



Date: 22<sup>nd</sup> June 2023

To,  
HONORABLE NATIONAL GREEN TRIBUNAL,  
PRINCIPAL BENCH, NEW DELHI.

**Reference:** Original Application No. 336/2023 Date of hearing: 18.05.2023

Respected Sir,

In response to the NGT order mentioned above following facts are being submitted for your reference.

- A. The officials of Central Pollution Control Board and State Pollution Control Board, in their joint visit, on 9<sup>th</sup> February 2021, observed some water near boundary wall, inside the plant. The water reached there due to road & floor cleaning activity inside the plant. However, we recollected the accumulated water and recycled it for the use in production process.
- B. The UP State Pollution Control Board had issued a show-cause notice dated 24<sup>th</sup> March 2021 (**Annexure A**) and sought explanation about the violations of environmental norms on 9<sup>th</sup> February 2021.
- C. Birla Carbon is a global organisation and acts responsibly towards environment & society. We never discharge any effluent outside the plant premises. Rather, we recycle it for the use in our production process. However, we took the observation seriously and immediately improved our Zero liquid discharge plant within four days after the joint visit of the officials. We constructed dike wall and pit near ZLD plant to arrest any possible leakage in future. We completed the job on 12<sup>th</sup> February 2021. Kindly refer attached images of the ZLD plant in Annexure F. Birla Carbon replied the show-cause notice through the letter dated 14<sup>th</sup> April 2021 with supporting evidences. (**Annexure B**).
- D. Officials of UP Pollution Control Board, also, visited our plant on 23<sup>rd</sup> August 2022. After the visit, the company received letter dated 29<sup>th</sup> November 2022 from UP Pollution Control Board (**Annexure C**) vide which the company was asked to pay environmental compensation of Rs. 1,20,000/-. The Company paid the same on 6<sup>th</sup> December 2022 and informed to the UPPCB through letter dated 10<sup>th</sup> December 2022 (**Annexure D**).

Birla Carbon India Private Limited  
(Formerly known as SKI Carbon Black (India) Private Limited)  
Unit : Renukoot

Murdhwa Indl. Area, P.O. Renukoot, Dist. Sonbhadra - 231 217, U.P., India

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- E. Hence, the statement, mentioned in the application bearing no. 336/2023, given to Hon. NGT, that the company has not complied the show-cause notice issues by UPPCB, **is false & baseless**. The matter has been closed from both the sides i.e. UPPCB and the company.
- F. To substantiate the fact that there was no discharge of untreated water, we are attaching herewith copy of the report prepared by NGT oversight committee after their visit on 31<sup>st</sup> July 2021. **(Annexure E)**

**Following are our responses to the issues raised by Mr. Pankaj Srivastava vide his application:**

- G. Against the claim made by the applicant Mr. Pankaj Srivastava in his application (paragraph 4), we assure the Hon. NGT that untreated water was not overflowed from ETP and moved towards nallah on 13<sup>th</sup> July 2021. In support of our claim, Images showing the condition of the land between ZLD system and plant boundary wall on different dates of July 2021 (i.e. 5<sup>th</sup> July'21, 15<sup>th</sup> July'21 & 21<sup>st</sup> July'21) are attached herewith **Annexure G**. These images are taken from the video recordings from the camera placed on boundary wall near ZLD area. Kindly note that the video clippings from the same camera are available for the different dates of July'21 i.e. 5<sup>th</sup>, 9<sup>th</sup>, 15<sup>th</sup>, 20<sup>th</sup> & 31<sup>st</sup> July 2021. These video clippings have already been shared with NGT oversight committee during their visit 31<sup>st</sup> July'21. This is evident from the report of the oversight committee, which is attached herewith **(Annexure H)** that there was no untreated water overflowed on 13<sup>th</sup> July 2021 and moved towards boundary wall.
- H. In paragraph 5, the applicant falsely claimed that the ZLD plant's pond overflowed on 25<sup>th</sup> June 2021. The applicant submitted image of effluent pit and not the ZLD pond as mentioned in the application. This effluent pit is inside ZLD area. Our ZLD area is surrounded by dyke wall, which restricts effluent water to flow outside ZLD area. Overflow of effluent pit goes into collection pit, which is evident from the image given in **Annexure I & J**.
- I. In paragraph 6, the applicant falsely claimed that settling pond overflowed on 25<sup>th</sup> June 2021. Again, we reiterate that this is a false allegation. We are sharing the geo tagged images with similar coordinates **(Annexure K)** to show that we have 2<sup>nd</sup> collection pit at this point where water is recollected and reprocessed.
- J. It is to be noted that between 20<sup>th</sup> June 2021 to 26<sup>th</sup> June 2021, there were medium to heavy rains in the Renukoot area **(Annexure L)** and applicant has taken photos of wet surface as mentioned in paragraph 6 of the application.



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- K. In paragraph 7, the said carbon pond near laboratory was not existed during the year 2021. There was a fountain pond existed in the year 2021. There was an outlet of the fountain pond which was connected with STP. In order to further strengthen the ZLD system, this fountain pond was converted into emergency effluent tank in April 2022 and it was connected to ZLD. Necessary arrangements were made for circular movement of the effluent from ZLD to emergency effluent tank and back. The outlet of the erstwhile fountain pond removed at the time of converting fountain pond into emergency effluent tank. The image provided by the applicant was of outlet of fountain pond which was connected to STP. It is a case of misrepresentation of facts. Please refer geo tagged image given in **Annexure M** with no such outlet as claimed by the applicant.
- L. In paragraph 8, the applicant has again made the same false claim about ZLD area and the boundary wall near the ZLD area. As mentioned in point G of this reply, we have provided enough evidence of boundary wall (**Annexure G**) and report of the NGT oversight committee (**Annexure H**) and the video clippings of different dates of July 2021 (i.e. 5<sup>th</sup> July'21, 15<sup>th</sup> July'21 & 21<sup>st</sup> July'21) which were already submitted to NGT oversight committee during their visit on 31<sup>st</sup> July 2021. If required, we can again submit those video clippings to the authority as evidence supporting our claim. Current image of the boundary wall is given in **Annexure N** which is witnessed by the NGT oversight committee.
- M. Birla Carbon is a responsible global organization, which pays utmost attention to the environment. We recognize our responsibility to safeguard the environment. This means taking a long term view and continually adapting and investing in our environmental stewardship to use resources more effectively and minimizing our adverse impact. Our aim is to become net zero (carbon neutral) by 2050. We also publish global sustainability report every year. The environmental part of the sustainability report 2022 is attached herewith for your reference. (**Annexure O**)
- N. It is to be noted that the applicant was an employee of the company and has made application to the Honorable NGT with mala fide intentions. To substantiate this point, a brief description of his association with the company, is attached herewith. (**Annexure P**)

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We reassure you our commitment towards environment and society.

It is our humble request to consider above facts while deciding in the case.

Yours faithfully

For, Birla Carbon India Pvt. Ltd,  
Unit-Renukoot

Varun Sabarwal  
Unit Head

Encl.: As mentioned above

Cc:

1. Mr. R. D. Patil, Scientist, Central Pollution Control Board, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh, Pin: 226010.
2. Regional Officer, Uttar Pradesh Pollution Control Board, H. No. 162, Uttar Mahal, Roberstgunj, Dist. Sonebhadra, UP, Pin: 231216.

**Birla Carbon India Private Limited**

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# उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड 14

## UTTAR PRADESH POLLUTION CONTROL BOARD

संदर्भ सं/461072 / सी-2/अल-69/का.नं.नोटिस/सोनभद्र/21 दिनांक  
Ref. No. .... Date 24-3-21

सेवा में,

पंजीकृत

मैसर्स बिरला कार्बन इण्डिया प्रा०लि०,  
(पूर्व नाम-मे० एस०के०आई० कार्बन ब्लैक (इण्डिया) प्रा०लि०),  
यूनिट-रेनुकूट, मुर्घवा, रेनुकूट,  
जनपद-सोनभद्र ।

यह कि उद्योग मैसर्स बिरला कार्बन इण्डिया प्रा०लि० (पूर्व नाम-मे० एस०के०आई० कार्बन ब्लैक (इण्डिया) प्रा०लि०), यूनिट-रेनुकूट, मुर्घवा, रेनुकूट, सोनभद्र जिसे आगे उद्योग कहा जायेगा, जल (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1974 की धारा-47 के अन्तर्गत एक कम्पनी है।

यह कि आपके उद्योग मैसर्स बिरला कार्बन इण्डिया प्रा०लि० (पूर्व नाम-मे० एस०के०आई० कार्बन ब्लैक (इण्डिया) प्रा०लि०), यूनिट-रेनुकूट, मुर्घवा, रेनुकूट, सोनभद्र का निरीक्षण केन्द्रीय प्रदूषण नियंत्रण बोर्ड, राज्य बोर्ड तथा जिला प्रशासन, सोनभद्र के सदस्यों द्वारा दिनांक 09.02.2021 को किया गया। आख्यानसार निरीक्षण के समय उद्योग परिसर की बाउण्ड्री के समीप जिओ को-आर्डिनेट्स अक्षांस-24.228411 एवं देशान्तर-83.036386 बिन्दु पर औद्योगिक उत्प्रवाह का निस्तारण बिना शोधन किये हुए किये जाने का साक्ष्य दृष्टिगोचर हुआ है। निरीक्षण के समय उद्योग में स्थापित उत्प्रवाह शुद्धीकरण संयंत्र व्यवस्था के समीप पाये गये साक्ष्यों के भौतिक सत्यापन से प्रतीत हो रहा है कि उद्योग की प्रक्रिया से उत्पन्न कार्बन युक्त उत्प्रवाह, ई०टी०पी० से ओवर फ्लो होकर अक्षांस-24.228411 एवं देशान्तर-83.036386 बिन्दु पर बिना शुद्धीकृत हुए स्थानीय नाले में निस्तारित किया जाता है, जो रेणु नदी में मिलता है, जिससे रेणु नदी एवं अन्ततोगत्वा सोन नदी के जल की गुणता प्रभावित होती है। निरीक्षण के समय स्थानीय नाले में काले रंग का उत्प्रवाह निस्तारित होता हुआ पाया गया।

उक्त नाले का निरीक्षण पूर्व में भी श्री पकौड़ी लाल कोल, मा० संसद सदस्य के साथ दिनांक-22.01.2021 को किया गया था तथा नाले में निस्तारित हो रहे उत्प्रवाह में कार्बन ब्लैक के कारण पानी का रंग काला पाया गया था। उद्योग की हाऊसकीपिंग उचित रूप से नहीं किये जाने तथा उद्योग की प्रक्रिया से उत्पन्न कार्बन युक्त उत्प्रवाह को बिना शुद्धीकृत किये हुए स्थानीय नाले में निस्तारित होने के कारण रेणु नदी एवं अन्ततोगत्वा सोन नदी के जल की गुणता प्रभावित हो रही है। इस प्रकार उद्योग द्वारा जल (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1974 यथासंशोधित के आज्ञापक प्राविधानों का स्पष्ट उल्लंघन किया जा रहा है।

