01	28	mg/Nm³
2	Sulphur Dioxide (SO ₂) IS 11255 (Part 02): 1985		17	mg/Nm³
2.		IS 11255 (Part 02): 1985	0.17	Kg/Day
3.	Oxides of Nitrogen (NO _X)	IS 11255 (Part 07) : 2005	22	mg/Nm³

Opinions / Interpretations:

Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	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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2. This test report is valid at the time of and under the conditions specified herein.

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ISO 9001: 2015 ISO 45001: 2018

Lab: Survey No. 93/A, Conformity Hissa No.2 G.V.Brothers Bidg., 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

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Registration Date :

Date of Sampling Time of Sampling

02/11/2021

02-11/2021

08/11/2021

15:30 Hrs. to 16:30 Hrs

STACK EMISSIONS QUALITY MONITORING

REPORT NO.

ISSUE DATE

YOUR REF.

REF. DATE

Analysis Starting Date Analysis Completion Date

Sample Lab Code

Sample Collected By

08/11/2021

12/11/2021

1300022569

27/04/2021

11/11/2021

UT/ELS/026/11-2021 **ULTRA TECH**

UT/ELS/REPORT/6627/11-2021

STACK DETAILS

Stack ID Stack Attached To

Stack Shape

Stack MOC

S-09

D.G SET 250KVA

Round

MS

Stack Height

Stack Diameter

Fuel Used

Fuel Consumption

0.15 meter @ Sampling Point

HSD 322.45 kg/hr

FLUE GAS CHARACTERISTICS

Flue Gas Temperature

Flue Gas Velocity

408 9.3

٥K

m/sec

Volumetric Flow Rate Total Volume of Flue Gas 429 1.000

INDIA PIN-400 601

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Nm3/hr Nm3 (@ STP)

3.0 meters from Ground Level

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Carbon Monoxide (CO)	NDIR CO ANALYZER	44	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

Opinions / Interpretations:

Sampling Equipment	Instrument Used	Make & Model	Calibration Status
Details	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.

2. This test report is valid at the time of and under the conditions specified herein,

3. This test report may not be reproduced in part, without the permission of this laboratory.

4. Any correction invalidates this test report.

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/6626/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

For ULTRA TECH.

Authorized Signatory



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 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@ultreatech.in Visit us at: www.ultratech.in

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

REPORT NO.

UT/ELS/REPORT/6588/11-2021

Unit: "Patalaganga"

ISSUE DATE

12/11/2021

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

YOUR REF.

1300022569

Dist.: Raigad-410207, Maharashtra, India

REF. DATE

27/04/2021

SAMPLE PARTICULARS

AMBIENT AIR QUALITY MONITORING

Location Code

: 01

Sampling Plan Ref. No.: Sample Registration Date 02-11/2021 08/11/2021

Sample Location

: Tank Farm area (10 Meter off to East Direction from Greenhouse)

Date of Sampling Time of Sampling 01/11/2021 to 02/11/2021 13:35 Hrs. to 13:35Hrs.

Co-ordinates: N 18°50'53.98"; E 73°12'45.35"

\nalysis Starting Date

08/11/2021

Collected By **Height of Sampler**

ULTRA TECH : 1.0 Meter

Analysis Completion Date Sample Lab Code

12/11/2021 UT/ELS/007/11-2021

Sampling Duration : 24 Hours

Ambient	Air Temperature : 25.2°C to 34.	8°C Relative Humidity	: 47.3 % to 79.8 %	
Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	BDL[DL=5]	μg/m³
2.	Oxides of Nitrogen (NOx)	IS 5182 (Part 06) : 2006	21	μg/m³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method IO-2.1	92	μg/m³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	31	μg/m³
5.	Lead (Pb)	IS 5182 (Part 22) : 2004	BDL[DL=0.01]	μg/m³
6.	Carbon Monoxide (CO)†	IS 5182 (Part 10): 1999	1.3	mg/m³
7.	Ammonia (NH3) [£]	ISC Method 401	47	μg/m³
8.	Arsenic (As)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL[DL=2]	ng/m³
	Period 1 Hr.	£: Sampling Period 2 Hrs.	1	
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	Instrument Used	Make & Model	Calibration Status
Equipment	Respirable Dust Sampler *	Make – POLLTECH; Model- PEM-RDS 8NL BM; Sr. No. 914	Valid up to - 28/02/2022
 Details	Fine Dust Sampler	Make – Netel; Model- NPM FDS2.5/10μ (A); Sr. No. 154	Valid up to - 09/02/2022

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.

6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6589/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT

For ULTRA TECH.

THANE (W) INDIA PIN-400 601

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(Authorized Signatory)

Page 1 of 1

Kolkata: +033-40089145 / +91-9674488198 - kolkata@ultratech.in



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 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@ultreatech.in Visit us at: www.ultratech.in

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

REPORT NO. ISSUE DATE

UT/ELS/REPORT/6589/11-2021

Unit: "Patalaganga"

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

YOUR REF.

12/11/2021

Dist.: Raigad-410207, Maharashtra, India

REF. DATE

1300022569 27/04/2021

SAMPLE PARTICULARS

AMBIENT AIR QUALITY MONITORING

Sampling Plan Ref. No.:

02-11/2021

Location Code

Sample Registration Date

08/11/2021

Sample Location

Tank Farm area (10 Meter off to East

Date of Sampling Time of Sampling 01/11/2021 to 02/11/2021 13:35 Hrs. to 13:35Hrs.

Direction from Greenhouse)

Analysis Starting Date

08/11/2021

Collected By

Co-ordinates: N 18°50'53.98"; E 73°12'45.35" : ULTRA TECH

Analysis Completion Date

12/11/2021

Height of Sampler Sampling Duration: 24 Hours

: 1.0 Meter

Sample Lab Code Ambient Air Temperature

UT/ELS/007/11-2021 25.2°C to 34.8°C

Relative Humidity: 47.3 % to 79.8 %

		110101110111111111111111111111111111111	110111111111111111111111111111111111111	
Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Ozone (O₃)∞	IS 5182 (Part 09) : 1974	BDL [DL=10]	μg/m³
2.	Benzene (C ₆ H ₆) [∞]	IS 5182 (Part 11): 2006	1.1	μg/m³
3. + 0	Benzo(α)Pyrene (BaP) – Particulate Phase	IS 5182 (Part 12) : 2004	BDL [DL=0.5]	ng/m³
4.	Nickel (Ni)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL [DL=1]	ng/m³
: Samplin	g Period 8 Hrs.			
DL: 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	Instrument Used	Make & Model	Calibration Status
Equipment	Respirable Dust Sampler	Make – POLLTECH; Model- PEM-RDS 8NL BM; Sr. No. 914	Valid up to - 28/02/2022
Details	Fine Dust Sampler	Make – Netel; Model- NPM FDS2.5/10μ (A); Sr. No. 154	Valid up to - 09/02/2022

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.
- 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/6588/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

For ULTRA TECH.

THANE (W) INDIA PIN-400 601

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Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

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TC:5600

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.

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. ISSUE DATE

UT/ELS/REPORT/6590/11-2021 12/11/2021

YOUR REF.

1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS AMBIENT AIR QUALITY MONITORING

Sampling Plan Ref. No.:

02-11/2021

Location Code

: 02

Sample Registration Date Date of Sampling

Time of Sampling

08/11/2021

Sample Location

Switch Yard Area (05 Meter off to South Direction on Steel Platform)

01/11/2021 to 02/11/2021

14:15 Hrs. to 14:15Hrs.

Co-ordinates: N 18°51'11.18"; E 73°12'48.28" **ULTRA TECH**

Analysis Starting Date Analysis Completion Date

08/11/2021 12/11/2021 Collected By Height of Sampler Sampling Duration: 24 Hours

: 1.0 Meter

Sample Lab Code Ambiant Air Tampa UT/ELS/009/11-2021 25 200 +0 24 000

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	BDL[DL=5]	μg/m³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	28	μg/m³
3.	Particulate Matter (PM10)	EPA/625/R-96/010a Method IO-2.1	88	μg/m³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	33	μg/m³
5.	Lead (Pb)	IS 5182 (Part 22) : 2004	0.02	μg/m³
6.	Carbon Monoxide (CO) [†]	IS 5182 (Part 10): 1999	1.3	mg/m³
7.	Ammonia (NH3) [£]	ISC Method 401	42	μg/m³
8.	Arsenic (As)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL[DL=2]	ng/m³
	Period 1 Hr. Detection Limit	£: Sampling Period 2 Hrs. 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	Instrument Used	Make & Model	Calibration Status
Equipment	Respirable Dust Sampler 🔧	Make – POLLTECH; Model- PEM-RDS 9 NL; Sr. No. 220	Valid up to - 17/02/2022
Details	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10µ; Sr. No. 18213	Valid up to - 04/01/2022

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.

6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6591/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT

For ULTRA TECH,

THANE (W) INDIA PIN-400 601

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Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

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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@ultreatech.in Visit us at: www.ultratech.in

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

REPORT NO. **ISSUE DATE**

AMBIENT AIR QUALITY MONITORING

UT/ELS/REPORT/6591/11-2021

Unit: "Patalaganga"

12/11/2021

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

YOUR REF.

1300022569

Dist.: Raigad-410207, Maharashtra , India

REF. DATE

27/04/2021

SAMPLE PARTICULARS

: 02-11/2021

Location Code

: 02

Sampling Plan Ref. No.: Sample Registration Date

08/11/2021

Sample Location

: Switch Yard Area (05 Meter off to

Date of Sampling

01/11/2021 to 02/11/2021

South Direction on Steel Platform) Co-ordinates: N 18°51'11.18"; E 73°12'48.28"

Time of Sampling **Analysis Starting Date** 14:15 Hrs. to 14:15Hrs. 08/11/2021

Collected By

: ULTRA TECH

Analysis Completion Date

12/11/2021

Height of Sampler Sampling Duration

1.0 Meter : 24 Hours

Sample Lab Code Ambient Air Temper UT/ELS/009/11-2021 25 3°C to 34 0°C

Dalativa Humidity

INDIA PIN-499 601

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47 4 06 to 70 0 06

motent	All Temperature : 25.5 C to 54.	Meiauve numiumy	47.4 % to 79.9 %	
Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Ozone (O₃)∞	IS 5182 (Part 09) : 1974	BDL [DL=10]	μg/m³
2.	Benzene (C ₆ H ₆) [∞]	IS 5182 (Part 11) : 2006	1.3	μg/m³
3.	Benzo(α)Pyrene (BaP) – Particulate Phase	IS 5182 (Part 12) : 2004	BDL [DL=0.5]	ng/m³
4,	Nickel (Ni)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL [DL=1]	ng/m³
	g Period 8 Hrs.		1	
3DL: 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	Instrument Used	Make & Model	Calibration Status
F	quipment	Respirable Dust Sampler	Make – POLLTECH; Model- PEM-RDS 9 NL; Sr. No. 220	Valid up to - 17/02/2022
	Details	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10u; Sr. No. 18213	Valid up to - 04/01/2022

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.
- 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/6590/11-2021 Dated 12/11/2021 or final conclusion.

– END OF REPORT –

For ULTRA TECH.

(Authorized Signatory)



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants



TC-5660

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@ultreatech.in Visit us at: www.ultratech.in

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

REPORT NO.

UT/ELS/REPORT/6592/11-2021

Unit: "Patalaganga"

ISSUE DATE

12/11/2021

1300022569

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

YOUR REF.

Dist.: Raigad-410207, Maharashtra, India

REF. DATE

27/04/2021

SAMPLE PARTICULARS

Location Code

AMBIENT AIR QUALITY MONITORING

Sampling Plan Ref. No.: Sample Registration Date 02-11/2021 08/11/2021

Sample Location

: 03 Near Dandwadi. (10 Meter off to North-

Date of Sampling

01/11/2021 to 02/11/2021

East Direction towards DM Room) Co-ordinates: N 18°51'02.90"; E 73°12'51.73"

Time of Sampling

13:50 Hrs. to 13:50Hrs. 08/11/2021

Collected By

ULTRA TECH

Analysis Starting Date Analysis Completion Date

12/11/2021

Height of Sampler Sampling Duration 1.0 Meter 24 Hours

Sample Lab Code

UT/ELS/008/11-2021

Ambient	Air Temperature : 24.4°C to 33.	.5°C Relative Humidity	: 46.6 % to 78.5 %	
Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02): 2001	BDL[DL=5]	μg/m³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	26	μg/m³
3.	Particulate Matter (PM10)	EPA/625/R-96/010a Method IO-2.1	98	μg/m³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	35	μg/m³
5.	Lead (Pb)	IS 5182 (Part 22) : 2004	0.01	μg/m³
6.	Carbon Monoxide (CO) [†]	IS 5182 (Part 10): 1999	1.4	mg/m³
7.	Ammonia (NH₃) [€]	ISC Method 401	54	µg/m³
8.	Arsenic (As)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL[DL=2]	ng/m³
†: 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)

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\	Sampling	Instrument Used	Make & Model	Calibration Status
	Equipment	Respirable Dust Sampler 🔮	Make – POLLTECH; Model- PEM-RDS 9; Sr. No. 918	Valid up to - 20/12/2021
	Details	Fine Dust Sampler	Make POLLTECH: Model- PEM-ADS 2.5/10u: Sr. No. 18713	Valid up to - 16/03/2022

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.

6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6593/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT

For ULTRA TECH.

THANE (W) AKTIGI PIN-400 601 &

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(Authorized Signatory)



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 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.

Unit: "Patalaganga"

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

Dist.: Raigad-410207, Maharashtra, India

REPORT NO. **ISSUE DATE**

UT/ELS/REPORT/6592/11-2021 12/11/2021

YOUR REF.

1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS AMBIENT AIR QUALITY MONITORING

Sampling Plan Ref. No.:

02-11/2021

Location Code

: 03

Sample Registration Date

08/11/2021

Sample Location

: Near Dandwadi. (10 Meter off to North-East Direction towards DM Room)

Date of Sampling Time of Sampling

01/11/2021 to 02/11/2021 13:50 Hrs. to 13:50Hrs.

Collected By

Co-ordinates: N 18°51'02.90"; E 73°12'51.73"

Analysis Starting Date Analysis Completion Date

08/11/2021 12/11/2021

Height of Sampler

: 1.0 Meter 24 Hours

ULTRA TECH

Sample Lab Code Ambient Air Tomr UT/ELS/008/11-2021

Sampling Duration Dolotivo Ummidite

Ambient	Air Temperature : 24.4°C to	33.5°C Relative Humidity	: 46.6 % to 78.5 %	
Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	BDL[DL=5]	μg/m³
2.	Oxides of Nitrogen (NOx)	IS 5182 (Part 06) : 2006	26	μg/m³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method IO-2.1	98	μg/m³
4.	Particulate Matter (PMz.5)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	35	μg/m³
5.	Lead (Pb)	IS 5182 (Part 22) ; 2004	0.01	μg/m³ ·
6.	Carbon Monoxide (CO) [†]	IS 5182 (Part 10): 1999	1.4	mg/m³
7.	Ammonia (NH3) [£]	ISC Method 401	54	μg/m³
8.	Arsenic (As)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL[DL=2]	ng/m³
	Period 1 Hr. Detection Limit	£: Sampling Period 2 Hrs. 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	Instrument Used	Make & Model	Calibration Status
Equipment	Respirable Dust Sampler *	Make – POLLTECH; Model- PEM-RDS 9; Sr. No. 918	Valid up to - 20/12/2021
Details	Fine Dust Sampler	Make – POLLTECH; Model- PEM-ADS 2.5/10μ; Sr. No. 18713	Valid up to - 16/03/2022

Note:

- 1. This test report refers only to the sample tested.
- 2. Monituring 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.

6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6593/11-2021 Dated 12/11/2021 for final conclusion

END OF REPORT

For ULTRA TECH,

THANE (W) MOIA PIN-400 601 A

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(Authorized Signatory)



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

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

REPORT NO.

AMBIENT AIR QUALITY MONITORING

UT/ELS/REPORT/6593/11-2021

Unit: "Patalaganga"

ISSUE DATE

12/11/2021

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

YOUR REF.

1300022569

Dist.: Raigad-410207, Maharashtra, India

REF. DATE

27/04/2021

SAMPLE PARTICULARS

Location Code

Sampling Plan Ref. No.: Sample Registration Date 02-11/2021 08/11/2021

Sample Location

: Near Dandwadi. (10 Meter off to North-

Date of Sampling

01/11/2021 to 02/11/2021

East Direction towards DM Room)

Time of Sampling Analysis Starting Date 13:50 Hrs. to 13:50Hrs.

Collected By

Co-ordinates: N 18°51'02.90"; E 73°12'51.73" **ULTRA TECH**

Analysis Completion Date

08/11/2021 12/11/2021

Height of Sampler

: 1.0 Meter Sampling Duration: 24 Hours

Sample Lab Code

UT/ELS/008/11-2021

<u>Ambient</u>	Air Temperature : 24.4°C to 33.5	• 0	46.6 % to 78.5 %	
Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Ozone (O₃)∞	IS 5182 (Part 09) : 1974	BDL [DL=10]	μg/m³
2.	Benzene (C6H6)∞	IS 5182 (Part 11) : 2006	1.2	μg/m³
3	Benzo(α)Pyrene (BaP) – Particulate Phase	IS 5182 (Part 12) : 2004	BDL [DL=0.5]	ng/m³
4.	Nickel (Ni)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL [DL=1]	ng/m³
∞: Samplin	g 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	Instrument Used	Make & Model	Calibration Status
Equipment	Respirable Dust Sampler	Make - POLLTECH; Model- PEM-RDS 9; Sr. No. 918	Valid up to - 20/12/2021
Details	Fine Dust Sampler	Make - POLLTECH: Model- PEM-ADS 2.5/10u: Sr. No. 18713	Valid up to = 16/03/2022

- 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.
- 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/6592/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

For ULTRA TECH.

MOM PIN-400 601

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(Authorized Signatory)

Page 1 of 1

Kolkata: +033-40089145 / +91-9674488198 - kolkata@ultratech.in



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QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants



ISO 9001: 2015 TC-5660

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@ultreatech.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

UT/ELS/REPORT/6594/11-2021

ISSUE DATE YOUR REF.

REPORT NO.

12/11/2021 1300022569

REF. DATE

AMBIENT AIR QUALITY MONITORING

27/04/2021

SAMPLE PARTICULARS

02-11/2021

Location Code

: 04

Sampling Plan Ref. No.: Sample Registration Date

08/11/2021

Sample Location

: Material gate (10 Meter off to North-

Date of Sampling

01/11/2021 to 02/11/2021 13:15 Hrs. to 13:15Hrs.

East Direction from Security Cabin) Co-ordinates: N 18°51'11.58"; E 73°12'43.82"

Time of Sampling **Analysis Starting Date**

08/11/2021 12/11/2021 Collected By Height of Sampler

ULTRA TECH 1.0 Meter

.analysis Completion Date Sample Lab Code

UT/ELS/006/11-2021

Sampling Duration :

24 Hours

Ambient Air Temperature

25.1°C to 34.7°C

Relative Humidity 47 2 % to 79 7 %

moiene	All remperature : 25.1 C to 3	14.7 C Relative numberly	: 47.2 % 10 / 9.7 %	
Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	BDL[DL=5]	μg/m³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	25	μg/m³
3.	Particulate Matter (PM ₁₀)	EPA/625/R-96/010a Method IO-2.1	83	μg/m³
4.	Particulate Matter (PM _{2.5})	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	28	μg/m³
5.	Lead (Pb)	IS 5182 (Part 22) : 2004	0.02	μg/m³
6.	Carbon Monoxide (CO) [†]	IS 5182 (Part 10): 1999	1.2	mg/m³
7.	Ammonia (NH₃) [£]	ISC Method 401	44	μg/m³
8.	Arsenic (As)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL[DL=2]	ng/m³
	Period 1 Hr. Detection Limit	£: Sampling Period 2 Hrs. 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	Instrument Used	Make & Model	Calibration Status
	Equipment	Respirable Dust Sampler 🔸	Make POLLTECH; Model- PEM-RDS 8 NL BM; Sr. No. 614	Valid up to - 03/10/2022
	Details	Fine Dust Sampler	Make - POLLTECH; Model- PEM-ADS 2.5/10μ; Sr. No. 18513	Valid up to - 02/03/2022

Note:

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- 4. Any correction invalidates this test report,
- 5. Weather was Sunny & Clear.

6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6595/11-2021 Dated 12/14/2024 for final conclusion

END OF REPORT

For ULTRA TECH.

THANE (W) $\Theta E^{(i)}$ PH-400 601

(Authorized Signatory)



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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@ultreatech.in Visit us at: www.ultratech.in

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

REPORT NO. **ISSUE DATE**

UT/ELS/REPORT/6595/11-2021

Unit: "Patalaganga"

Village: Lohop , Talvali ,Patalganga, Tal.: Khalapur,

YOUR REF.

12/11/2021

1300022569

Dist.: Raigad-410207, Maharashtra, India

REF. DATE

27/04/2021

SAMPLE PARTICULARS

AMBIENT AIR QUALITY MONITORING

Sampling Plan Ref. No.:

02-11/2021

Location Code

: 04

Sample Registration Date

08/11/2021

Sample Location

: Material gate (10 Meter off to North-

Date of Sampling Time of Sampling

01/11/2021 to 02/11/2021 13:15 Hrs. to 13:15Hrs.

East Direction from Security Cabin) Co-ordinates: N 18°51'11.58"; E 73°12'43.82"

Analysis Starting Date Analysis Completion Date 08/11/2021

Collected By **Height of Sampler** : ULTRA TECH : 1.0 Meter

Sample Lab Code

12/11/2021 UT/ELS/006/11-2021

Sampling Duration : 24 Hours

Ambient Air Temperature

25.1°C to 34.7°C

Relative Humidity: 47.2 % to 79.7 %

AIGM PIN-400 601

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Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Ozone (O ₃) [∞]	IS 5182 (Part 09) : 1974	BDL [DL=10]	μg/m³
2.	Benzene (C ₆ H ₆) [∞]	IS 5182 (Part 11) : 2006	1.2	μg/m³
3.	Benzo(α)Pyrene (BaP) – Particulate Phase	IS 5182 (Part 12): 2004	BDL [DL=0.5]	ng/m³
4.	Nickel (Ni)	CPCB Guidelines, Vol-I, NAAQMS/36/2012-13	BDL [DL=1]	ng/m³
∞: Samplin	g 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	Instrument Used	Make & Model	Calibration Status		
Equipment	Respirable Dust Sampler	Make - POLLTECH; Model- PEM-RDS 8 NL BM; Sr. No. 614	Valid up to - 03/10/2022		
Details	Fine Dust Sampler	Make - POLLTECH: Model- PEM-ADS 2.5/10u: Sr. No. 18513	Valid up to = 02/03/2022		

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- 5. Weather was Sunny & Clear.
- 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/6594/11-2021 Dated 12/11/2021 for final conclusion,

END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)



Environmental Consultancy & Laboratory Environmental Lab [Gazetted by MoEF&CC - GOI until 01.06.2021] Environmental Lab.[Accredited by NABL - ISO/IEC 17025:2005 uniti 27.05.2019]

ISO 9001: 2015

OHSAS 18001: 2007

May.