क्षेत्रीय कार्यालय द्वारा प्रेषित आख्या एवं संस्तुति दिनांक 05.03.2021 के द्वारा आपके उद्योग के विरुद्ध दिनांक 22.01.2021 से अद्यतन निरीक्षण दिनांक 02.03.2021 तक अर्थात् 40 दिनों के उल्लंघन अवधि हेतु रू० 30,000/- प्रतिदिन की दर से पर्यावरणीय क्षतिपूर्ति अधिरोपित किये जाने एवं उद्योग के विरुद्ध जल (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1974 की धारा 33-ए के अन्तर्गत कार्यवाही किये जाने की संस्तुति की गयी है।

अतः जल (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1974 (यथासंशोधित) की धारा-33ए के अन्तर्गत राज्य बोर्ड को प्रदत्त शक्तियों के अधीन एवं उपरोक्त वर्णित तथ्यों के परिप्रेक्ष्य में उद्योग के विरुद्ध सक्षम अधिकारी के अनुमोदनोपरान्त निम्नानुसार कारण बताओ नोटिस जारी किया जाता है :-

1. यह कि क्यों न मैसर्स बिरला कार्बन इण्डिया प्रा०लि० (पूर्व नाम-मे० एस०के०आई० कार्बन ब्लैक (इण्डिया) प्रा०लि०), यूनिट-रेनुकूट, मुर्घवा, रेनुकूट, सोनभद्र की संचालन प्रक्रिया को तत्काल प्रभाव से बंद कर दिया जाए।
2. यह कि क्यों न सक्षम अधिकारियों को निर्देशित कर दिया जाए कि आपकी औद्योगिक इकाई को मिलने वाली विद्युत आपूर्ति एवं जल आपूर्ति का विच्छेदन करने के साथ-साथ अन्य सुविधाओं को तात्कालिक प्रभाव से बंद कर दिया जाए।

उक्त के अतिरिक्त यह भी स्पष्ट करें कि क्यों न आपके उद्योग के विरुद्ध उल्लंघन अवधि हेतु केन्द्रीय प्रदूषण नियंत्रण बोर्ड द्वारा जारी गाईडलाईन के अनुसार रू० 30,000/- प्रतिदिन की दर से निस्तारित औद्योगिक उत्प्रवाह के मानक के अनुरूप प्राप्त होने तक पर्यावरणीय क्षतिपूर्ति अधिरोपित कर दी जायें।

उपरोक्त संबंध में अपना स्पष्टीकरण 15 दिन के अंदर बोर्ड में प्रस्तुत करना सुनिश्चित करें अन्यथा उपरोक्त निर्देशों की पुष्टि कर दी जाएगी जिसका सम्पूर्ण उत्तरदायित्व स्वयं आपका होगा।

सक्षम अधिकारी की अनुमति से निर्गत।

मुख्य पर्यावरण अधिकारी, (वृत्त-2)

.....2.....

टी.सी. - 12 वी, विभूति खण्ड, गोमती नगर,  
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LAK

प्रतिलिपि :-

1. जिलाधिकारी, सोनभद्र को सादर सूचनार्थ प्रेषित।
2. क्षेत्रीय अधिकारी, उ०प्र० प्रदूषण नियंत्रण बोर्ड, सोनभद्र को इस निर्देश के साथ प्रेषित कि अपने स्तर से भी कारण बताओ नोटिस की प्रति उद्योग स्वामी को प्राप्त कराते हुए, प्राप्ति एवं जारी कारण बताओ नोटिस के संबंध में उद्योग का अद्यतन निरीक्षण कर निस्तारित उत्प्रवाह नमूने की विश्लेषण आख्या सहित पर्यावरणीय क्षतिपूर्ति अधिरोपित किये जाने के सम्बन्ध में संस्तुति आख्या 15 दिन के अन्दर बोर्ड मुख्यालय प्रेषित करना सुनिश्चित करें।



मुख्य पर्यावरण अधिकारी, (वृत्त-2)





o/c  
Annexure - B  
16

BC/UPPCB/2021

Date: 14.04.2021

To,  
The Chief Environmental Officer, Circle 2,  
U. P. Pollution Control Board  
T. C- 12<sup>th</sup> Floor, Vibhuti Khand, Gomati Nagar  
Lucknow (U.P.)

Ref: SCN number 161072/C-2/Water-69/K.B. Notice/Sonebhadra/21 Dated 24-03-2021

Dear Sir,

With reference to your letter no. 161072/C-2/Water-69/K.B. Notice/Sonebhadra/21 dated 24.03.21 vide which the show cause notice under section 33-A of Water Act received on 2-04-2021. We wish to submit as under:

The Board has issued the water consent vide letter no. 37095/Uppcb/Sonebhadra(Uppcbro)/CTO/Water/Sonebhadra/2018 dt 30.01.2019 only for the domestic effluent and we are completely complying with the conditions imposed in the order.

With utmost respect it is stated that Birla Carbon, Renukoot Plant was visited by Shri Pakorilal (Member of Parliament), SDM Dhudhi, and Regional Officer UP State Pollution Control Board on 22.01.2021. During the inspection there was no Effluent water is being discharged outside the factory premises. There were certain minor observations related to Plant housekeeping only which have resolved immediately. The Gio tag photographs are also enclosed for ready references. **Annexure 1**

It is pertinent to mention that Birla Carbon, Renukoot Plant is having Zero water discharge scheme with Lamella Clarifier. With the help of this we are recycling our 100% effluent water again in our process. Electromagnetic flow meter is available for recycle water and online real data transmission of effluent water quantity and quality to CPCB is being done. Flow meter reading is being maintained in log book. This is evident from the reduction of intake of fresh water over a period of time after the installation of Zero Water Discharge System. A statement of consumption of recycled water thereby reducing the intake of fresh water for process and domestic purpose is attached and marked as **Annexure 2**.

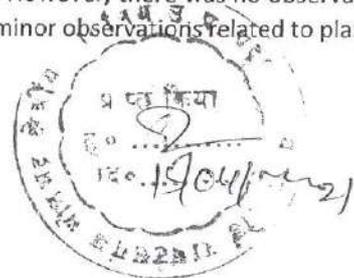
We have also installed Camera in ZLD Plant the feed is also available on the net. No effluent or carbon black is being discharged in any of the rivers flowing in the area.

We are also attaching herewith a flow chart along with photographs of the Zero Water Discharge System which is collectively marked as **Annexure 3**.

Birla Carbon, Renukoot Plant was visited CPCB Team along with Regional Officer, U. P. Pollution Control Board, Sonebhadra on 09-02-2021. The team observed some carbon accumulation near ZLD Plant which got accumulated due to plant floor washing. Some dry carbon was also observed near to plant boundary wall. However, there was no observation or evidence that effluent water being discharged outside company. There were certain minor observations related to plant housekeeping which have since been resolved.

*Rafiqul*

By Hand



Cont...2

Birla Carbon India Private Limited  
(Formerly known as SKI Carbon Black (India) Private Limited)  
Unit : Renukoot

Murdhwa IndL Area, P.O. Renukoot, Dist. Sonebhadra - 231 217, U.P., India

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In fact, the issue related to accumulation of some Carbon near ZLD Plant and some Dry Carbon near Plant Boundary Wall has also been addressed within four days of the Plant visit. We have constructed Dyke Wall near ZLD Plant and also prepared Pit near ZLD Plant to recover any waste Carbon immediately and are ensuring that the same is recycled in the existing Carbon slurry rerun system. The compliance of the site visit observations of 09-02-2021 is also attached and marked as Annexure 4.

It is also pertinent to mention that Environment testing including effluent water testing is done by third party M/s Ecomen Laboratories on quarterly basis and its report is submitted to State and Central Pollution Control Board. During the Plant visit also, we offered the team to collect and test the water sample.

Birla Carbon, Renukoot is responsible company and follows world class Environment and Safety Standards. Birla Carbon, Renukoot is the first company in the region to install Zero Liquid discharge system in the year 2011.

Birla Carbon most respectfully submits that the team of CPCB and State Pollution Control Board may kindly revisit the Plant again and ascertain themselves to their satisfaction that the Plant is fully compliant and all issues that were raised during the earlier visit have been resolved.

It is also respectfully submitted that Birla Carbon, Renukoot should be given an opportunity to rectify the issues, if any, before contemplating any punitive action as stated in the Show Cause Notice.

Without prejudice to our submissions that we are not polluting the River in any manner, Birla Carbon, Renukoot has in fact rectified all internal issues immediately within four days of the Plant visit by the CPCB and State Pollution Control Board team on 09-02-2021, for which we will once again request the CPCB and State Pollution Control Board team to check and satisfy itself.

We, therefore, most respectfully request you that as we are complying with all the conditions of the CTO water order and there is no industrial discharge outside the factory premises so kindly withdraw your Show Cause Notice dated 24 March, 2021 and if you need any further clarification please let us know.

Thanking you,

Yours faithfully,

For Birla Carbon India Private Limited

Unit : Renukoot



Ravindra Kumar Raghuvanshi

Factory Manager/

Unit Head

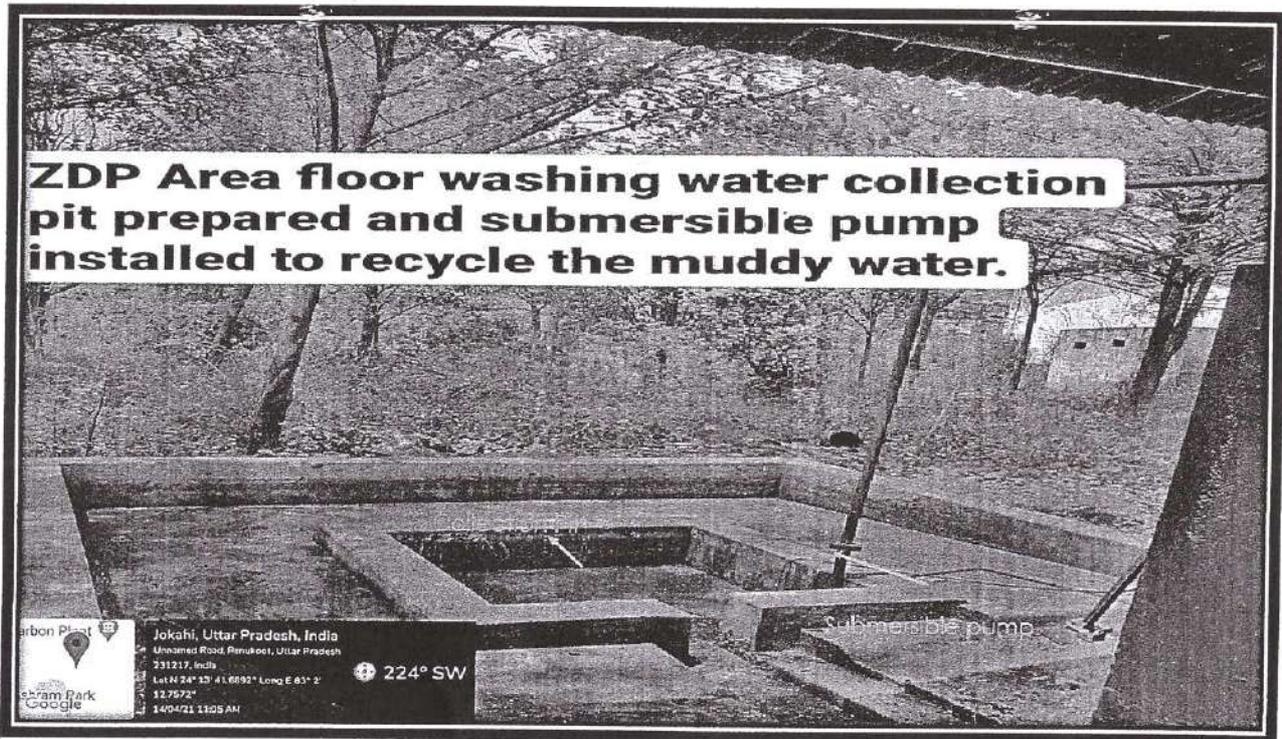
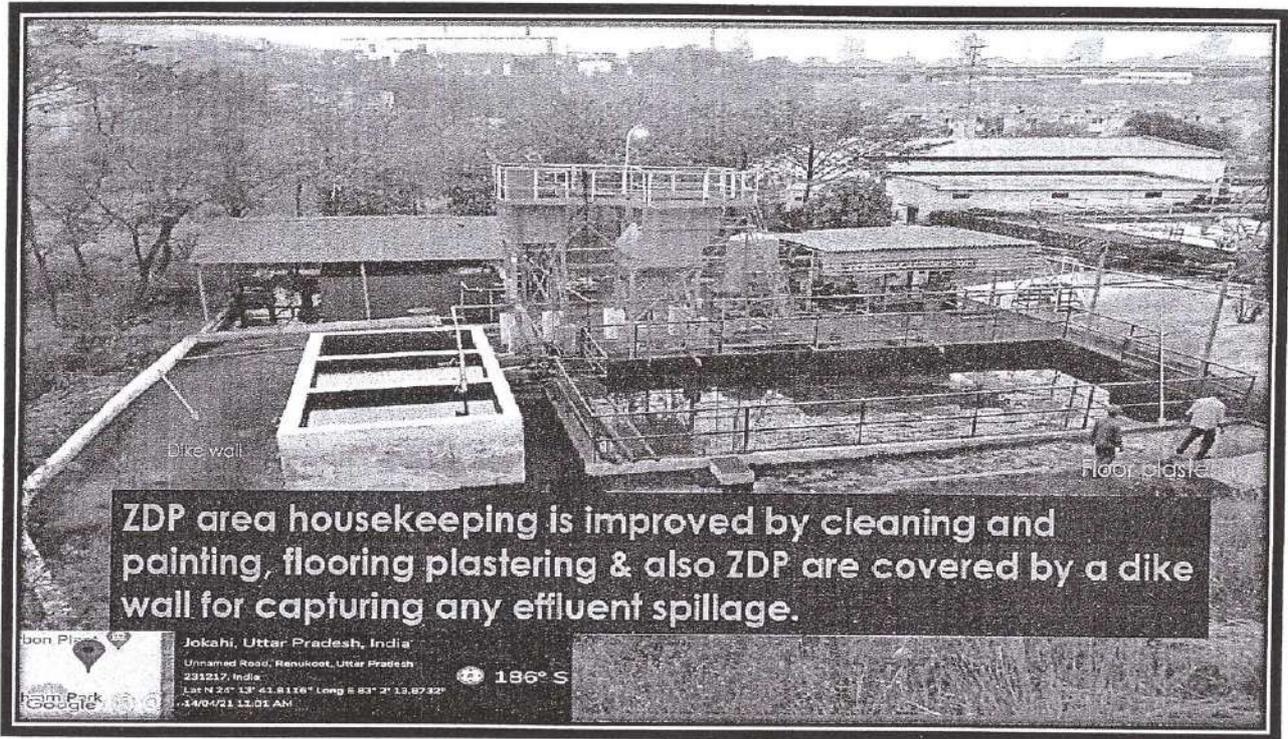
Encl : As above



C/C

1. District Magistrate, Sonbhadra, UP
2. Regional officer, UP Pollution Control Board, Sonbhadra, UP

ANNEXURE-I

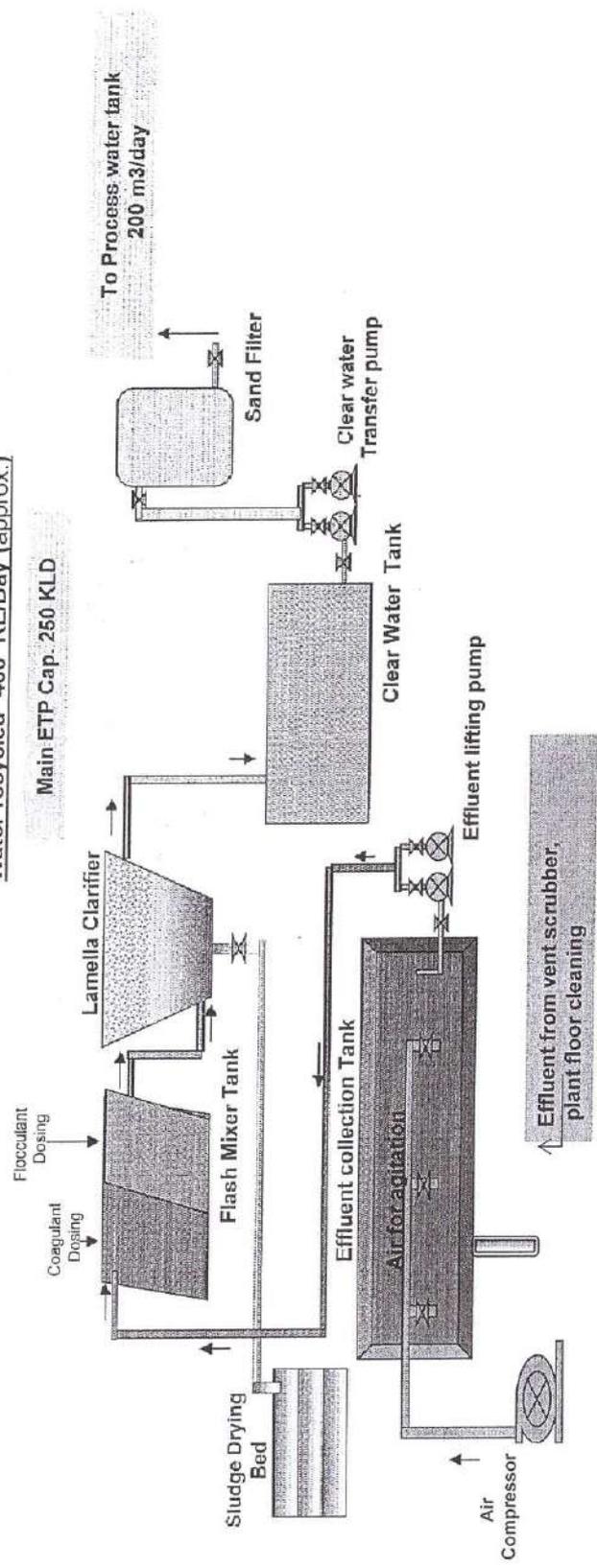


**Birla Carbon India Pvt. Ltd. Unit: Renukoot**  
**ETP & STP treated water consumption for the FY 20-21**

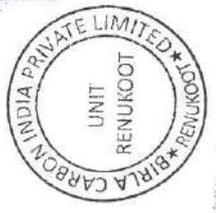
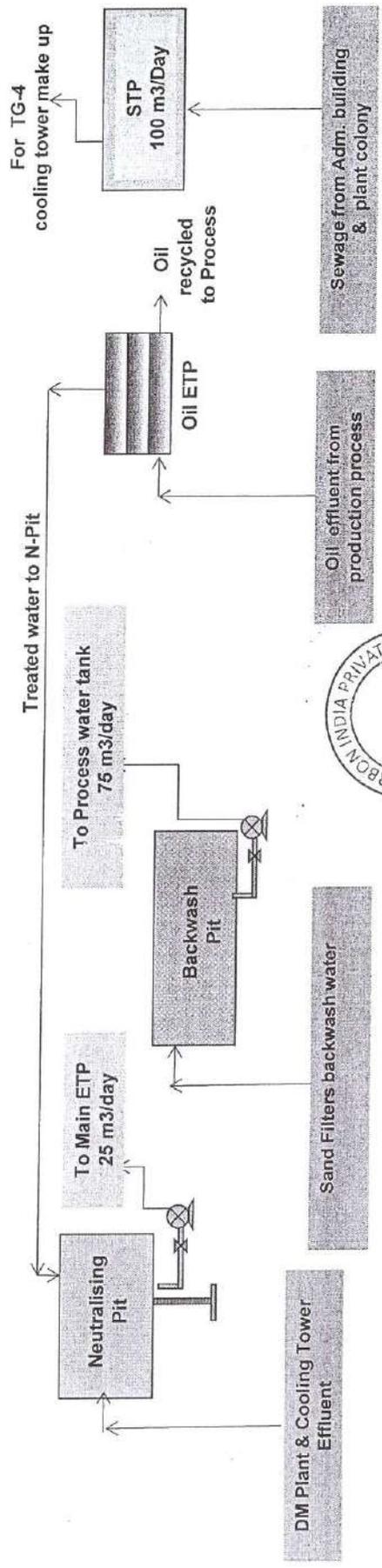
Month	Treated Water Quantity (KL)			Treated Water Consumption Quantity (KL)					Remark
	ETP	STP	Total Treated Water	Manufacturing Process	Plant Floor Washing	Cooling Tower Make-up	Total Treated water consumption		
Apr-20	0	0	0	0	0	0	0	0	Plant was stopped
May-20	2429	1828	4257	1457	972	1828	4257		Low Production rating
Jun-20	4514	2697	7211	2708	1806	2697	7211		Low Production rating
Jul-20	4766	2727	7493	2860	1906	2727	7493		
Aug-20	4658	2893	7551	2795	1863	2893	7551		
Sep-20	5034	3545	8579	3020	2014	3545	8579		
Oct-20	5120	3548	8668	3072	2048	3548	8668		
Nov-20	5163	3079	8242	3098	2065	3079	8242		
Dec-20	4447	3042	7489	2668	1779	3042	7489		
Jan-21	4924	3019	7943	2954	1970	3019	7943		
Feb-21	6140	2996	9136	3684	2456	2996	9136		
Mar-21	8083	2494	10577	4850	3234	2494	10577		



**Effluent treatment Scheme of Birla Carbon, Renukoot for zero effluent discharge**  
 Water recycled 400 KL/Day (approx.)