COMPOSITE REPORT

Analysis Results Summary of Ambient Air Quality Monitoring for November 2021 [Monitoring Frequency-Monthly]

	PAI	RTICULARS			SAMPLING DETAILS			
		VI ICULANS			Tank Form area	Switch Yard Area	Near Dandwadi	Material Gate
	Date	Of Sampling			01/11/2021 to 02/11/2021	01/11/2021 to 02/11/2021	01/11/2021 to 02/11/2021	01/11/2021 to 02/11/2021
	Samı	ole Lab Code		7	UT/ELS/007/11-2021	UT/ELS/009/11-2021	UT/ELS/008/11-2021	UT/ELS/006/11-2021
	Pa	nart Na/e			UT/ELS/REPORT/ 6588/11-2021 &	UT/ELS/REPORT/ 6590/11-2021	UT/ELS/REPORT/ 6592/11-2021 &	UT/ELS/REPORT/ 6594/11-2021 &
	Report No/s.			UT/ELS/REPORT/ 6589/11-2021	UT/ELS/REPORT/ 6591/11-2021	UT/ELS/REPORT/ 6593/11-2021	UT/ELS/REPORT/ 6595/11-2021	
Sr. No	PARAMETER	TWA	NAAQS	UNIT	Particular annius de la compa		per l'agre parente.	
	Sulphur Dioxide	Annual*	50	μg/m³	BDL [DL=5]	BDL [DL=5]	BDL [DL=5]	PDI [DIE]
	(SO ₂)	24 Hours**	80	μg/ пг	լջ-ուլյու-ոլ	որը [րը–၁]	อบน [มน=อ]	BDL [DL=5]
02.	Oxides of Nitrogen	Oxides of Nitrogen Annual* 20	μg/m³	21	28	26	25	
02.	(NO _x)	24 Hours**	. 80 ~	µg/III	m ³ 21 28		. 20	25
03.	Particulate Matter (PM ₁₀)	Annual*	60	μg/m³	92	88	98	83
		24 Hours**	100					
04.	Particulate Matter (PM _{2.5})	Annual*	40	μg/m³	31	33	35	28
		24 Hours**	60					
05.	Ozone (O ₃)	08 Hours*	100	μg/m³	BDL [DL=10]	BDL [DL=10]	BDL [DL=10]	BDL [DL=10]
	(01 Hours**	180		DDB [DB-10]	DDB [DB-10]	222 [222-20]	DDL [DL-10]
06.	Lead (Pb)	Annual*	0.50	μg/m³	BDL [DL=0.01]	0.02	0.01	0.02
	(. 2)	24 Hours**	1.0	r6/	222[22 0,02]			
07.	Carbon Monoxide	08 Hours**	02	mg/m³	1.3	1,3	1.4	1.2
	(CO)	01 Hours**	04	6/ ***		210		1.4
08.	Ammonia (NH3)	Annual*	100	μg/m³	47	42	54	44
T	minimoma (1113)	24 Hours**	400	р Б/111	**	44	J 7	44
J9.	Benzene (C ₆ H ₆)	Annual*	05	μg/m³	1.1	1.3	1.2	1.2
10.	Benzo(a)Pyrene (BaP) Particulate Phase	Annual*	01	ng/m³	BDL [DL=0.5]	BDL [DL=0.5]	BDL [DL=0.5]	BDL [DL=0.5]
11.	Arsenic (As)	Annual*	06	ng/m³	BDL[DL=2]	BDL[DL=2]	BDL[DL=2]	BDL[DL=2]
12.	Nickel (Ni)	Annual*	20	ng/m³	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.

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

> THANE (W) INDIA PIN-400 601

^{** 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.



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STP/ETP/WTP Project Management Consultants



ISO 9001: 2015 ISO 45001: 2018

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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/6635/11-2021 12/11/2021

: UT/ELS/029/11-2021

ULTRA TECH

ISSUE DATE YOUR REF.

1300022569

REF. DATE SOURCE NOISE LEVEL MONITORING

27/04/2021

SAMPLE PARTICULARS:

Average Temperature

Noise Source Details

Wind Speed

Sampling Plan Ref. No. **Date of Monitoring**

: 02-11/2021

: 02/11/2021

: 30.5 °C

 $: 0.5 \, \text{m/s}$

Sample Lab Code

Survey Done By

Relative Humidity

76.9 %

Weather Condition : Clear : 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)
	Measurement Point No. 01 (in front of Northern Face of D. G. Set)	
1	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	101.8
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.6
	Measurement Point No. 02 (in front of Northern Face of D. G. Set)	
2	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	103.6
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.3
	Measurement Point No. 03 (in front of Western Face of D. G. Set)	
3	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	102.4
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	75.1
	Measurement Point No. 04 (in front of Southern Face of D. G. Set)	
4	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	101.9
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.2 .
	Measurement Point No. 05 (in front of Southern Face of D. G. Set)	
5	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)	72.9
	Measurement Point No. 06 (in front of Eastern Face of D. G. Set)	
6	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	101.9
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.6
	Measurement Point No. 07 (On top of D. G. Set)	
7	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
_	Measurement Point No. 08 (On top of D. G. Set)	
. 8	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
***************************************	Measurement Point No. 09 (in front of North-Eastern Corner of D. G. Set)	\
9	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	102.7
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.1
	$//m$ ($^{\circ}$ THANE (W)	<u> </u>

Page 1 of 2

AICM PIN-480 601

H.O.: Unit No. 224,225,206, Jai Commercial Complex, Eastern Express Highway, Opp. Cadbury Factory, Knopat, Thane 109 400 601, Maharashtra, India. Tel: +91-22+2534 27 76 / 2538 01 98 / 2533 14 38 Fax: +91-22-2542 96 50 Email: sales@ultratech.in



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants



ISO 9001 : 2015 ISO 45001 : 2018

Lab: Survey No. 93/A, Conformity Hissa No.2 G.V.Brothers Bldg., Bata Compound, Khopat, Near Flower Valley, Thane (West) - 400 601, Maharashtra, Índia. 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/6635/11-2021

ISSUE DATE
YOUR REF.

12/11/2021 1300022569

REF. DATE : 27/04
SOURCE NOISE LEVEL MONITORING

27/04/2021

SAMPLE PARTICULARS:

Sampling Plan Ref. No. : 0 Date of Monitoring : 0

: 02-11/2021 : 02/11/2021

Average Temperature : 30.5 °C

Survey Done By Relative Humidity

Sample Lab Code

: UT/ELS/029/11-2021 : ULTRA TECH

: 76.9 %

Wind Speed Noise Source Details : 0.5 m/s
 : Clear
 : 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)
	Measurement Point No. 10 (in front of North-Western Corner of D. G. Set)	
10	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	101.6
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.8
	Measurement Point No. 11 (in front of South-Western Corner of D. G. Set)	
11	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	102.5
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.9
	Measurement Point No. 12 (in front of South-Eastern Corner of D. G. Set)	
12	i. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	101.4
	ii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.6
verage Noi	se Level of D. G. Set under study at 0.5 meter distance - While Acoustic Room opened	102.1
verage Noi	se Level of D. G. Set under study at 0.5 meter distance - While Acoustic Room closed	74.0

Opinions / Interpretations:

The insertion loss of 28.1 dB(A) achieved at a distance 0.5 meter away from an Acoustic Room resulting in source noise level being reduced to 74.0 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 parallelepipedmethod is used to measure noise level, detailed description of location and measurement points is presented in schematic diagram as Annexure-II

Sampling Equipment	Instrument Used	Make & Model	Calibration Status	
Details	Sound Level Meter	Make -3 M solution; 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.
- 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 ULTRATECH,

IHANE (W) INDIA PIN-400 601

CONSULTANC

Authorized Signatory)

Page 2 of 2



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Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

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ISO 9001: 2015 ISO 45001: 2018

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TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

: 02-11/2021

: 02/11/2021

Unit: "Patalaganga"

SAMPLE PARTICULARS Sampling Plan Ref. No.

Village: Lohop , Talvali ,Patalganga, Tal.: Khalapur,

Dist.: Raigad-410207, Maharashtra, India

REPORT NO. **ISSUE DATE**

UT/ELS/REPORT/6636/11-2021 12/11/2021

YOUR REF.

1300022569

REF. DATE

27/04/2021

SOURCE NOISE LEVEL QUALITY MONITORING

Sample Lab Code

: UT/ELS/028/11-2021

Survey Done By

ULTRA TECH

: 30.4 °C

76.8 %

Ambient Temperature Wind Speed **Noise Source Details**

Date of Monitoring

: 0.5 m/s

Relative Humidity Weather Condition

: Clear

: D. G. Set of Capacity 250 KVA(River Side) with Acoustic Enclosure Mounted on Reinforced Concrete Cement Base

Make:Kirloskar., Model No.: 250 DWS/2009/1694, Sr. No.: 8000002087-2092

Dimensions of D. G. Set: 4.5 meter X 1.7 Meter X 2.5 Meter (L X B X H) Fuel Used: Diesel, Fuel Consumption: 25 liter/hours.

Sr. No.	Location	Noise Level Reading in dB(A)
	Measurement Point No. 01 (in front of Southern Face of D. G. Set)	
. 1	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	94.7
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.4
	Measurement Point No. 02 (in front of Southern Face of D. G. Set)	
2	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	95.8
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.3
	Measurement Point No. 03 (in front of Eastern Face of D. G. Set)	
3	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	93.6
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	72.9
	Measurement Point No. 04 (in front of Northern Face of D. G. Set)	
4	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	94.7
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	71.5
	Measurement Point No. 05 (in front of Northern Face of D. G. Set)	
. 5	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	95.3
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.8
	Measurement Point No. 06 (in front of Western Face of D. G. Set)	
6	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	93.7
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.6
	Measurement Point No. 07 (On top of D. G. Set)	
7	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	94.4
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	72.4
	Measurement Point No. 08 (On top of D. G. Set)	
8	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	91.4
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	75.1
	Measurement Point No. 09 (in front of South-Western Corner of D. G. Set)	N.
9	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	92.8
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.8

Page 2 of 2

PIN-400 601 S



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QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants



12/11/2021

1300022569

27/04/2021

76.8 %

Clear

ISO 9001 : 2015 ISO 45001 : 2018 TC-5600

UT/ELS/REPORT/6636/11-2021

UT/ELS/028/11-2021

ULTRA TECH

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

Sample Lab Code

Relative Humidity

Survey Done By

REPORT NO.

ISSUE DATE

YOUR REF.

REF. DATE

SOURCE NOISE LEVEL QUALITY MONITORING

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

Unit: "Patalaganga"

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

Dist.: Raigad-410207, Maharashtra, India

SAMPLE PARTICULARS

Sampling Plan Ref. No. **Date of Monitoring**

Ambient Temperature

Wind Speed **Noise Source Details** : 02-11/2021 : 02/11/2021

 $: 0.5 \, \text{m/s}$

: 30.4 °C

Weather Condition : D. G. Set of Capacity 250 KVA(River Side) with Acoustic Enclosure Mounted on Reinforced Concrete

Cement Base Make:Kirloskar., Model No.: 250 DWS/2009/1694,Sr. No.:8000002087-2092 Dimensions of D. G. Set: 4.5 meter X 1.7 Meter X 2.5 Meter (L X B X H)

Fuel Used: Diesel, Fuel Consumption: 25 liter/hours.

Sr. No.	Location	Noise Level Reading in dB(A)
	Measurement Point No. 10 (in front of South-Eastern Corner of D. G. Set)	
10	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	93.6
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.6
	Measurement Point No. 11 (in front of North-Eastern Corner of D. G. Set)	
11	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	92.7
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	74.7
	Measurement Point No. 12 (in front of North-Western Corner of D. G. Set)	
12	iii. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Opened)	91.5
	iv. At 0.5 meter distance from D. G. Set (When Acoustic Room Is Closed)	73.6
verage Noi	se Level of D. G. Set under study at 0.5 meter distance - While Acoustic Room opened	93.8
verage Noi	se Level of D. G. Set under study at 0.5 meter distance - While Acoustic Room closed	73.8

Opinions / Interpretations:

The insertion loss of 20.0 dB(A) achieved at a distance 0.5 meter away from an Acoustic Enclosure resulting in source noise level being reduced to 73.8 dB(A) from 93.8 dB(A) due to acoustic effect of an enclosure 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 parallelepipedmethod is used to measure noise level, detailed description of location and measurement points is presented in schematic diagram as Annexure-II

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

Note:

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- 2. This test report may not be reproduced in part, without the permission of this laboratory.