To Process water tank  
200 m3/day



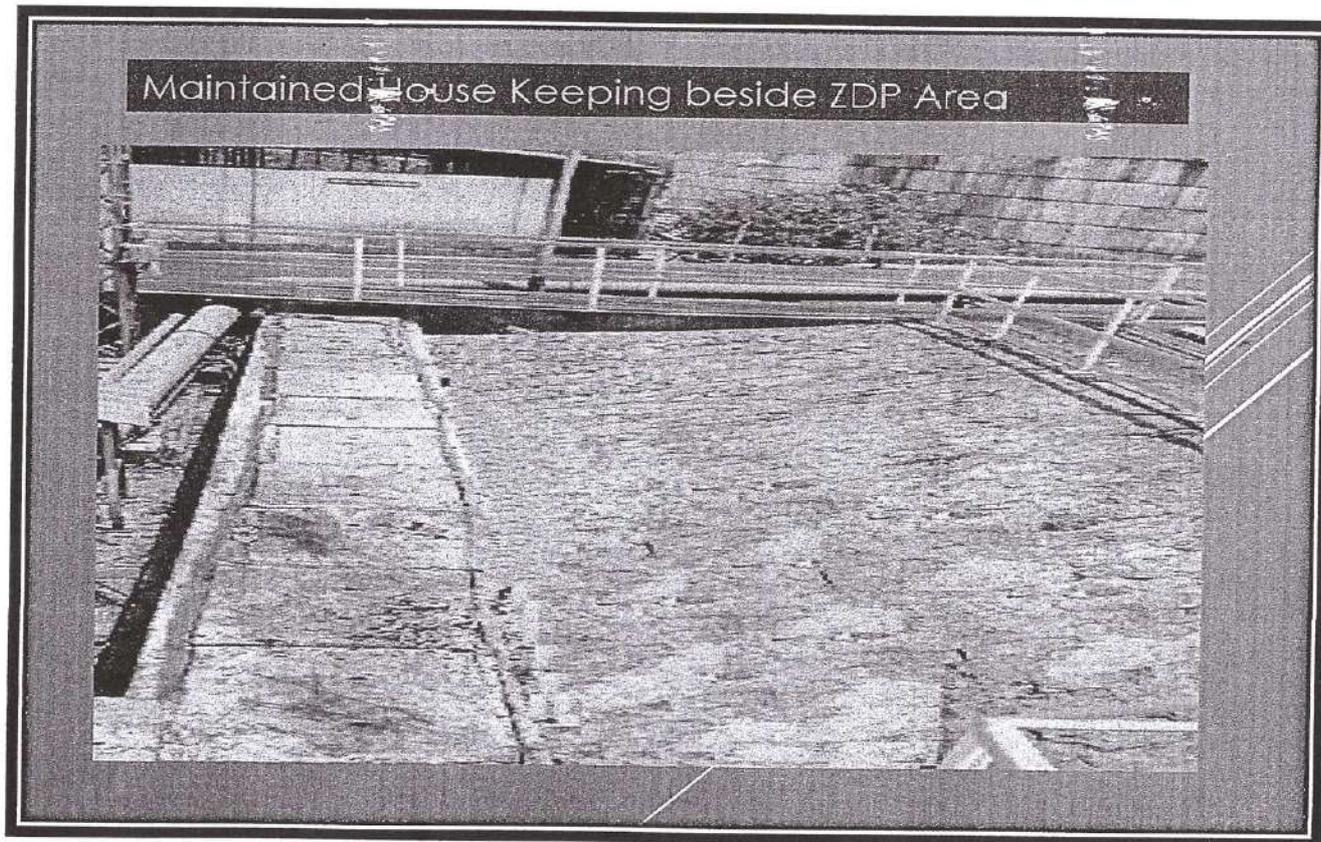
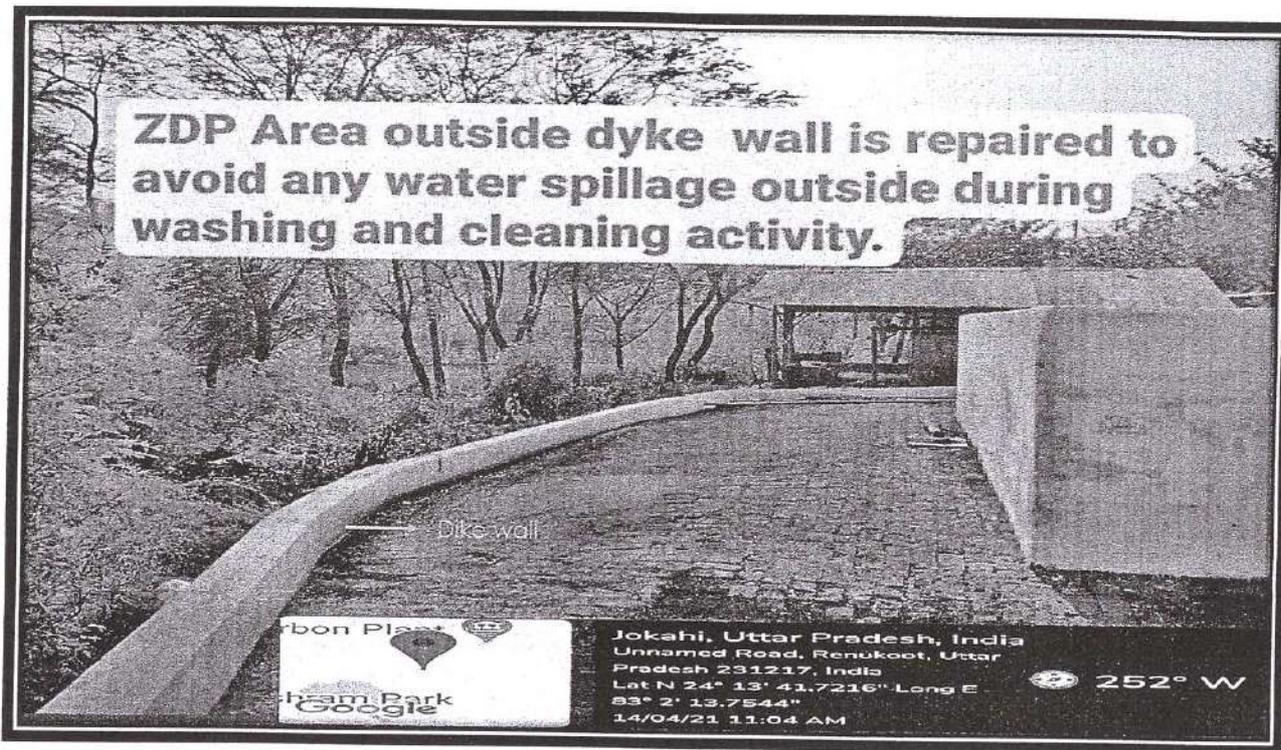
ANNEXURE-IV



Continue.



ANNEXURE-IV





संदर्भ सं.  
Ref. No. /-8442/22 /7-0/-2/17/10/- 1/1/22  
सेवा में

दिनांक  
Date: 29-11-22  
पंजीकृत

मै0 विरला कार्बन इण्डिया प्राइवेट लि0  
(पूर्व नाम मै0 एस0के0आई0 कार्बन ब्लैक (इण्डिया) प्रा0लि0),  
यूनिट- रेनुकूट, मुर्घवा, रेनुकूट, सोनगढ,  
सोनगढ।

विषय- मै0 विरला कार्बन इण्डिया प्राइवेट लि0 (पूर्व नाम मै0 एस0के0आई0 कार्बन ब्लैक (इण्डिया) प्रा0लि0),  
यूनिट- रेनुकूट, मुर्घवा, रेनुकूट, सोनगढ के विरूद्ध पर्यावरणीय क्षतिपूर्ति अधिसूचित नियमों के अन्वय में।

सूचना

उद्योग मै0 विरला कार्बन इण्डिया प्राइवेट लि0 (पूर्व नाम मै0 एस0के0आई0 कार्बन ब्लैक (इण्डिया) प्रा0लि0),  
यूनिट-रेनुकूट, मुर्घवा, रेनुकूट, सोनगढ के पूर्व में केन्द्रीय प्रदूषण नियंत्रण बोर्ड, राज्य बोर्ड तथा जिला प्रशासन, गानगढ़ के  
सदस्यों द्वारा दिनांक 09.02.2021 को किये गये निरीक्षण के समय उद्योग की प्रक्रिया से उत्पन्न उत्स्राव, ई0एल0डी0 का  
अंतर प्लो होकर दिनांक 24.03.2021 द्वारा कारण बताओं नोटिस जारी किया गया था। उद्योग द्वारा अपना प्रत्यावदन  
दिनांक 07.10.2022 को ई0एल0डी0 मुख्यालय को प्रेषित करते हुए सूचित किया है कि औद्योगिक प्रक्रिया से उत्पन्न उत्स्राव का  
कैल्सिएम0हाइड्रॉक्साइड सिस्टम द्वारा शत प्रतिशत पुन चक्रित कर उत्पादन प्रक्रिया में प्रयोग किया जाता है तथा परिसर से बाहर  
किसी प्रकार का उत्स्राव निरस्तारित नहीं किया जाता है। शोधित उत्स्राव के रिसाइक्लिंग की मॉनीटरिंग हेतु  
इलेक्ट्रोमैग्नेटिक प्लो मीटर स्थापित है जिसका ऑनलाईन रियल टाइम मॉनीटरिंग डाटा केन्द्रीय प्रदूषण नियंत्रण बोर्ड को  
प्रेषित किया जाता है। उद्योग के पत्र दिनांक 07.10.2022 द्वारा अवगत कराया गया है कि पूर्व में समिति द्वारा दिनांक  
09.02.2021 को किये गये उद्योग के निरीक्षण के समय प्रक्रिया से उत्पन्न कार्बनयुक्त ओवर प्लो होने के कारण बिना  
सुदृष्टिकृत हुए स्थानीय नाले में निस्तारित होता हुआ पाया गया था। तत्क्रम में उद्योग द्वारा त्वरित कार्यवाही करते हुए 04  
दिन के अन्दर जे0एल0डी0 प्लाण्ट का सुदृढीकरण किया गया था, जिससे उत्स्राव के लीकेज की सम्भावना न रहे।

उपरोक्तानुसार उद्योग से कार्बनयुक्त उत्स्राव ओवरफ्लो होकर स्थानीय नाले में निस्तारित किये जाने के कारण  
उद्योग पर 04 दिवस की उत्लंघन अवधि हेतु रू0 30,000/- प्रतिदिन की दर से रू0 1,20,000/- (रू0 एक लाख बीस  
हजार मात्र) की पर्यावरणीय क्षतिपूर्ति आंकलित है।