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END OF REPORT

For ULTRATECH,

THANE (W) INDIA PIN-400 601 \$

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Page 3 of 2

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ISO 9001: 2015 ISO 45001: 2018

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/6606/11-2021 12/11/2021

ISSUE DATE YOUR REF.

1300022569

REF. DATE

AMBIENT NOISE LEVEL MONITORING

27/04/2021

SAMPLE PARTICULARS Sampling Plan Ref. No.

02-11/2021

Sample Lab Code

UT/ELS/010/11-2021

			Noise Level Reading in dB(A) Leq										
Sr. No.	Location	Time (Une)		Day dB(A))	Time (Hrs)	Night dB(A)						
		Time (Hrs)	$\mathbf{L}_{\mathbf{eq}}$	$\mathbf{L}_{\mathbf{min}}$	Lmax		\mathbf{L}_{eq}	L _{min}	Lmax				
01.	Near Material Gate	06:00 to 07:00	62.0	57.8	71.0	22:00 to 23:00	60.1	53.3	69.5				
	Co-ordinates:	07:00 to 08:00	66.4	59.1	77.9	23:00 to 00:00	68.6	55.3	82.0				
	N-18°51'10.73", E-73°12'43.94"	08:00 to 09:00	68.7	59.7	81.3	00:00 to 01:00	58.6	54.4	66.1				
	-	09:00 to 10:00	63.3	58.0	74.3	01:00 to 02:00	66.3	54.1	77.0				
		10:00 to 11:00	73.8	60.5	86.2	02:00 to 03:00	67.1	57.5	78.6				
		11:00 to 12:00	68.8	57.7	80.8	03:00 to 04:00	68.6	55.3	81.7				
		12:00 to 13:00	67.1	57.9	79.4	04:00 to 05:00	67.0	53.3	81.6				
		13:00 to 14:00	65.1	59.6	74.8	05:00 to 06:00	59.7	54.5	69.4				
		14:00 to 15:00	70.3	61.1	82.4								
		15:00 to 16:00	66.9	59.4	78.3								
		16:00 to 17:00	69.0	60.4	81.1								
		17:00 to 18:00	66.4	59.1	77.8								
		18:00 to 19:00	65.4	60.0	74.6								
		19:00 to 20:00	67.9	61.5	78.9								
		20:00 to 21:00	69.8	59.5	79.8								
		21:00 to 22:00	68.1	59.6	79.3								
		L10	69.3			Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND							
		Lso		62.1		CONTROL RULES. 2000 (See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise							
		L90		59.4									
		Day Leq		68.3			75						
)		Night Leg		66.0			70						

Opinions / Interpretations:

The observed values for LeqdB(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.

THANE (W)

PIN-400 601

PIN CONSULTANT

Note

1. Monitoring area coming under industrial Zone

Day Time - 06:00 Hrs to 22:00 Hrs and Night Time - 22:00 Hrs to 06:00 Hrs

Sampling Equipment	Instrument Used	Make & Model	Calibration Status		
Details	Sound Level Meter	Make -LUTORN; Model SL4033SDSr. No.Q665560	Valid up to - 13/10/2022		

Note:

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TC-5600

ISO 9001:2015 ISO 45001: 2018

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.

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/6607/11-2021 12/11/2021

ISSUE DATE YOUR REF.

1300022569

REF. DATE

27/04/2021

AMBIENT NOISE LEVEL MONITORING

SAMPLE PARTICULARS

Sample Lab Code

UT/ELS/013/11-2021

Sampling Plan Ref. No. **Date of Monitoring**

02-11/2021 01/11/2021 to 02/11/2021

Survey Done By

ULTRA TECH

	Location	Noise Level Reading in dB(A) Leq									
Sr. No.		Time (Use)		Day dB(A)		Time (Une)	Night dB(A)				
		Time (Hrs)	L_{eq}	Lmin	Lmax	Time (Hrs)	$\mathbf{L}_{\mathbf{eq}}$	Lmin	Lmax		
01.	Near Switch Yard Area	06:00 to 07:00	61.5	57.4	68.6	22:00 to 23:00	63.7	55.9	75.€		
	Co-ordinates:	07:00 to 08:00	63.1	56.1	73.2	23:00 to 00:00	58.5	56.0	66.2		
	N-18°51′11.22″, E-73°12′48.88″	08:00 to 09:00	64.4	57.2	75.0	00:00 to 01:00	57.8	55.7	63.8		
	~	09:00 to 10:00	64.5	55.6	76.0	01:00 to 02:00	56.6	55.2	60.0		
		10:00 to 11:00	66.0	57.0	77.6	02:00 to 03:00	56.7	55.3	58.		
		11:00 to 12:00	64.6	55.4	75.9	03:00 to 04:00	56.3	55.1	59.		
		12:00 to 13:00	61.9	54.5	71.6	04:00 to 05:00	56.3	55.1	60.		
		13:00 to 14:00	59.5	51.9	66.5	05:00 to 06:00	58.1	55.6	65.		
		14:00 to 15:00	63.7	53.9	75.1		**	**			
		15:00 to 16:00	64.6	51.7	76.8						
		16:00 to 17:00	63.6	51.8	75.3	**					
		17:00 to 18:00	65.8	52.0	77.5		**	**			
		18:00 to 19:00	64.4	56.9	74.8						
		19:00 to 20:00	64.5	55.6	75.6						
		20:00 to 21:00	60.9	54.4	72.4	**	**		•		
		21:00 to 22:00	57.8	53.5	65.8				+		
		Lio		64.8		Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND					
		L50		58.3		CONTROL) RULES, 2000					
		L90	56.0				See rule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise				
		Day Leq		63.7			75				
		Night Leq		58.8			70				

Opinions / Interpretations:

The observed values for LeqdB(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.

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INDIA 5

Note:

1. Monitoring area coming under industrial Zon

2. Day Time - 06:00 Hrs to 22:00 Hrs and Night Time - 22:00 Hrs to 06:00 Hrs

Sampling Equipment	Instrument Used	Make & Model	Calibration Status		
Details	Sound Level Meter	Make –Lutron; Model – SL4033SD Sr. No. Q660350	Valid up to - 13/10/2022		

Note:

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ISO 9001: 2015

ISO 45001: 2018

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/6608/11-2021

ISSUE DATE YOUR REF.

12/11/2021

REF. DATE

1300022569 27/04/2021

AMBIENT NOISE LEVEL MONITORING

SAMPLE PARTICULARS Sampling Plan Ref. No.

: 02-11/2021 Sample Lab Code

UT/ELS/012/11-2021

				Noise	Level Read	ling in dB(A) Leq			
Sr. No.	Location	Time (Hrs)		Day dB(A)	Time (Uve)	Night dB(A)		
		Time (ms)	L_{eq}	Lmin	Lmax	Time (Hrs)	L_{eq}	Lmin	Lmax
01.	Near Dandwadi	06:00 to 07:00	67.9	60.3	74.5	22:00 to 23:00	62.8	61.5	68.6
	Co-ordinates:	07:00 to 08:00	67.3	58.2	75.6	23:00 to 00:00	61.8	61.1	65.
	N-18°51'02.13", E-73°12'50.75"	08:00 to 09:00	68.5	59.7	75.8	00:00 to 01:00	65.3	61.0	74.:
	Ť	09:00 to 10:00	67.3	58.4	75.4	01:00 to 02:00	61.7	57.4	69.
		10:00 to 11:00	68.3	60.0	75.8	02:00 to 03:00	62.0	57.7	69.9
		11:00 to 12:00	68.4	59.8	77.0	03:00 to 04:00	61.9	57.5	68.
		12:00 to 13:00	68,3	56.7	75.7	04:00 to 05:00	63.4	57.3	71.
		13:00 to 14:00	68.6	58.5	76.5	05:00 to 06:00	68.8	61.3	74.
		14:00 to 15:00	69.0	57.3	76.4				
		15:00 to 16:00	72.7	55.5	87.1				
		16:00 to 17:00	67.7	57.4	76.3				
	}	17:00 to 18:00	72.2	56.9	83.7				
		18:00 to 19:00	71.9	56.2	86.2				
		19:00 to 20:00	64.5	55.6	73.6			**	
		20:00 to 21:00	61.1	58.5	66.9				
		21:00 to 22:00	66.5	61.4	74.7				
		L ₁₀		70.1		Limits in dB(A) Leg as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000			
		L ₅₀		64.3					
		L90		60.4		(See rule 3(1) a Standar	nd 4(1)) Ai ds in respe		Quality
		Day Leq		68.9			75		
		Night Lea		64.2		70			

Opinions / Interpretations:

The observed values for LeadB(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	Instrument Used	Make & Model	Calibration Status		
Details	Sound Level Meter	Make –Lutron; Model – SL4033SD; Sr. No. Q646217	Valid up to – 13/10/2022		

Note:

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For ULTRATECH.

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Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

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STP/ETP/WTP Project Management Consultants



TC-5606 ISO 9001 : 2015

ISQ 45001 : 2018

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/6609/11-2021

ISSUE DATE
YOUR REF.

12/11/2021 1300022569

REF. DATE

27/04/2021

AMBIENT NOISE LEVEL MONITORING

SAMPLE PARTICULARS Sampling Plan Ref. No.

: 02-11/2021

Sample Lab Code

: UT/ELS/011/11-2021

Date of Monitoring : 01/11/2021 to 02/11/2021

Survey Done By

: ULTRA TECH

			Noise Level Reading in dB(A) Leq									
Sr. No.	Location	772	Day dB(A)	Trime (Time)	Night dB(A)						
		Time (Hrs)	Leq	Lmin	Lmax	Time (Hrs)	L_{eq}	Lmin	Lma			
01.	Near Tank Form Area	06:00 to 07:00	70.6	67.6	79.8	22:00 to 23:00	67.1	63.8	73.			
	Co-ordinates:	07:00 to 08:00	70.6	68.7	76.2	23:00 to 00:00	69.3	60.9	79.			
	N-18°50′54.50″, E-73°12′43.35″	08:00 to 09:00	71.3	69.7	75.3	00:00 to 01:00	69.4	65.0	76.			
	~	09:00 to 10:00	70.7	68.6	76.5	01:00 to 02:00	64.8	64.1	67.			
		10:00 to 11:00	69.5	67.6	73.5	02:00 to 03:00	69.2	68.6	70.			
		11:00 to 12:00	69.5	67.9	73.5	03:00 to 04:00	69.7	69.0	70.			
		12:00 to 13:00	70.4	66.0	77.8	04:00 to 05:00	69.6	68.9	70.			
		13:00 to 14:00	70.5	69.5	74.1	05:00 to 06:00	69.5	68.6	71.			
		14:00 to 15:00	68.8	65.8	76.0							
		15:00 to 16:00	67.7	60.0	79.4							
		16:00 to 17:00	66.5	59.2	78.3							
	1	17:00 to 18:00	66.2	62.1	74.9							
		18:00 to 19:00	69.8	65.3	80.4	**						
		19:00 to 20:00	71.7	68.0	80.8							
		20:00 to 21:00	72.2	68.3	79.9							
		21:00 to 22:00	69.0	67.7	73.9							
		L ₁₀	71.4				Limits in dB(A) Leq as per THE NOISE POLLUTION (REGULATION AND					
		Lso	68.2 <u>CONTROL</u>) RULES, 2000									
		L90	67.5				ule 3(1) and 4(1)) Ambient Air Quality Standards in respect of Noise					
		Day Leq		70.0			75					
		Night Leq		68.8			70					

Opinions / Interpretations:

The observed values for LeqdB(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	Instrument Used	Make & Model	Calibration Status		
Details	Sound Level Meter	Make –LUTORN; Model – SL4033SDSr. No. Q665568	Valid up to - 13/10/2022		

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 ULTRATECH,

THANE (W)
INDIA
INDIA
PIN-400 601

Authorized Signatory



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants



ISO 9001: 2015 ISO 45001: 2018

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/6628/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

WASTE WATER SAMPLE ANALYSIS

27/04/2021

SAMPLE PARTICULARS

Sampling Plan Ref. No.