उपरोक्त तथ्यों के परिप्रेक्ष्य में एवं सक्षम स्तर से अनुमोदनोपरान्त उद्योग मै0 विरला कार्बन इण्डिया प्राइवेट लि0 (पूर्व  
नाम मै0 एस0के0आई0 कार्बन ब्लैक (इण्डिया) प्रा0लि0), यूनिट-रेनुकूट, मुर्घवा, रेनुकूट, सोनगढ पर रू0 1,20,000/-  
(रू0 एक लाख बीस हजार मात्र) पर्यावरणीय क्षतिपूर्ति के रूप में अधिसूचित किया जाता है तथा निर्देशित किया जाता है  
कि पर्यावरणीय क्षतिपूर्ति की धनराशि को उ0प्र0 प्रदूषण नियंत्रण बोर्ड के, यूनियन बैंक ऑफ इण्डिया, विभूति खण्ड, गौमती  
नगर, लखनऊ स्थित बैंक के खाता संख्या-701502010002104 आई0एफ0एस0 कोड-UBIN0570150 में एक सप्ताह  
के अन्दर जमा कर, जमा की गयी धनराशि का साक्ष्य क्षेत्रीय कार्यालय एवं बोर्ड मुख्यालय में प्रस्तुत करना सुनिश्चित करें।  
उत्स्राव की निश्चित में पर्यावरणीय क्षतिपूर्ति की वसूली हेतु भू-राजस्व की भांति वसूली की कार्यवाही को जायेगी, जिसका  
सम्पूर्ण उत्तरदायित्व उद्योग स्वामी का स्वयं का होगा।

सक्षम अधिकारी के अनुमोद से निर्गत।

मुख्य पर्यावरण अधिकारी (वृत्त-2)

-2-

-2-

प्रतिलिपि :-

1. जिलाधिकारी, सोनभद्र को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
2. क्षेत्रीय अधिकारी उ०प्र० प्रदूषण नियंत्रण बोर्ड, सोनभद्र को इस निर्देश के साथ कि उद्योग से पर्यावरणीय क्षतिपूर्ति की धनराशि निर्धारित समयावधि में प्राप्त न होने की स्थिति में भू-राजस्व की भांति वसूली की कार्यवाही हेतु प्रस्ताव जिलाधिकारी के समक्ष प्रस्तुत किये जाने की कार्यवाही सुनिश्चित की जाये।
3. लेखाधिकारी, उ०प्र० प्रदूषण नियंत्रण बोर्ड, लखनऊ को इस आशय से कि क्षतिपूर्ति मद में प्राप्त धनराशि का विवरण वृत्त को उपलब्ध कराने का कष्ट करें।

मुख्य पर्यावरण अधिकारी (वृत्त-2)



BC/UPPCB/2021

Date: 10.12.2022

To,

The Chief Environmental Officer, Circle -2  
U.P. Pollution Control Board  
T.C.-12 V, Vibhuti Khand Gomati Nagar  
Lucknow (U.P.)

Ref: No. H84822/C-2/water-69/22 Dated 29.11.22.

- Pursuant to-
- 1.SCN number 161072/c-2/Water-69/K.B. Notice/ Sonebhadra/21 Dated 24-03-2021
  2. Our reply to SCN bearing No. BC/UPPCB/2021 dated 14.04.2021
  3. Request letter dated 01/07/2022 for closing the Show Cause Notice.
  4. Letter dated 07/10/2022 along with supporting evidence.

Dear Sir,

In compliance to your Ref. letter No. H84822/C-2/water-69/22 Dated 29.11.22 against your SCN No. 161072/c-2/Water-69/K.B. Notice/ Sonebhadra/21 Dated 24-03-2021 and our reply to above show Cause dated 14.04.2021.

Following above order we had deposited Rs. 1, 20,000/- (One Lakh Twenty Thousand) as an environmental compensation on 06.12.2022 in favor of UP POLLUTION CONTROL BOARD, Bank Ref. no. N340222235073946 Union Bank IFC Code No. UBIN0570150 in compliance to your order Ref: No. H84822/C-2/water-69/22 Dated 29.11.22.

The copy of payment Advice is attached.

Thanking You,

Yours Faithfully,

For Birla Carbon India Limited

Unit: Renukoot

  
Ravindra Kumar-Raghuvanshi  
Factory Manager/ Unit Head

Encl: As above

- cc: 1. Chief Environmental Officer, Circle 22, UPPCB.  
2. District Magistrate Sonebhadra  
3. RO, Robertsganj  
4. Account officer UPPCB Lucknow

Birla Carbon India Private Limited  
(Formerly known as SKI Carbon Black (India) Private Limited)  
Unit : Renukoot

Murdhwa Indl. Area, P.O. Renukoot, Dist. Sonebhadra - 231 217, U.P., India

T : +91 5446 252388 - 91 / 255020 | F : +91 5446 252387 | W : www.birlacarbon.com | CIN : U23201MH2013PTC241741

Marketing Office: 910 - 911, Kailash Building, Kasturba Gandhi Marg, New Delhi - 110 001 | T : +91 11 2335 1069 / 71 | F : +91 11 2335 0594

Regd. Office: Aditya Birla Centre, S. K. Ahire Marg, Worli, Mumbai - 400 030, India | T : +91 22 6652 5000

PAYMENT ADVICE  
BIRLA CARBON INDIA PRIVATE LIMITED  
C/O SKI CARBON BLACK INDIA PVT LTD, ADITYA BIRLA CENTRE, S K AHIRE MARG WORLI  
MUMBAI

Beneficiary's Name : UP POLLUTION CONTROL BOARD

Beneficiary's Code :

Beneficiary's Address :

Client Ref No : UP POLLUTION

Date : 06/12/2022

Bank Reference No : N340222235073946

We have initiated a credit to the Account Number 701502010002104 for the amount of Rs.120000 through NEFT for the below mentioned details.

IFC Code : UBIN0570150

Micr Code :

Beneficiary Bank Name : UNION BANK

Beneficiary Brn Name :

Payment Details 1 : 2211012353

Payment Details 2 : REF.NO. H84822

Payment Details 3 :

Payment Details 4 :

Payment Details 5 :

Payment Details 6 :

Payment Details 7 :

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This is Computer generated advice. Does not require any signature.

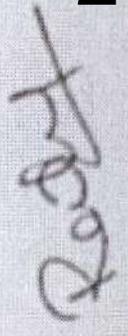
### 5. M/s Birla Carbon India Pvt Ltd, Renukoot, Sonbhadra

#### 5.1. Compliance status of action points identified by the oversight committee.

S. No.	Issues Identified	Compliance Status (As on 31.07.2021)
a)	To achieve ZLD for ETP & STP	<ul style="list-style-type: none"> <li>• The unit is achieving ZLD for ETP &amp; STP.</li> <li>• The leakages through the boundary wall near ETP found during the earlier visit is trapped.</li> <li>• The unit has also installed a CCTV camera at the said spot. And also provided the footage of random dates which shows that the wastewater was not discharging outside the plant boundary.</li> </ul>

#### 5.2. Recommendations of the Committee

- The unit should keep strict vigilance on the area from where the effluent was earlier reaching outside the plant boundary.

## Annexure F



ZLD Area floor washing water collection pit constructed on 12/02/2021 and submersible pump installed to recycle the leaked water.

## Annexure F



1. ZLD Area housekeeping improved by cleaning.
2. ZLD are covered by dike wall for arresting any possible leakages.

05-07-2021 Mon 08:57:11

Land inside  
plant premises

Annexure G

Nallah outside  
plant premises

Boundary wall  
ZLD Area

ZDP BOUNDARY WALL

1\_20210705085709.n





15-07-2021 Thu 10:56:38

Land inside  
plant

Annexure G

Nallah outside  
plant premises

Boundary wall  
ZLD Area

ZDP BOUNDARY WALL

20210715 10:56:04





20-07-2021 Tue 12:22:17

Land inside plant

Annexure G

Nallah outside plant premises

Boundary wall ZLD Area

ZDP BOUNDARY WALL

20210720122153



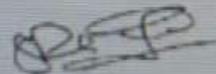
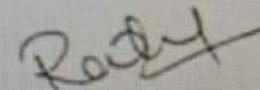
## 5. M/s Birla Carbon India Pvt Ltd, Renukoot, Sonbhadra

### 5.1. Compliance status of action points identified by the oversight committee.

S. No.	Issues identified	Compliance Status (As on 31.07.2021)
a)	To achieve ZLD for ETP & STP	<ul style="list-style-type: none"> <li>• The unit is achieving ZLD for ETP &amp; STP.</li> <li>• The leakages through the boundary wall near ETP found during the earlier visit is trapped.</li> <li>• The unit has also installed a CCTV camera at the said spot. And also provided the footage of random dates which shows that the wastewater was not discharging outside the plant boundary.</li> </ul>

### 5.2. Recommendations of the Committee

- The unit should keep strict vigilance on the area from where the effluent was earlier reaching outside the plant boundary.

Collection Pit

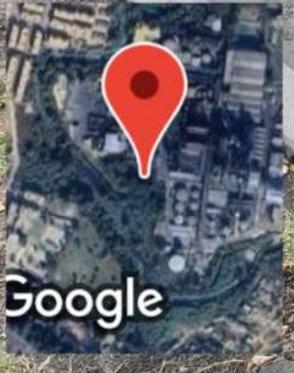


Dyke Wall



Annexure I

Effluent Pit



Google

GPS Map Camera

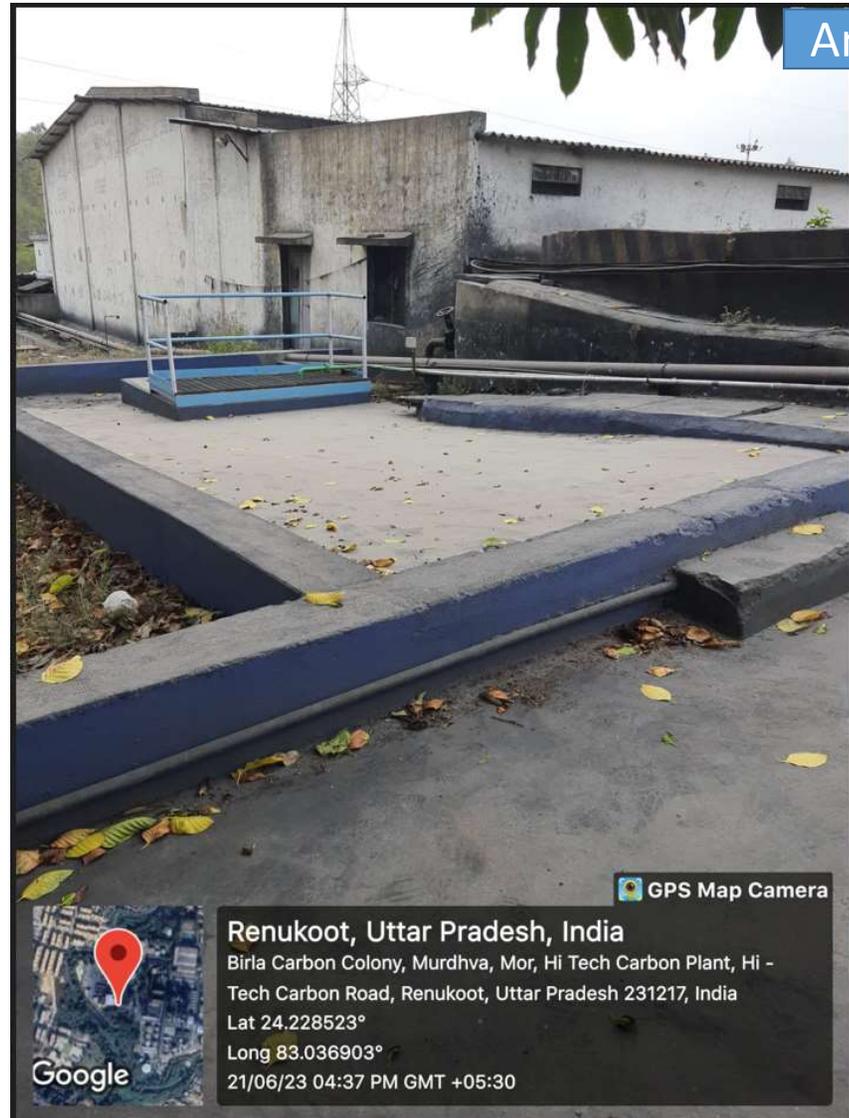
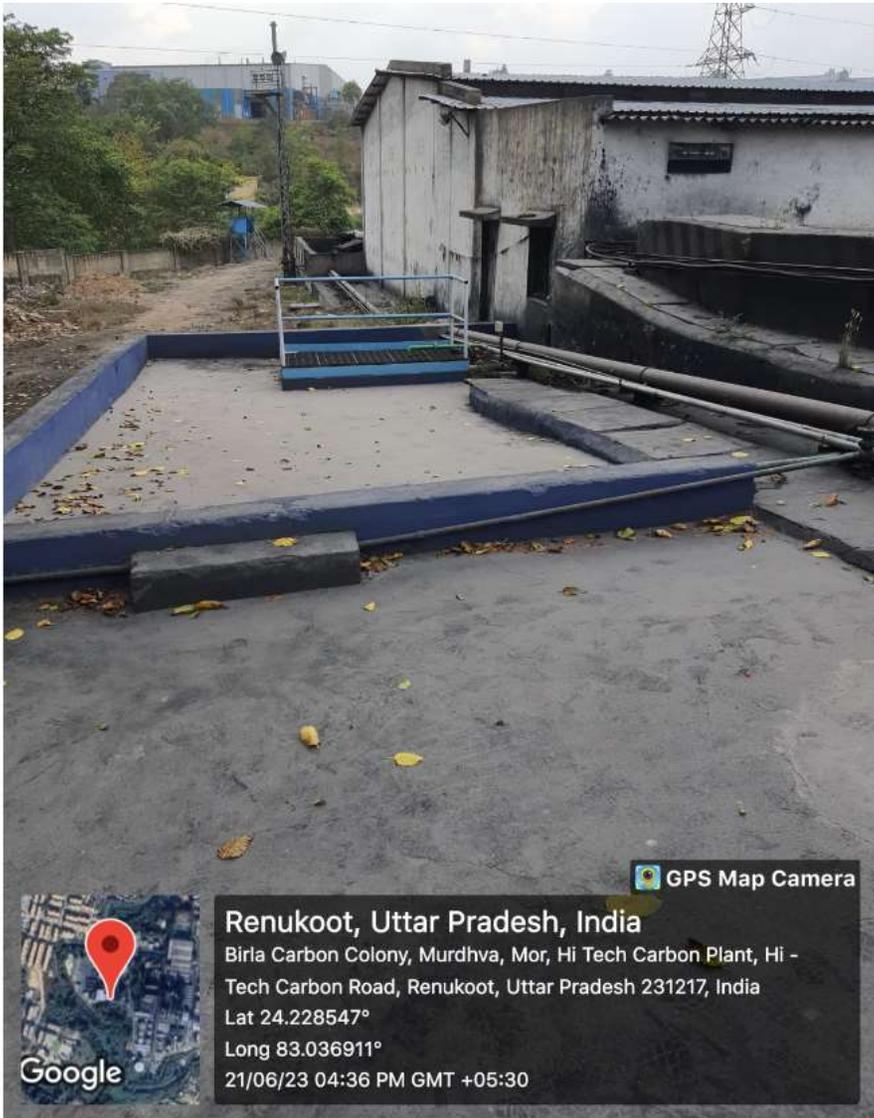
**Renukoot, Uttar Pradesh, India**  
Birla Carbon Colony, Murdhva, Mor, Hi Tech Carbon Plant, Hi - Tech  
Carbon Road, Renukoot, Uttar Pradesh 231217, India  
Lat 24.228218°  
Long 83.037132°  
21/06/23 04:39 PM GMT +05:30



Passage given for water to flow towards collection pit.



Annexure K



## News Paper cutting indicating heavy rainfall in the Renukoot area

**भारी बारिश से रेणुकापार के लोगों का जीवन अस्त-व्यस्त 25 June 2021 Jagrook Express**

Annexure L

रेणुकापार के आदिवासी अंचलों में भारी बारिश की वजह से जन जीवन अस्त व्यस्त हो गया है। भारी बारिश से उफान पर आये नालों के कारण 50 से ज्यादा टोलों का सड़क सम्पर्क कटने की स्थिति पैदा हो गयी। पनारी भरहरी जुगैल बडगवां नेवारी परसोई बैरपुर कनहरा एवं गोठानी सहित दर्जन भर ग्राम पंचायतों में हुई बारिश के कारण दो दर्जन क्षेत्रीय नाले उफान पर आ गए हैं।

जागरण संवाददाता, ओबरा (सोनभद्र) : रेणुकापार के आदिवासी अंचलों में भारी बारिश की वजह से जन जीवन अस्त व्यस्त हो गया है। भारी बारिश से उफान पर आये नालों के कारण 50 से ज्यादा टोलों का सड़क सम्पर्क कटने की स्थिति पैदा हो गयी। पनारी, भरहरी, जुगैल, बडगवां, नेवारी, परसोई, बैरपुर, कनहरा एवं गोठानी सहित दर्जन भर ग्राम पंचायतों में हुई बारिश के कारण दो दर्जन क्षेत्रीय नाले उफान पर आ गए हैं। मूसलाधार बारिश ने पहाड़ों से आये पानी से नाले पांच से 15 फीट तक बढ़ गए। रेणुकापार में 40 से ज्यादा ऐसी जगहें हैं जहां नालों पर पुलिया नहीं है। जिसके कारण ग्रामीणों को जान जोखिम में डालना पड़ रहा है। बीती रात तेज बारिश के कारण ओबरा सहित रेणुका पार के ज्यादातर नालों के जलस्तर में तेजी से वृद्धि दर्ज हुई है। तेज बारिश के बाद दर्जनों टोलों तक एंबुलेंस पहुंचने की संभावना खत्म हो गई है। जिससे आपातकालीन मरीजों के सामने जानलेवा स्थिति पैदा हो गई है। कई स्थानों पर पिछले दो दिनों के दौरान आपातकालीन मरीजों को खटिया पर ओबरा इलाज के लिए लाया गया है। सबसे ज्यादा दिक्कत गर्भवती महिला को हो रही है। कई नाले हुए खतरनाक

News Paper cutting indicating heavy rainfall in the Renukoot area

Dainik Jagaran 24<sup>th</sup> June 2021

Annexure L

लेकर ध्यान कई बार आकृष्ट गया गया। लेकिन महज आश्वासन भर लोगों को उनके भाग्य भरोसे इ दिया जाता है। (जम्हा)

**र्चा अध्यक्ष**



अध्यक्ष बनाए जाने पर स्वागत करते हैं

एवमार को बताया कि जिलामंत्री का क्षेत्रीय अध्यक्ष बनाया गया है। महेश चंद्र श्रीवास्तव के निर्देश ए जाने पर कार्यकर्ताओं ने खुशी से उन्हें जो जिम्मेदारी सौंपी है, अजीत रावत को काशी क्षेत्र पर कार्यकर्ताओं ने माल्यार्पण शोक मिश्रा, डा. चर्मवीर तिवारी, अमन वर्मा आदि रहे। (जम्हा)

**दैनिक जागरण**

**हल डायरेक्ट्री वाराणसी**

आरोग्य रोग विशेषज्ञ

## जमकर बरसात होने से भाट क्षेत्र के नदी-नाले उफानाए

भाट क्षेत्र के लोझरा, डुड़ियानाल, अमहवा, गिदाही प्रभावित

● कई जगह संपर्क मार्गों पर जमा लबातव पानी

● आवागमन में लोगों को झेलनी पड़ी भारी फजीहत



भाट क्षेत्र के लोझरा पहाड़ी के पास संपर्क मार्ग पर बने गड्ढों में भरा पानी

● जागरण

लगा। इस दौरान पुलिया पर भारी कीचड़ जम गया, जिससे लोगों को आवागमन करने में भारी असुविधा का सामना करना पड़ा।

जमकर बरसात होने से लोझरा के खोरिया बस्ती के पास बनी पुलिया के ऊपर से नाले का पानी बहने लगा। इसी तरह गुलालीडीह संपर्क मार्ग पर भी बरसात का पानी लबातव भर गया। मार्ग पर भारी कीचड़ हो जाने से

**कांग्रेस एक विचारधारा व आंदोलन**

जास, सोनभद्र : सदर ब्लॉक के मुसली गांव में बुधवार को कांग्रेस कार्यकर्ताओं ने बैठक की। कांग्रेस नेता राजेश द्विवेदी ने कहा कि उत्तर प्रदेश कांग्रेस कमेटी पर गैर कांग्रेसी विचारधारा के लोगों के प्रभाव होने पर हर तरह से असंतोष है।

कहा कि कांग्रेस एक विचारधारा व आंदोलन है। लेकिन पिछले कुछ समय से उत्तर प्रदेश में कांग्रेस की विचारधारा और कांग्रेस के आंदोलनकारी नेताओं को कमजोर किया जा रहा है। जिसके बारे में राष्ट्रीय अध्यक्ष को बताना और तत्काल उचित पहल को अपेक्षा किया जाना निर्णित अनिवार्य है। येतावनी देते हुए कहा कि अगर ऐसा ही चलता रहा तो मिसन 2022 की चुनौती का सामना करने में पार्टी असफल हो जाएगी। इस मौके पर डा. मनीष उपाध्याय, डा. अनुपम पांडेय, डा. एसपी सिंह, उमेशचंद्र शुक्ला, पंकज दुबे आदि रहे।

**वैक के पास से बाइक की चोरी**

जास, घोषण (सोनभद्र) : स्थानीय मुख्य बाजार में स्थित भारतीय स्टेट बैंक के समीप खड़ी मोटरसाइकिल बुधवार को चोरों ने उड़ी दी। कुरहुल निवासी अशोक कुमार मोया ने बताया कि वे अपनी बाइक सुबह साढ़े नौ बजे स्टेट बैंक के पास लीक कर डुकान में चले गए। कुछ देर बाद लौटे तो वहां से बाइक गायब थी।

**सवारियों से भरी बस**

# News Paper cutting indicating heavy rainfall in the Renukoot area

## Annexure L

Dainik Jagaran 20<sup>th</sup> June 2021

### 19 दिन में ही औसत से अधिक 182 मिमी हुई बरसात

नदियां भी उफान पर, जिला प्रशासन प्रभावित इलाकों पर रख रहा नजर

जगन्ग संवाददाता सोनभद्र : जिले में लगातार कई दिनों से हो रही तेज बारिश के चलते नदी-जले उपफन पर हैं। लगातार रुक-रुक कर हो रही बारिश से आमजन बेहाल है। अठार दिनों से हुए नहीं निकली है। एक से लेकर 19 जून तक पूरे महीने के औसत से अधिक बारिश हुई है।