02-11/2021

02/11/2021

Sample Type Sample Location **Untreated Sewage** At Collection Tank

Sample Registration Date Date & Time of Sampling

01/11/2021 at 14:45Hrs

Analysis Starting Date Analysis Completion Date 02/11/2021

12/11/2021

Sample Quantity & :

Packing Details

1L in Wide Mouth Glass Bottle for Oil and

Grease and 2L In Plastic Container for

other parameters.

Sample Collected By **ULTRA TECH** Sample Lab Code UT/ELS/003/11-2021

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	рН	IS 3025 (Part 11) : 1983	7.2	•
2.	Total Dissolved Solids	IS 3025 (Part 16) : 1984	210	mg/L
3.	Total Suspended Solids	IS 3025 (Part 17) : 1984	33	mg/L
4.	Oil & Grease	IS 3025 (Part 34) : 1988	4	mg/L
5.	Biochemical Oxygen Demand (27°C, 3Days)	IS 3025 (Part 39) : 1991	60	mg/L
6.	Chemical Oxygen Demand	IS 3025 (Part 43) : 1992	246	mg/L

Opinions / Interpretations: NIL

- 1. This test report refers only to the sample tested.
- 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 THANE (W) INDIA PIN-400 601 (Authorized Signatory) CONSULTAN



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Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants



ISO 9001: 2015 ISO 45001: 2018

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"

Dist: Raigad-410207, Maharashtra, India

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

YOUR REF. 1300022569 REF. DATE

INDIA

AL CONSULTA

WASTE WATER SAMPLE ANALYSIS

REPORT NO.

ISSUE DATE

27/04/2021

12/11/2021

SAMPLE PARTICULARS

Sampling Plan Ref. No.

Sample Collected By

Sample Lab Code

Sample Registration Date

02-11/2021

02/11/2021

Sample Type Sample Location **Treated Sewage**

After Carbon Filter

Date & Time of Sampling **Analysis Starting Date**

01/11/2021 at 14:50Hrs 02/11/2021

Analysis Completion Date

12/11/2021 **ULTRA TECH** Sample Quantity & :

1L in Wide Mouth Glass Bottle for Oil and Grease and 2L In Plastic Container for

UT/ELS/REPORT/6629/11-2021

Packing Details

other parameters.

	• •		· ·	
Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	pH	IS 3025 (Part 11): 1983	7.0	<u> </u>
2.	Total Dissolved Solids	IS 3025 (Part 16) : 1984	204	mg/L
3.	Total Suspended Solids	IS 3025 (Part 17): 1984	BDL[DL=1]	mg/L
4.	Oil & Grease	IS 3025 (Part 34) : 1988	BDL[DL=2]	mg/L
5.	Biochemical Oxygen Demand (27°C, 3Days)	IS 3025 (Part 39) : 1991	2.9	mg/L
6.	Chemical Oxygen Demand	IS 3025 (Part 43): 1992	12	mg/L

DL- Detection Limit

UT/ELS/004/11-2021

Opinions / Interpretations:

1. This test report refers only to the sample tested.

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

BDL-Below Detection Limit

uthorized Signatory)



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TC-5600

ISO 9001 : 2015 ISO 45001 : 2018

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/6630/11-2021

Unit: "Patalaganga"

ISSUE DATE

WASTE WATER SAMPLE ANALYSIS

12/11/2021 1300022569

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur, Dist.: Raigad-410207, Maharashtra, India

YOUR REF. REF. DATE

27/04/2021

SAMPLE PARTICULARS

Sample Type

Treated Effluent

Sampling Plan Ref. No. Sample Registration Date 02-11/2021 02/11/2021

Sample Location:

Settling pond outlet

Date & Time of Sampling **Analysis Starting Date**

01/11/2021 at 15:15Hrs

02/11/2021

Sample Quantity:

1L in Wide Mouth Glass Bottle for Oil

Analysis Completion Date Sample Collected By

12/11/2021 **ULTRA TECH**

& Packing

and Grease and 2L In Plastic Container

Sample Lab Code

UT/ELS/005/11-2021

Details

for other parameters.

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	рН	IS 3025 (Part 11): 1983	7.3	
2.	Total Dissolved Solids	IS 3025 (Part 16): 1984	409	mg/L
3.	Total Suspended Solids	IS 3025 (Part 17) : 1984	13	mg/L
4.	Oil & Grease	IS 3025 (Part 34) : 1988	BDL[DL=2]	mg/L
5.	Biochemical Oxygen Demand (27°C, 3Days)	IS 3025 (Part 39): 1991	35.2	mg/L
6.	Chemical Oxygen Demand	IS 3025 (Part 43): 1992	150	mg/L

Opinions / Interpretations:

1. This test report refers only to the sample tested.

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 THANE (W) INDIA PIN-400 601 (Authorized Signatory) THE CONCULTANCE



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TC-5600

ISO 9001: 2015 ISO 45001: 2018

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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.

TEST REPORT

ISSUÈD TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

REPORT NO.

UT/ELS/REPORT/6631/11-2021

Unit: "Patalaganga"

ISSUE DATE

12/11/2021

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

YOUR REF.

1300022569

Dist.: Raigad-410207, Maharashtra, India

REF. DATE

27/04/2021

SAMPLE PARTICULARS

WASTE WATER SAMPLE ANALYSIS

Sampling Plan Ref. No.

02-11/2021

Sample Type

: Untreated Effluent

Sample Registration Date Date & Time of Sampling

02/11/2021 01/11/2021 at 14:30Hrs Sample Location

: At Collection Tank

Analysis Starting Date Inalysis Completion Date 02/11/2021 12/11/2021

Sample Quantity &: 1L in Wide Mouth Glass Bottle for Oil and Grease, 500ml In Plastic Container

Sample Collected By

ULTRA TECH

Packing Details

for COD and 2L In Plastic Container for

Sr. No.	Test Parameter -	Test Method	Test Result	Unit
1.	рН	IS 3025 (Part 11) : 1983	7.5	
2.	Temperature	IS 3025 (Part 09): 1984	28.3	°C
3.	Total Dissolved Solids	IS 3025 (Part 16): 1984	272	mg/L
4.	Total Suspended Solids	IS 3025 (Part 17) : 1984	76	mg/L
5.	Oil & Grease	IS 3025 (Part 39): 1991	. 6	mg/L
6.	Biochemical Oxygen Demand (27°C, 3Days)	IS 3025 (Part 44): 1993	113	mg/L
7.	Chemical Oxygen Demand	IS 3025 (Part 58) : 2006	404	mg/L
8.	Sulphate as SO ₄ ² ·	APHA 23rdEd. 4500- SO42- E	25	mg/L
9,	Chlorides as Cl-	IS 3025 (Part 32) : 1988	108	mg/L
10.	Zinc as Zn	IS: 3025 (Part 49) : 1994	BDL[DL=0.03]	mg/L
11.	Copper as Cu	IS: 3025 (Part 42): 1992	BDL[DL=0.03]	mg/L
12.	Iron as Fe	IS: 3025 (Part 53) : 2003	BDL[DL=0.09]	mg/L
13.	Phosphate as PO ₄ 3P	APHA 23rdEd. 4500 P D	BDL[DL=0.01]	mg/L
14.	Chromium as Cr	IS: 3025 (Part 52) : 2003	BDL[DL=0.18]	mg/L

Opinions / Interpretations:

NIL

1. This test report refers only to the sample tested.

2. This test report may not be reproduced in part, without the permission of this laboratory.

3. Any correction invalidates this test report.

4. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6632/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT

For ULTRA TECH

INDIA PIN-400 601

CONSULTANC

(Authorized Signatory)



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

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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. 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/6632/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

: Untreated Effluent

: At Collection Tank

REF. DATE

27/04/2021

SAMPLE PARTICULARS

Sampling Plan Ref. No. Sample Registration Date : 02-11/2021

: 02/11/2021

: 01/11/2021 at 14:30Hrs

Date & Time of Sampling **Analysis Starting Date**

02/11/2021

Analysis Completion Date : 12/11/2021

: ULTRA TECH

Sample Quantity & : 2L In Plastic Container

WASTE WATER SAMPLE ANALYSIS

Packing Details

Sample Location

Sample Type

Sample Collected By Sample Lab Code

UT/ELS/001/11-2021

Sr. No.	Test Parame	eter	Test Method	Test Result	Unit	
1.	Residual Chlorine	`	IS: 3025 (Part 26) : 1986	BDL[DL=0.1]	mg/L	
DL- Detection	on Limit			BDL-Below Detection Limit		

NIL Opinions / Interpretations:

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- 4. Parameter/s tested is/are not covered under NABL scope.
- 5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6631/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT --

For ULTRA TECH

THANE (W)

TONSULTANCE

PIN-400 601 (Authorized Signatory)



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

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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/6633/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

WASTE WATER SAMPLE ANALYSIS

27/04/2021

SAMPLE PARTICULARS

02-11/2021

02/11/2021

Sample Type Sample Location : Treated Effluent : After Carbon Filter

Sample Registration Date Date & Time of Sampling

Sampling Plan Ref. No.

01/11/2021 at 14:35Hrs

Analysis Starting Date Analysis Completion Date 02/11/2021

12/11/2021 **ULTRA TECH**

Sample Quantity & : 1L in Wide Mouth Glass Bottle for Oil and Grease,

Packing Details

500ml In Plastic Container for COD and 2L In Plastic Container for other parameters

Sample Collected By Sample Lab Code

UT/ELS/002/11-2021

Sr. No.	Test Parameter -	Test Method	Test Result	Unit
15.	pH	IS 3025 (Part 11): 1983	7.3	-
16.	Temperature	IS 3025 (Part 09) : 1984	28.5	°C
17.	Total Dissolved Solids	IS 3025 (Part 16): 1984	206	mg/L
18.	Total Suspended Solids	IS 3025 (Part 17): 1984	8	mg/L
19.	Oil & Grease	IS 3025 (Part 39): 1991	BDL[DL=2]	mg/L
20.	Biochemical Oxygen Demand (27°C, 3Days)	IS 3025 (Part 44) : 1993	7.4	mg/L
21.	Chemical Oxygen Demand	IS 3025 (Part 58): 2006	28	mg/L
22.	Sulphate as SO ₄ ² ·	APHA 23rdEd. 4500- SO42- E	28	mg/L
23.	Chlorides as Cl-	IS 3025 (Part 32) : 1988	23	mg/L
24.	Zinc as Zn	IS: 3025 (Part 49) : 1994	BDL[DL=0.03]	mg/L
25.	Copper as Cu	IS: 3025 (Part 42) : 1992	BDL[DL=0.03]	mg/L
26.	Iron as Fe	IS: 3025 (Part 53) : 2003	BDL[DL=0.09]	mg/L
27.	Phosphate as PO ₄ 3P	APHA 23rdEd. 4500 P D	BDL[DL=0.01]	mg/L
28.	Chromium as Cr	IS: 3025 (Part 52) : 2003	BDL[DL=0.18]	mg/L

Opinions / Interpretations:

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4. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6634/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT

THANE (W) INDIA

CONSULTAN

PIN-400 601

(Authorized Signatory)



Lab, Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025;2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants

ISO 9001: 2015 ISO 45001: 2018

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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/6634/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

WASTE WATER SAMPLE ANALYSIS

REF. DATE

27/04/2021

SAMPLE PARTICULARS

Sampling Plan Ref. No. Sample Registration Date 02-11/2021 02/11/2021

Sample Type Sample Location : Treated Effluent : After Carbon Filter

Date & Time of Sampling **Analysis Starting Date**

Analysis Completion Date

01/11/2021 at 14:35Hrs

02/11/2021

12/11/2021

Sample Quantity & : 2L In Plastic Container

Packing Details ULTRA TECH

Sample Collected By

UT/ELS/002/11-2021 Sample Lab Code

Sr. No.	Test Paramet	er	Test Method	Test Result	Unit
2.	Residual Chlorine	\	IS: 3025 (Part 26) : 1986	BDL[DL=0.1]	mg/L
DL- Detection	on Limit			BDL-Below Detection Limit	

Opinions / Interpretations:

Note:

NIL

1. This test report refers only to the sample tested.

2. This test report may not be reproduced in part, without the permission of this laboratory.

3. Any correction invalidates this test report.

4. Parameter/s tested is/are not covered under NABL scope.

5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6633/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

For ULTRA TECH INDIA PIN-400 601 Authorized Signatory) ONSULTAN



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization STP/ETP/WTP Project Management Consultants



ISO 9001: 2015 ISO 45001: 2018

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/6596/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS

Sampling Plan Ref. No.:

02-11/2021

Sample Registration Date

08/11/2021

02/11/2021

Time of Sampling Analysis Starting Date Analysis Completion Date

Date of Sampling

Sample Lab Code

08/11/2021

12/11/2021

UT/ELS/015/11-2021

10:15 Hrs. to 18:15Hrs.

WORKPLACE AIR QUALITY MONITORING **Location Code**

Sample Location

Ware House Canteen Area

Collected By Height of Sampler **ULTRA TECH** 1.0 Meter

Sampling Duration

08 Hours

Ambient Air Temperature 24:7°C to 35.2°C

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	0.01	mg/m³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	0.03	mg/m³

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

	Instrument Used	Make & Model	Calibration Status
Sampling Equipment	Respirable Dust Sampler	Make – POLLTECH; Model –PEM RDS 9; Sr. No. 315	Valid up to - 03/10/2022
Details	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.
- 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/6597/11-2021 Dated 12/11/2021for final conclusion.

– END OF REPORT –

INDIA PIN-400 601

CONSULTANC

For ULTRA TECH.

(Authorized Signatory)



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants

ISO 9001: 2015 ISO 45001: 2018

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/6597/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS

02-11/2021

Sample Registration Date **Date of Sampling**

Sampling Plan Ref. No.:

08/11/2021 02/11/2021

Time of Sampling **Analysis Starting Date Analysis Completion Date**

Ambient Air Temperature

Sample Lab Code

10:15 Hrs. to 18:15Hrs. 08/11/2021

12/11/2021

UT/ELS/015/11-2021 24.7°C to 35.2°C

WORKPLACE AIR QUALITY MONITORING

Location Code

Sample Location Ware House Canteen Area

Collected By **ULTRA TECH**

1.0 Meter

Height of Sampler Sampling Duration

08 Hours

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Hydrocarbon as Non-Methane(NMHC)	IS 5182 (Part 17) : 1979	BDL[DL=0.5]	ppm
2.	Polyaromatic Hydrocarbon (PAH)	IS 5182 (Part 12) : 2004	BDL[DL=0.5]	mg/m³
3.	Particular Matter (PM ₁₀)	EPA/625/r—96/010 Method IO-2.1	0.12	mg/m³
4.	Carbon Monoxide (CO)	IS 5182 (Part 10) : 1999	1.2	mg/m³

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

	Instrument Used	Make & Model	Calibration Status
Sampling Equipment	Respirable Dust Sampler	Make - POLLTECH; Model -PEM RDS 9; Sr. No. 315	Valid up to - 03/10/2022
Details	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.
- 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.Parameter is Tested are not covered under NABL Scope
- 6. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6596/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

AIGHI PIN-400 601 \$

For ULTRA TECH,

(Authorized Signatory)



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants



ISO 9001: 2015 ISO 45001: 2018

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.

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. **ISSUE DATE**

UT/ELS/REPORT/6598/11-2021

Ware House Packing Area

YOUR REF.

12/11/2021 1300022569

REF. DATE

Location Code

Sample Location

27/04/2021

SAMPLE PARTICULARS

Sampling Plan Ref. No.:

02-11/2021

08/11/2021

02/11/2021

Time of Sampling

Date of Sampling

Sample Lab Code

Sample Registration Date

10:00 Hrs. to 18:00 Hrs.

Analysis Starting Date Analysis Completion Date

08/11/2021

12/11/2021

UT/ELS/014/11-2021

Collected By

ULTRA TECH

1.0 Meter

Height of Sampler **Sampling Duration**

WORKPLACE AIR QUALITY MONITORING

08 Hours

Ambient Air Temperature 25:5°C to 34.7°C

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	0.01	mg/m³
2.	Oxides of Nitrogen (NO _x)	IS 5182 (Part 06) : 2006	0.02	mg/m³

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

	Instrument Used	Make & Model	Calibration Status
Sampling Equipment	Respirable Dust Sampler	Make – POLLTECH; Model –PEM-RDS 8NL; Sr. No. 3513	Valid up to - 19/09/2022
Details	Fine Dust Sampler	Make – POLLTECH; Model –PEM-ADS 2.5/10μ; Sr. No. 18913	Valid up to - 20/09/2022

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/6599/11-2021 Dated 12/11/2021 for final conclusion.

– END OF REPORT –

THANE (W) INDIA PIN-400 601

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Page 1 of 1

For ULTRA TECH,



Lab.Gazetted by MoEF&CC-Govt, of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants

ISO 9001 : 2015 ISO 45001 : 2018

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.

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

Unit: "Patalaganga"

Date of Sampling

Sample Lab Code

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

Dist.: Raigad-410207, Maharashtra, India

REPORT NO.

UT/ELS/REPORT/6599/11-2021

Ware House Packing Area

ISSUE DATE YOUR REF.

12/11/2021

1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS

Analysis Completion Date

Sampling Plan Ref. No.:

Sample Registration Date

02-11/2021

08/11/2021

02/11/2021

Time of Sampling Analysis Starting Date 10:00 Hrs. to 18:00 Hrs. 08/11/2021

12/11/2021

UT/ELS/014/11-2021

Location Code

Sample Location

Collected By Height of Sampler

Sampling Duration

WORKPLACE AIR QUALITY MONITORING

ULTRA TECH 1.0 Meter

08 Hours

Ambient Air Temperature 25.5°C to 34.7°C

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Hydrocarbon as Non-Methane(NMHC)	IS 5182 (Part 17) : 1979	BDL[DL=0.5]	ppm
2.	Polyaromatic Hydrocarbon (PAH)	IS 5182 (Part 12) : 2004	BDL[DL=0.5]	mg/m³
3.	Particular Matter (PM ₁₀)	EPA/625/r—96/010 Method IO-2.1	0.15	mg/m³
4.	Carbon Monoxide (CO)	IS 5182 (Part 10) : 1999	1.2	mg/m³

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

	Instrument Used	Make & Model	Calibration Status
Sampling Equipment	Respirable Dust Sampler	Make POLLTECH; Model PEM-RDS 8NL; Sr. No. 3513	Valid up to - 19/09/2022
Details	Fine Dust Sampler	Make – POLLTECH; Model –PEM-ADS 2.5/10μ; Sr. No. 18913	Valid up to - 20/09/2022

Note:

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- 2. Monitoring area coming under Industrial areas and observed values are relevant to sample collected only.
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- 4. Any correction invalidates this test report.
- 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/6598/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

For ULTRA TECH.

INDIA PIN-400 601

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Lab.Gazetted by MoEF&CC-Govt. of India Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 QCI-NABET Accredited EIA Consulting Organization STP/ETP/WTP Project Management Consultants



ISO 9001: 2015 ISO 45001: 2018

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.

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/6600/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

Location Code

Sample Location

WORKPLACE AIR QUALITY MONITORING

27/04/2021

: 03

SAMPLE PARTICULARS

Sampling Plan Ref. No.:

Sample Registration Date

Date of Sampling

Time of Sampling

08/11/2021 02/11/2021

02-11/2021

08/11/2021

Analysis Starting Date Analysis Completion Date

Sample Lab Code

Ambient Air Temperature

UT/ELS/017/11-2021 23.2°C to 35.9°C

10:45 Hrs. to 18:45 Hrs.

12/11/2021

Height of Sampler Sampling Duration

Collected By

ULTRA TECH

Reactor Area

1.0 Meter 08 Hours

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	0.01	mg/m³
2.	Oxides of Nitrogen (NOx)	IS 5182 (Part 06) : 2006	0.02	mg/m³

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

	Instrument Used	Make & Model	Calibration Status
Sampling Equipment	Respirable Dust Sampler	Make – POLLTECH; Model –PEM-RDS 8NL-BM; Sr. No. 714	Valid up to - 06/01/2022
Details	Fine Dust Sampler	Make – POLLTECH; Model –PEM-ADS 2.5/10μ; Sr. No. 22114	Valid up to - 23/02/2022

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/6601/11-2021 Dated 12/11/2021 for final conclusion.

– END OF REPORT –

For ULTRA TECH,

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Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

ISO 9001: 2015

STP/ETP/WTP Project Management Consultants ISO 45001: 2018 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/6601/11-2021

ISSUE DATE

12/11/2021

YOUR REF. REF. DATE

1300022569 27/04/2021

SAMPLE PARTICULARS

Sampling Plan Ref. No.:

02-11/2021

Sample Registration Date

08/11/2021

02/11/2021 10:45 Hrs. to 18:45 Hrs.

Time of Sampling **Analysis Starting Date**

Ambient Air Temperature

Date of Sampling

08/11/2021

\nalysis Completion Date Sample Lab Code

12/11/2021

UT/ELS/017/11-2021 23.2°C to 35.9°C

WORKPLACE AIR QUALITY MONITORING

Location Code

Sample Location

Reactor Area

Collected By Height of Sampler

1.0 Meter

ULTRA TECH

Sampling Duration

08 Hours

Sr. No.	Test Parameter -	Test Method	Test Result	Unit
1.	Hydrocarbon as Non-Methane(NMHC)	IS 5182 (Part 17) : 1979	BDL[DL=0.5]	ppm
2,	Polyaromatic Hydrocarbon (PAH)	IS 5182 (Part 12) : 2004	BDL[DL=0.5]	mg/m³
3.	Particular Matter (PM10)	EPA/625/r—96/010 Method IO-2.1	0.11	mg/m³
4,	Carbon Monoxide (CO)	IS 5182 (Part 10) : 1999	1.4	mg/m³
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.

	Instrument Used	Make & Model	Calibration Status
Sampling Equipment Details	Respirable Dust Sampler	Make – POLLTECH; Model –PEM-RDS 8NL-BM; Sr. No. 714	Valid up to – 06/01/2022
	Fine Dust Sampler	Make – POLLTECH; Model –PEM-ADS 2.5/10μ; Sr. No. 22114	Valid up to - 23/02/2022

- 1. This test report refers only to the sample tested.
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- 4. Any correction invalidates this test report.
- 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/6600/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

INDIA PIN-400 601

For ULTRA TECH.

(Authorized Signatory)



Lab.Gazetted by MoEF&CC-Govt. of India Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization STP/ETP/WTP Project Management Consultants



ISO 9001: 2015 ISO 45001: 2018

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/6602/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS Sampling Plan Ref. No.:

02-11/2021

Sample Registration Date

08/11/2021

Location Code Sample Location

WORKPLACE AIR QUALITY MONITORING

DM Plant Room

Date of Sampling Time of Sampling 02/11/2021

10:35 Hrs. to 18:35 Hrs.

08/11/2021

Collected By

ULTRA TECH

Analysis Starting Date Analysis Completion Date

12/11/2021

Height of Sampler

1.0 Meter

Sample Lab Code

UT/ELS/016/11-2021

Sampling Duration

08 Hours

Ambient Air Temperature : 23.2°C to 34.7°C

Unit	Test Result	Test Method	Test Parameter	Sr. No.
mg/m³	0.02	IS 5182 (Part 02) : 2001	Sulphur Dioxide (SO ₂)	1.
mg/m³	0.03	IS 5182 (Part 06) : 2006	Oxides of Nitrogen (NOx)	2.
	0.03	IS 5182 (Part 06) : 2006	Oxides of Nitrogen (NO _x)	2.