सोनीपल में जून महीने में हुई निकास बारिश से हर तरफ पानी-पानी दिखाई दे रहा है। 19 दिन में ही औसत से अधिक बारिश रिकार्ड की गई है। अब तक जून में 182 मिलीमीटर बारिश हो चुकी है। वहीं इस महीने की औसत बारिश 104.5 मिलीमीटर है। इस महीने में अभी 11 दिन शेष बचा है। ऐसे में बारिश होने पर इसमें और अधिक वृद्धि होगी। एक से 19 जून के बीच राबर्टसगंज तहसील में 183, दुर्गो में 140.06

जगन्ग संवाददाता, सोनभद्र : जिले में लगातार कई दिनों से हो रही तेज बारिश के चलते नदी-जले उपफन पर हैं। लगातार रुक-रुक कर हो रही बारिश से आमजन बेहाल है। अठार दिनों से हुए नहीं निकली है। एक से लेकर 19 जून तक पूरे महीने के औसत से अधिक बारिश हुई है।

सोनीपल में जून महीने में हुई निकास बारिश से हर तरफ पानी-पानी दिखाई दे रहा है। 19 दिन में ही औसत से अधिक बारिश रिकार्ड की गई है। अब तक जून में 182 मिलीमीटर बारिश हो चुकी है। वहीं इस महीने की औसत बारिश 104.5 मिलीमीटर है। इस महीने में अभी 11 दिन शेष बचा है। ऐसे में बारिश होने पर इसमें और अधिक वृद्धि होगी। एक से 19 जून के बीच राबर्टसगंज तहसील में 183, दुर्गो में 140.06

नगदा शपा के इन्हीरा गांव में भरत बारिश का दानी

अपने जर्जर हो चुके मकान को गिरा हुआ देखने को विषम नजर आए। आम जनजीवन अस्त-व्यस्त हुआ तो नदियों व अन्य जलाशयों के जलस्तर में भी वृद्धि दर्ज हुई। बारिश से नदी और नालों में पानी उपफन पर

**रिकार्ड**

- शहर व ग्रामीण क्षेत्रों में जलजमाव से रिचार्ज हुई नारकीय
- जलाशयों के जलस्तर में भी वृद्धि कृषि कार्य में जुटे किसान

है। खेत-बगवानी जल मगन हो गए हैं। किसान कृषि कार्य में तेजी से जुट गए हैं। शुक्रवार को रात से शुरू हुई बारिश का सिलसिला शनिवार तक जारी रहा। इसका नतीजा यह रहा कि राबर्टसगंज नगर समेत ग्रामीण इलाकों में स्थिति बदतर हो गई है। ओबरा, रेणुकापुर सहित आसपास के इलाकों में लगातार बारिश होने से अब लोगों में चिंता होने लगी है। कई पहाड़ी नदियों में एक बार फिर से उपफन को रिचार्ज बनने लगी है। इससे जिला प्रशासन को निगाहें भी अब प्रभावित इलाकों की ओर हो गई हैं।

**वादा से निपटने के लिए कंट्रोल रूम में करें शिकायत**

जगन्ग संवाददाता, सोनभद्र : लगातार हो रही बारिश के चलते होने वाली समस्याओं को लेकर कंट्रोल रूम स्थापित किया गया है। कोई भी व्यक्ति सोन नदी का जल स्तर खंडने के निगरान से अधिक होने व किसी भी जगह बहाव आने की सूचना पर कान्फेक्ट में स्थापित वादा नियंत्रण कक्ष के नंबर 05444-222030 पर दे सकता है। वहीं बची प्रसन्न द्वितीय राबर्टसगंज के कार्यालय में खंडने का वादा नियंत्रण कक्ष के दूरभाष नंबर 05444-297349 पर भी सूचना दे सकता है। कंट्रोल रूम सक्रिय कर दिया गया है।

**पिकनिक स्थल गुलजार**

जगन्ग संवाददाता, सोनभद्र : एक तरफ जहां भयंकर बारिश से आमजन बेहाल रहे तो वहीं दुसरी तरफ जिले के जलप्रपात अलग ही रंग बिरंग रहे थे। जिला मुख्यालय के सबसे नजदीक इधरे वादाट के पास सुबह से ही एकता की टोली प्युटरी गुरुक हो गई। दोपहर को जैसे ही इटदंड ने खोली देर के लिए बारिश से बहाव की ती कई परिवार जलप्रपात का मजा लेने पहुंचे। बारिश के मौसम में जिले के तमाम इरने अपने पूरे रगत में रहती है। यहां पर अगर खोली प्रशासनिक सुविधा बंद हो जाए तो बेहाल पिकनिक स्थल बन जाए। अदवाला के दिने में यहां पर भीड़ रहती है। इसको ध्यान में रखते हुए पुलिस प्रशासन की तैयारी भी अति आवश्यक है ताकि कोई अनारोनी घटित न हो।

**राहुल गांधी के**

कारण के पूर्व राष्ट्रीय अध्यक्ष बनने वाली के कार्यवाही

सोनभद्र : कांग्रेस के पूर्व नर राबर्टसगंज इलाक़ा में युवा को केक काटा गया। इसकी फिट का कितना विषय गया पाई। इन्हन अध्यक्ष राजीव प्रसोद पांडेय टीए, गुजरा की

**खोदकर छोड़ दी पटरी, रा**

जगन्ग संवाददाता, दादा : स्थानीय पुलिस चौकी क्षेत्र के तेलगुइया मंडे पर दाईं माह पूर्व मार्ग के किनारे पटरी खोदकर छोड़े जाने से लोग गिरकर घायल हो रहे हैं। दुकानदार हो या राहगीर, सबके लिए बड़ी परेशानी खड़ी हो गई है।

खालासी-सोनीपल मार्ग पर

केमगुवा भीड़ पर सख्त निगरानी

**फिल्म रिल्यू**

गोस्नी

**गुराती है, पर दहाड़ती नहीं**

## Annexure M

Outlet of erstwhile fountain removed



Annexure N

ZLD Area  
Boundary Wall

 **GPS Map Camera**



**Jokahi, Uttar Pradesh, India**  
62HP+F33, Jokahi, Uttar Pradesh 231217, India  
Lat 24.22856°  
Long 83.036403°  
16/06/23 11:53 AM GMT +05:30

# On the road to net zero

Birla Carbon Sustainability Report 2022



Introduction

Our approach

Our product

Environment

Customers and suppliers

Our people

Communities

Governance and ethics

Appendix

## Our progress on sustainability in FY2022

At Birla Carbon, we have been sharing our expert knowledge of carbon black and its applications for over a century. As our company has evolved, we have also been pushing sustainability forward for the environment, for our customers and suppliers and for our people and communities. We are proud to share our tenth sustainability report this year.

### About our tenth report

Our tenth report includes performance highlights from April 2021 to March 2022 (FY2022) covering the full scope of our global operations. It contains a detailed analysis of performance against our Sustainable Operational Excellence (SOE) strategy and goals over the past year and highlights specific targets for the future.

Since FY2013, through our annual sustainability report, we have documented our journey to promote transparency while continuing to learn through ongoing monitoring and evaluation of our approach. We welcome suggestions and feedback from our stakeholders – including customers, employees and suppliers – as we work to fully embed sustainability-led thinking throughout our global business.

This report is approved by Birla Carbon's Senior Management Team and has been produced in accordance with the GRI 2016 Standards at Comprehensive level.

Read our [Global Reporting Initiative and United Nations Global Compact \(UNGC\) Indices 2022 \(PDF\)](#), including references to the relevant Sustainable Development Goals (SDGs).

Visit [www.birlacarbon.com](http://www.birlacarbon.com) for additional information, including our detailed materials map.

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# Celebrating our tenth sustainability report

At Birla Carbon, we have been creating carbon black, which adds value to countless everyday products, for over a century. We share the strength of our product, organization and impact with our stakeholders as we drive circularity and sustainability progress. Our SOE strategy will continue to build on these foundations as we embed sustainable thinking at every level and advance responsible stewardship of the environment.



What we have achieved so far...

## FY2013

- Adapted our sustainability and SOE strategy, and created our Sustainability Steering Committee
- Conducted our first materiality assessment



- \$25.8 million invested in process improvements related to energy efficiency and greenhouse gas (GHG) emissions reductions in 2012 and 2013
- 5.2% reduction in direct CO<sub>2</sub> emission intensity from 2011 to 2012
- More than 7 million people in 3,000 Indian villages supported through our community investment programs

## FY2014

- First product Life Cycle Assessment conducted
- 100% of feedstock suppliers reviewed for their sustainability activity for the first time
- 16 of 17 manufacturing sites gained International Organization for Standardization 14001 certification
- First global customer satisfaction survey conducted

## FY2015

- Launched our Code of Ethics to suppliers
- 47% reduction in Total Recordable Incident Rate
- Conducted first water risk assessment for all sites
- \$250,000 committed to supporting math and science students in Marietta, Georgia

## FY2016

- \$33.4 million invested in process improvements related to energy efficiency and reducing GHG emissions
- Achieved our best safety record in 170 years
- Mapped our contribution to the UN SDGs



- Conducted our first megatrend analysis for future-proofing
- First CDP disclosures on climate change and water

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## FY2017

- Our Product Stewardship Standard active across all our sites
- \$21 million invested in process improvements related to energy efficiency and reducing GHG emissions
- Achieved our first EcoVadis Gold Rating
- Began rolling out Commitment Based Safety across our facilities



## FY2018



- Uncovered our company's Purpose: Share the Strength
- Fulfilled the WBCSD Pledge for Access to Safe Water, Sanitation and Hygiene (WASH) at the workplace

## FY2019

- Three-quarters of our plants achieved energy positive status
- 100% of our suppliers screened using NAVEX Global's RiskRate due diligence system



## FY2020

- Launched our first Hype Open Innovation campaign for employees to submit their ideas to develop our business and products
- Became the first carbon black multinational to receive International Automotive Task Force (IATF) certification across all its manufacturing plants



- Developed a Nanocellulose Dispersion Composite (NDC™) in partnership with GranBio, which enhances the sustainability of tires and rubber goods

## FY2021

- Became signatories of the UNGC, committing to share the positive impact of our business with society
- Pledged to lower our carbon emissions to net zero by 2050

- Our state-of-the-art greenfield facility began operating in Jining, China
- Set our target to repurpose 75% of waste by 2030
- Developing our third-party due diligence system to ensure we only work with suppliers, service providers, distributors and sales agents that have a good track record in terms of business ethics

- Introduced our Serious Injury and Fatality initiative to reduce accidents in six key operations areas
- Repurposed 43% of our waste



- Following the COVID-19 outbreak, we leveraged our global geographical footprint to ensure employees could access personal protective equipment

- Measured baseline circularity of our business using the Ellen MacArthur Foundation's Circulytics tool

- Launched Continua™ SCM, our first Sustainable Carbonaceous Material designed to re-enter the economy as new tires, plastics or rubber compounds



- Awarded Gold rating by EcoVadis for the fifth consecutive year

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## FY2022 This year's highlights



Birla Carbon is refinancing existing debts through a **\$750 million** loan linked to our sustainability performance.