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

Α	Instrument Used	Make & Model	Calibration Status
Sampling Equipment Details	Respirable Dust Sampler	Make – POLLTECH; Model –PEM RDS 9; Sr. No. 515	Valid up to - 03/10/2022
	Fine Dust Sampler	Make – POLLTECH; Model –PEM-ADS 2.5/10μ; Sr. No. 1318	Valid up to - 04/01/2022

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/6603/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT --

For ULTRA TECH,

THANE (W) INDIA PIN-400 601

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Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants

ISO 9001: 2015 ISO 45001: 2018

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/6603/11-2021

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

27/04/2021

SAMPLE PARTICULARS

02-11/2021 **Location Code**

Sampling Plan Ref. No.: **Sample Registration Date**

08/11/2021

Sample Location

WORKPLACE AIR QUALITY MONITORING

DM Plant Room

Date of Sampling

02/11/2021

Time of Sampling **Analysis Starting Date**

08/11/2021

12/11/2021

Collected By

ULTRA TECH

Analysis Completion Date

UT/ELS/016/11-2021

10:35 Hrs. to 18:35 Hrs.

Height of Sampler Sampling Duration 1.0 Meter 08 Hours

Sample Lab Code **Ambient Air Temperature**

23.2°C to 34.7°C

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Hydrocarbon as Non-Methane(NMHC)	IS 5182 (Part 17) : 1979	BDL[DL=0.5]	ppm
2.	Polyaromatic Hydrocarbon (PAH)	IS 5182 (Part 12) : 2004	BDL[DL=0.5]	mg/m³
· 3.	Particular Matter (PM10)	EPA/625/r—96/010 Method IO-2.1	0.16	mg/m³
4,	Carbon Monoxide (CO)	IS 5182 (Part 10) : 1999	1.8	mg/m³
	Carbon Monoxide (CO) Detection Limit	IS 5182 (Part 10): 1999 DL: Detection Limit	1,8	

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

, ,	Instrument Used	Make & Model	Calibration Status
Sampling Equipment	Respirable Dust Sampler	Make – POLLTECH; Model –PEM RDS 9; Sr. No. 515	Valid up to - 03/10/2022
Details	Fine Dust Sampler	Make – POLLTECH; Model –PEM-ADS 2.5/10μ; Sr. No. 1318	Valid up to - 04/01/2022

Note:

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- 4. Any correction invalidates this test report
- 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/6602/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

INDIA PIN-400 601

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Lab. Accredited by NABL - ISO/IEC 17025:2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

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ISO 9001: 2015 ISO 45001: 2018

UT/ELS/REPORT/6604/11-2021

Ware House Loading Area

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.

ISSUE DATE

12/11/2021 YOUR REF.

REF. DATE

Location Code

Sample Location

1300022569 27/04/2021

: 05

INDIA IN-400 601

WORKPLACE AIR QUALITY MONITORING

SAMPLE PARTICULARS

Date of Sampling

Time of Sampling

Sample Lab Code

Sample Registration Date

Sampling Plan Ref. No.:

02-11/2021

08/11/2021

02/11/2021

11:00 Hrs. to 19:00 Hrs.

Analysis Starting Date Analysis Completion Date

08/11/2021

12/11/2021

UT/ELS/018/11-2021

Collected By

Height of Sampler **Sampling Duration** **ULTRA TECH** 1.0 Meter

08 Hours

Ambient Air Temperature 24.9°C to 35.1°C

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Sulphur Dioxide (SO ₂)	IS 5182 (Part 02) : 2001	0.01	mg/m³
2.	Oxides of Nitrogen (NOx)	IS 5182 (Part 06) : 2006	0.03	mg/m³

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

	Instrument Used	Make & Model	Calibration Status
Sampling Equipment	Respirable Dust Sampler	Make – POLLTECH; Model – PEM-RDS 8NL; Sr. No. 3213	Valid up to 05/01/2022
Details	Fine Dust Sampler	Make – POLLTECH; Model –PEM-ADS 2.5/10μ; Sr. No. 18213	Valid up to – 04/01/2022

Note:

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- 5. This test report shall be referred along with Test Report No. UT/ELS/REPORT/6605/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

For ULTRA TECH,

(Authorized Signatory)



Lab.Gazetted by MoEF&CC-Govt. of India

Lab. Accredited by NABL - ISO/IEC 17025;2017 [TC-5600, Valid until 27.05.2022 in the field of Testing]

QCI-NABET Accredited EIA Consulting Organization

STP/ETP/WTP Project Management Consultants

ISO 9001: 2015 ISO 45001: 2018

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.

TEST REPORT

ISSUED TO: M/s. BIRLA CARBON INDIA PRIVATE LIMITED.

Unit: "Patalaganga"

Date of Sampling

Sample Lab Code

Village: Lohop, Talvali, Patalganga, Tal.: Khalapur,

Dist.: Raigad-410207, Maharashtra, India

REPORT NO.

UT/ELS/REPORT/6605/11-2021

Ware House Loading Area

ISSUE DATE YOUR REF.

12/11/2021 1300022569

REF. DATE

05

27/04/2021

SAMPLE PARTICULARS

Sample Registration Date

Sampling Plan Ref. No.:

02-11/2021

08/11/2021

02/11/2021

11:00 Hrs. to 19:00 Hrs.

Time of Sampling Analysis Starting Date Analysis Completion Date

08/11/2021

12/11/2021

UT/ELS/018/11-2021

Collected By

Location Code

Sample Location

WORKPLACE AIR QUALITY MONITORING

ULTRA TECH 1.0 Meter

Height of Sampler Sampling Duration

08 Hours

Ambient Air Temperature

24.9°C to 35.1°C

Sr. No.	Test Parameter	Test Method	Test Result	Unit
1.	Hydrocarbon as Non-Methane(NMHC)	IS 5182 (Part 17) : 1979	BDL[DL=0.5]	ppm
2.	Polyaromatic Hydrocarbon (PAH)	IS 5182 (Part 12) : 2004	BDL[DL=0.5]	mg/m³
3.	Particular Matter (PM10)	EPA/625/r—96/010 a Method IO-2.1	0.14	mg/m³
4.	Carbon Monoxide (CO)	IS 5182 (Part 10) : 1999	1.3	mg/m³
DL: 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.

	Instrument Used	Make & Model	Calibration Status
Sampling Equipment	Respirable Dust Sampler	Make – POLLTECH; Model –PEM-RDS 8NL; Sr. No. 3213	Valid up to - 05/01/2022
Details	Fine Dust Sampler	Make - POLLTECH; Model -PEM-ADS 2.5/10μ; Sr. No. 18213	Valid up to - 04/01/2022

- 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.
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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/6604/11-2021 Dated 12/11/2021 for final conclusion.

END OF REPORT -

INDIA PIN-400 601

ONSULTA

For ULTRA TECH.

Authorized Signatory)

कुर्मीवत्त्र | गनिवा, हि. ३० मच २०१३

हाराटेक कार्बन पाताळगंगा या कारवान्याय भारत सरकारचा व्यक्तिण खात्याने पत्र क्रमांक F NO J-11011/35/2007-1AH (1)

तारीख २२ मार्च २०१३ ला पर्यावरणाचा परवाना (Environmental Clearance) दिला आहे. माहितीसाठी हायदेक कार्बन तर्फे.

सुकाळ शनिवार, ३० सार्चे २०१३ निवेदन
तथरेक काबन, पाताक्रमा या कारवान्यात भारत सरकारच्या पर्याक्रण खात्याने पत्र क्रमांक F No. J-11011/35/2007-LA II (1) तारीख २२ पार्च २०१३ त्य प्यांकरणान्य परवाना (Environmental Clearance) हिला आहे.

3

PUBLIC NOTICE

STATE OF STATES FOR

स्काल

PUBLIC HOTICE

ENVIRONMENTAL MANAGEMENT PLAN AND DISASTER MANAGEMENT PLAN

A. ENVIRONMENTAL MANAGEMENT PLAN:

Every plant after a commissioning phase requires a Health, Safety and Environmental Control mission to be set up with proper implementation. An organization chart covering responsibilities of various officials is formulated, reviewed periodically and updated. Being existing plant site, Environmental management planning has been already done. The details of the same are as follows;

ORGANISATION CHART:

- i) Location Head
- ii) Group Leader (Operations)
- iii) Group Leader (Engineering Services)
- iv) Group Leader (Environment)
- v) Group Leader (Quality Assurance)
- vi) Group Leader (Management Services)
- vii) Emergency Control Room

Environmental management plan includes following:

- 1) Operation of plants/ Process water supply.
 Facilities Waste water control system
 - Air pollution control system.
 - Solid waste management system.
- 2) Laboratory Facilities including routine monitoring.
- 3) Equipment and Periodic and systematic Instrumentation control testing and control.
 - Repairing.
- 4) Data Handling Data collection.
 - Reporting and storage of data
 - Maintaining track of discussions.
- 5) Disaster Planning Disaster management team
 - Rescue and rehabilitation.
- 6) Manpower for Environmental management.

B. <u>DISASTER MANAGEMENT PLANNING:</u>

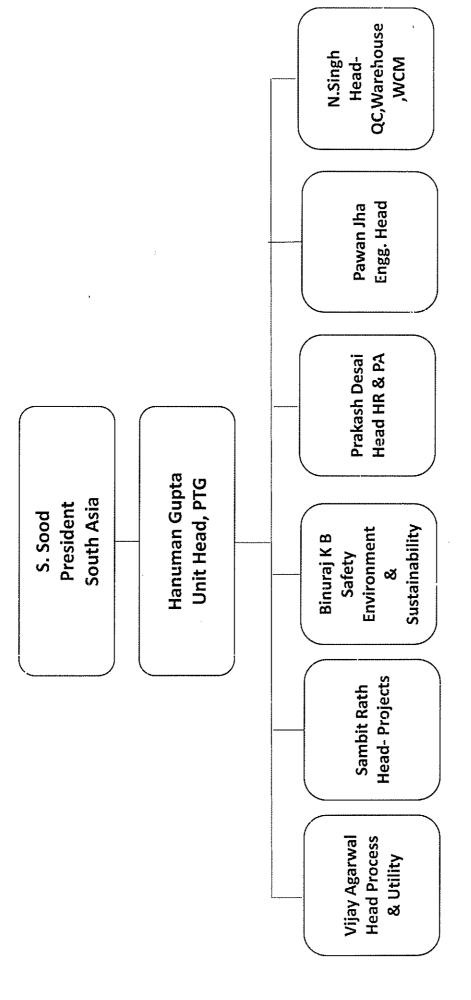
Disaster Management planning includes anticipatory action for disaster, stream living of preparedness, assembly and coordination of disaster management team and quick mobilization of all the forces to face the situation.

Salient features of planning are;

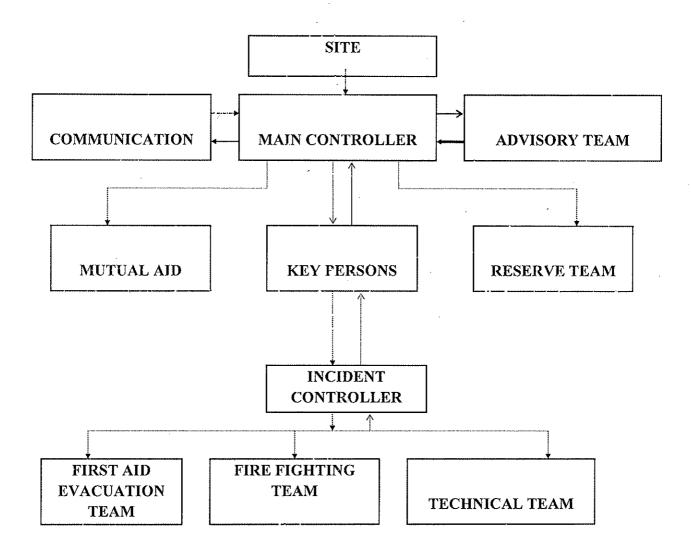
- 1. Preparation of an Organizational Chart identifying personnel to coordinate and take charge of various functions.
- 2. To train concerned personnel in safety measures required in event of disaster.
- 3. To identify communication link that can be established with local and state authorities to meet the challenges of disaster and to ensure reliability of communication system.
- 4. Identify nearby industries to muster help in case of emergency.
- 5. To ensure adequacy and efficiency of fire fighting system.
- 6. To ensure that necessary applications like boots, gas masks, protective wears, gloves, goggles, ear muffs, anti-vibration pads etc. are readily accessible.
- 7. To ensure reliability of gas leak detection system.
- 8. To prepare clear map of plant area indicating position of gates, various units, approach roads, emergency exits, etc.
- 9. To maintain adequate inventory of first aid kits, antidotes, essential drugs.
- 10. To maintain a meteorological data of site especially giving wind direction in each season, in case, evacuation becomes necessary.
- 11. Immediate precaution like providing wet towels, gas masks or respirators shall be undertaken. Awareness has to be created to avoid papic on eventualities. The safety coordinator should do the needful to restore normalcy, whereas, medical coordinator shall attend to the casualties.
- 12. If required plant shall be shutdown and the entire area sealed off till trained personnel restore normalcy.
- 13. Environmental decontamination measures to be undertaken by physical, chemical or biological approaches as required.
- 14. Rescue and Rehabilitation:
 - The rescue operation consists of removing operating personnel trapped in disaster /emergency area and shifting them to hospitals /nursing homes after first aid. A large number of ambulances may be required and should be summoned from various sources, like nearby industries, hospitals, voluntary organizations, etc. All the casualties should be identified and relatives should be informed, if possible.
- 15. The rescue operation will be initiated immediately after the disaster has occurred though relief may take some more time (few hours to couple of days). Depending upon severity of disaster, external help may be sought (to provide evacuation, medical help etc.) till normalcy is restored.
- 16. Rehabilitation will include taking adequate care of casualties, providing necessary help for the victim. It will also include rebuilding damaged plant, machinery and building, estimation of damage, compensation payment etc.

The following chart reveals the co-ordination of Emergency organization during emergency situations.

ORGANIZATIONAL STRUCTURE



EMERGENCY CONTROL ORGANISATION



The duties performed by the personnel of emergency organization team are as follows:

First Observer:

He is a person who observes the emergency at the first sight. He will try to handle the emergency with the immediately available facilities to him. If he feels that it is beyond his control, he will press hooter button nearby and inform immediately to his shift incharge. If shift in-charge is not available in the vicinity, he can directly phone to security. He will give the information like type of emergency, location and his name. After that he will contact to his staff in-charge and will give all details. Then he will act as per the instructions of the shift in-charge (Refer Emergency Organization).

Incident Controller.

The shift engineer of the plant/ officer of the dept. in which the emergency arose is considered as incident controller.

- 1. He will receive the information from first observer and reach to the spot of the emergency.
- 2. He will assess the emergency and instruct to subordinates to bring the running plant operations in shutdown mode.
- 3. He will direct fire fighters, first aiders and technical team.
- 4. He will seek help from the key person.
- 5. He will give continuous feed back to the main controller and receive his instructions.
- 6. Once the emergency is brought under control, he will inform to the main controller.

Main Controller:

- 1. On hearing siren and instructions on public address system, he will reach near the site and take over the charge of the situation.
- 2. He will communicate with the incident controller and will assess the situation.
- 3. He will instruct the incident controller, communication team.
- 4. He will take advice from the advisory team if required.
- 5. He will give feedback to the site controller during or after the emergency brought under control.
- 6. Once the emergency is brought under control, he will instruct communication team to declare all clear by sounding all clear siren.
- 7. Organize investigation after bringing emergency under control.
- 8. Incorporate corrective measures to avoid further accident/incident.

Advisory Team:

- 1. All advisory Team members should assemble at Emergency Control Centre.
- 2. They will provide essential information to the Main Controller on his demand.
- 3. If the Main Controller doesn't require any advice from the team, he can delegate any other jobs which may be more important at the time of emergency.

Communication Team:

- 1. On hearing siren they will take position in Security dept.
- 2. They will inform about their positions to the main controller.
- 3. They will receive instructions from the main controller and communicate internal personnel as well as outside agencies, authorities (fire brigade, ambulance, hospitals, and site controller) and government officials.
- 4. To restrict the vehicles from coming inside the factory except the vehicles of the emergency organization members. Also to remove the vehicles, if required from inside.
- 5. Keep the entrance road clear for emergency vehicles.
- 6. On the instructions from the main controller open the emergency exits.
- 7. To arrange for the ambulance car or vehicles.
- 8. As per the instructions of the main controller, they will inform about status of emergency to all people present in the premises.
- 9. They will sound all clear sirens once they get signal from the main controller.

Emergency Handling Team (Fire Fighting Team):

- 1. After hearing the information's about the emergency on Emergency Alarm System, they will reach at the spot of emergency. Before this, they will give charge of their jobs to the responsible person as per the instructions.
- 2. After reaching on the spot, they will act as per the instructions of the incident controller.
- 3. After handling the emergency they will be engaged in salvage operation if required, otherwise in normal case they will go back to the plant and will resume the work.

First Aid Team:

- 1. After receiving the information, the doctor and nurse will remain in occupational health centre only.
- 2. First aider will go to the site. They will remove the casualties from the place and will give them first aid treatment with help of a doctor/ nurse.

Evacuation Team:

- 1. Identify the wind direction.
- 2. Evacuate people from emergency location.
- 3. Guide them toward the assembly points.
- 4. Carry out head count operations.
- 5. Give feed to main controller.
- 6. In case of off-site implications, they will carry megaphone and evacuate neighbouring villages with help of police.

Technical Team:

- 1. Mechanical Engineer/ Utility operator to ensure that all water tanks are full and hydrant system is ready to use.
- 2. Electrical engineer/ Electricians: If required they will cut off electric supply of that area on the instructions of incident/ main controller and provide portable lights/ extension lights.
- 3. Instrumentation Engineer/ Technicians: To act as per the instructions given by incident / main controller.

C. ORGANISATIONAL SET-UP FOR POLLUTION CONTROL:

Pollution control systems will be looked after by a team of professional people headed by Manager. In general he will co-ordinate the operation and maintenance staff for control system.

Operation and maintenance of effluent treatment plant / water treatment plant:

ETP shall be operated & maintained by a team which consists of;

a. Plant In-Charge: 1
b. Shift In-Charge : 1
c. Supervisors : 1
d. Operators : 1
e. Helpers : 1

D. GENERAL SAFETY PRECAUTIONS & INDUSTRIAL HYGIENE :

- 1. Ventilation is provided by plenty of openings.
- 2. Adequate platforms are provided for manual operations. Free space for movements and carrying the material is provided.
- 3. Adequate number of fire extinguishers is provided.
- 4. All workers are provided with hand-gloves, goggles, footwear's, aprons, masks, hard hats etc. for protection.
- 5. There is no manual handling of liquids like Acids, Caustic Soda Lye etc. These liquids are always flow through pipe lines.
- 6. All steam pipe lines and steam heated vessels are provided with adequate insulation. All high pressure steam lines are IBR approved.
- 7. Safety relief valves are provided wherever necessary.
- 8. Routine medical attention is given to workers.
- 9. Company has provided a full fledged fire hydrant system for fire fighting. The system is constructed as per the TAC norms and necessary approval from TAC authority has been obtained.
- 10. Petrochemical products are being stored in petroleum tank farm licensed by Explosive

Department.

- 11. Portable fire extinguishers are provided throughout the plant as per the norms.
- 12. Process plant is controlled through Distributed Control System DCS operated instrument network to minimize the exposure of raw material to operating persons.
- 13. Plant layout and detailing is done by renowned professionals, viz. M/s. Davy Power Gas Consultants and process plants are provided with most modern Distributed Control System (DCS) with inbuilt safety features such as alarms, trips, pressure release system, etc.
- 14. Company will provide a full fledged fire hydrant system, designed as per statutory requirements.

The system is designed to adequately protect the buildings, equipment, storage facilities, utility plants & other installations by providing hydrants and water monitors around the areas.

The system mains are comprised of pressurized underground ring main of carbon steel pipes suitably waited & wrapped with hydrant points as required as per statutory norms. The installation is provided with sluice valves & suitable sizes at suitable points to facilitate isolation of ring mains, if required, during fire & maintenance.

Water Storage:

Water storage Tank of 10000 m³ capacity is provided.

Pumps & Pump House:

A separate pump house is constructed. The pumping system consists of the following pumps.

DESCRIPTION	CAPACITY	NORMAL DISCHARGE PRESSURE
Electrical Driven Pump	171.m³/hr.	88 Meters head
2 no. (Working)		
Diesel Driven Pump	171 m³/hr.	88 Meters head
1 no. (Standby)		
Jockey Pump 2 no.	10.8 m³/hr.	88 Meters head

The pumps are provided with automatic starting devices as per statutory norms. In addition manual starting device is provided for all the pumps.

Hydrants:

Sr. No.	DESCRIPTION	QUANTITY
1.	S.S. Hydrant valve as per IS 5290	59 Nos.
2.	S.S. Fire Escape Hydrant valve as per IS 5290	8 Nos.
3.	ABC Type extinguisher - 5 Kg	44 Nos.
4.	CO2 extinguishers ~ 4.5 Kg	57 Nos.

PART II

DETAILS OF THE EXPENDITURE FOR THE ENVIRONMENTAL MANAGMENET PLAN

Sr. No	Descriptions	Cost (Crores)
1	Air pollution Control Equipment	23.25
	(Heat recovery boilers)	
2	ETP/STP	4.05
3	Green Belt	1.89
4	O & M and Monitoring	0.9581
	Total	30.148

उप वनसंरक्षक, अलिबाग वागिभाग अलिबाग यांचे कार्यालय. मु.पो. ता. अलिबाग जिल्हा- रायगड दूरध्वनी क्र. ०२१४१ २२२०१६

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विषय :- दाखला मिळणे बाबत. आदीत्य बिर्ला न्युव्हो लिमीटेड यांचा अर्ज.

जावक क्रमांक ब/२०/जमीन/३७(४/२०१२-२०१३) अलिबाग, दिनांक : १५४ ११ १०११

प्रति.

आदीत्य बिर्ला न्युव्हो लिमीटेड, युनिट, हाय-टेक कार्बन, पातळगंगा, लोहोप, ता. खालापूर जि. रायगड.

सदर्भ :- १) आपलेकडील दि. ०९/०५/२० २ रोजीचा विषयाधिन अर्ज.

- २) वन परिक्षेत्र खालापूर यांचकडील पत्र क्र. अ/२०/जमीन/६२५, दि. १२/१२/२०१२.
- 3) उप विभागीय वन अधिकारी, पनवेल यांचेकडील पत्र क्र व/२०/जमीन/५६९ दि. १३/१२/२०१२.

वनक्षेत्रपाल खालापूर व उप विभागीय वन अधिकारी, पनवेल यांनी वरील संदर्भिय पत्रान्वये सादर केलेल्या अहवालानुसार आपणार कळिवण्यांत येत आहे की, आपले दिनांक ०९/०५/२०१२ रोजीचे विनंती अर्जात नमुद केल गप्रमाणे सद्या उभ्या असलेल्या युनिटमुळे (कंपनीचा प्लॅंट) लगतचे राखीव वनावर सद्यस्थितीत बाह्य स्वरुपी परिणाम झाल्याचे दिसून येत नाही.

उप वनसंरक्षक,

अलिबाग.

प्रतिलिपी :- उप विभागीय वन अधिकारी, ानवेल व वनक्षेत्रपाल खालापूर यांना माहितीसाठी रवाना.



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Onkar A. Kulkarni Manager - MBD

Sommath Malgar Director