**Committed to protecting our planet**



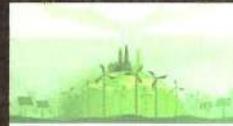
The 4Rs: Research, Reduce, Replace and Repurpose, lead our strategy for lowering GHG emissions to **achieve net zero**.

**Reducing our GHG emissions**

**CONTINUA**  
Leading innovation for sustainability

Developed our Continua™ SCM Carbon Footprint Statement, a publicly available document developed to promote transparency and help our customers determine the complete carbon footprint of their own products.

**The circularity of carbon black**



Upon completion of Cirtced's new facility, **73,000 tonnes** of Continua™ SCM will eliminate **228,000 tonnes** of direct and indirect CO<sub>2</sub> emissions annually when compared to the conventional carbon black process.

**The circularity of carbon black**

**Big INNOVATION**  
SHARE THE IDEA

We launched our new **Hype Open Innovation** campaign for employees to submit their ideas to improve workplace safety and achieve our net zero target.

**Employee engagement**



We have been awarded a **Platinum Rating** by EcoVadis, following five consecutive years of Gold Ratings.

**Global recognition**



All our 12,000+ suppliers screened using NAVEX Global's RiskRate® due diligence system.

**Supplier management**

**ICBA**

Seven Birla Carbon plants and two research and development laboratories received a **Gold Award** from the International Carbon Black Association (ICBA) for their safety performance.

**Health and safety**



Repurposed **67%** of waste, reducing the amount of waste sent to landfill.

**Waste**



Birla Carbon remains the only **carbon black multinational** to receive IATF certification across all its manufacturing sites.

**Product quality**

## Progress towards our FY2030 goals

Goal	Status	FY22 Figure	Goal	Status	FY22 Figure
Improve our leadership position in terms of carbon black production capacity	On track	No. 2	Record zero environmental releases year on year	Behind schedule	12
Approximately double our annual capital spending against FY2012 baseline to reach \$100M	On track	\$81M	Achieve zero recordable injuries year on year (employee and contractor Total Recordable Incident Rate (TRIR))	Behind schedule	0.52
100% of active employees to receive Code of Ethics training	Behind schedule	52%	100% of Birla Carbon managers to have stated and measured goals set annually (percent of managers by year)	Target met and retained	100%
Increase our absolute energy-conversion efficiency to 80%	On track	71.6%	Remain above the chemical industry annual benchmark for employee engagement <sup>2</sup>	Target met and retained	86%
Reduce our direct CO <sub>2</sub> emissions intensity by more than 22% against the 2005 baseline	Behind schedule	95%	Remain above the Net Promoter Score threshold of 35 <sup>3</sup> (score by year)	Target met and retained	63
Reduce our water withdrawal intensity (m <sup>3</sup> per tonne of carbon black) by 50% versus FY2013 baseline at our high- and medium-risk sites <sup>1</sup>	Behind schedule	97%	100% of our facilities participate in community engagement	Target met and retained	100%
75% waste repurposed, including recycling, reuse and recovery, by 2030	On track	67%			

<sup>1</sup> Key performance indicator (KPI) includes Hickok, Cubatão, Garmidipooor, Alkaidrik, Weifang and Bahía.

<sup>2</sup> The KPI was amended in FY2020 to exclude the results of the Team Vibes survey. It has also been modified to show results for calendar year rather than financial year, in line with Vibes survey timings.

<sup>3</sup> Net Promoter Scores range from -100 to +100.

# Environment

Striving to reduce our footprint

**In this section:**

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## Committed to protecting our planet

As an international business, with customers and operations in countries all over the world, we recognize our responsibility to safeguard the environment. This means taking a long-term view and continually adapting and investing in our environmental stewardship to use resources more efficiently and minimize our adverse impacts.

**BEYOND DURABLE**  
Carbon black has been a part of human life for centuries and will continue to be integral to our lives in the future. This is why we are taking a long-term view of innovation, and why sustainability must be central to our growth strategy.

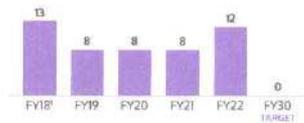
[Find out more about our five Purpose Principles](#)

**WE SUPPORT THE FOLLOWING SDGS THROUGH OUR WORK**



**Progress towards our target:**

- TARGET:**  
Record zero environmental releases year on year
- STATUS: BEHIND SCHEDULE**  
Birla Carbon strives for continual improvement for all Health, Safety and Environmental (HSE) efforts. In line with this, we have continued to focus on reducing and eliminating carbon black releases, which have been the cause of the majority of our environmental releases globally. For several of our facilities, which are located close to populated areas, Birla Carbon has proactively taken the approach to notify the authorities any time there is a visible release of carbon black, regardless of how small it may be. This increased reporting rigor has helped sites in these situations focus on operator training and operational controls that can help to eliminate the visible emissions. However, there are times when equipment malfunctions cannot be predicted, and thus result in a minor release.



**Sustainability Linked Loan**

In 2021, we secured a \$750 million sustainability-linked loan (SLL) with a syndicate of more than 15 banks. Following the launch of our Continua™ Sustainable Carbonaceous Material (SCM), the SLL challenges us to further explore sustainable and innovative solutions that will support our 2050 net zero carbon emissions goal and those of our customers.

Linking our borrowing programs to Sustainability and Innovation – two of Birla Carbon's key pillars responsible for our leadership in the industry – has brought immense synergies of shared aspirations with all our business partners and stakeholders to give us a real competitive advantage in the years to come.

Main key performance indicators (KPIs) for the facility include direct CO<sub>2</sub> intensity, bringing circular products to market and an external sustainability rating.

1. In FY2018, we had two tonnes of carbon black/feedstock exceeding regulatory reporting limits to soil and one to air. The remaining releases were reported on a voluntary basis to regulatory authorities.

## Our approach to considering the environment at every step of our process

Leading the way for the industry, Life Cycle Assessments (LCAs) cement our sustainability approach by evaluating all environmental impacts in a product life cycle, from raw material extraction through to end-of-life. We know our responsibility doesn't end at our facilities. To achieve a more circular economy, we collaborate with our entire value chain to understand and reduce our impacts.

### Aligning our projects with sustainability

We have an internal process for evaluating the sustainability impacts associated with projects throughout the planning, development and financing stages.

#### Stage-gate evaluation

At early phases of a project, the stage-gate process begins, with the Corporate Health, Safety and Environment (HSE) team providing an evaluation of the proposed project. The team reviews against regulatory requirements for safety, environmental and product stewardship issues and against existing Birla Carbon HSE standards.

#### Project development

Once a project receives stage-gate approval the Corporate HSE team continues to work with the appropriate subject matter expert depending on the topical area. During this phase, concerns around health, safety, environmental or product stewardship are evaluated with a focus on minimizing impact on the environment, the community, employees and customers.

### Appropriations request review

All HSE, product stewardship, sustainability and expansion projects are reviewed by the Global Director HSE. This review includes evaluation of the legal, regulatory and internal standard requirements.

### Understanding our impact from cradle to gate

We measure the impacts of every step of our production process. Our "cradle to gate" LCAs follow International Organization for Standardization (ISO) 14040 guidelines: from the moment the raw materials are extracted to the moment the product is delivered to our customers. Through regular LCAs we can better understand our environmental impact, including a range of emissions, land use, and mineral, fossil and renewable resource depletion. LCAs also highlight human risks such as toxicity. This process helps us to identify opportunities to improve our environmental performance and quantify our ongoing contribution to circularity.

[Learn about the variety of environmental impact categories we assessed through our LCA in our GRI Index.](#)

### Promising results – lower than average impact

We have compared our LCA results with those of the general carbon black industry, which are recorded byecoinvent. While their process is not fully representative of our manufacturing process, it does represent impacts for carbon black production globally. The results show that our production impacts are lower than industry averages.

### Our emission-, water- and waste-reduction methods

We are responsible for ensuring we monitor and minimize the emissions our processes produce. Our methods include: investing in pioneering air-emission-control technologies, increasing energy efficiency at our plants, sourcing local feedstock oil and recovering energy to be recycled back into our operations, or sold on to neighboring facilities. We monitor our emissions and continue to invest in new technologies to guarantee compliance with local regulations in the areas where we operate. We are committed to ensuring our production facilities do everything possible to prevent the release of carbon black dust into the atmosphere.

Although the quantity is relatively small, we generate waste at all stages of our industrial process, from manufacturing to packaging, and we are implementing strategies to reduce, reuse and recycle this waste. We work in areas where water scarcity is an issue, so we have developed a strategy that identifies where we can improve usage and where we can reduce the strain on potable water sources.

#### [Reducing our GHG emissions](#)

Our Environmental Policy, published in FY2018, outlines our commitment to continually improving the performance of our sites and products through compliance, transparent engagement and innovation.

#### [Our Environmental Policy](#)

### Green Finance Framework

We have developed a Green Finance Framework to outline criteria and provide guidelines for Birla Carbon to enter, identify eligible assets for, manage the proceeds of and report on green finance transactions (GFTs).

GFTs include debt-financing instruments whose proceeds are applied towards eligible green projects or assets including green loans and bonds. Ultimately the Framework demonstrates best market practices and requirement management under GFTs in relation to international principles and our approach to sustainability.

We successfully concluded the first GFT under this framework, in the form of a green loan of \$50 million. This loan will refinance a part of the capital expenditure for installing state-of-the-art air-emissions-control technology at our plant in North Bend, Louisiana.

## Promoting transparency and collaboration

From the results of our most recent carbon black and Continua™ LCAs, we developed Carbon Footprint Statements. These statements are publicly available as a tool to help our customers determine the complete carbon footprint of their own products. They also ensure we are communicating transparently on our impacts.

- [Our Carbon Footprint Statement](#)
- [Continua™ Carbon Footprint Statement](#)

In FY2015, we began to disclose our performance through CDP, which we continue to do annually through its online platform. CDP is a nonprofit organization that works with companies and shareholders to disclose carbon emissions and the use of natural resources. In FY2022, we voluntarily responded to its Climate Change questionnaire, receiving a B rating, and replied to specific customer requests for information on our carbon footprint through our Supply Chain response.



### Seawater scrubbing innovation – North Bend, USA

In 2012, we began to engage with the US Environmental Protection Agency (EPA), Department of Justice and various state agencies to understand anticipated emissions-reduction targets. Internally, we started evaluating technologies that would reduce our nitrogen oxide (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) emission levels.

As part of this evaluation process, we considered other environmental impacts beyond just air emissions and how we could reduce these as much as possible through our technology selection, design and construction. For instance, if we were to utilize the wet flue gas desulfurization process, the site would have to dispose of approximately 1.44 million lbs each week forever. We estimate that this extra generation of gypsum solid waste in the area would have reduced the life of the local landfill from over 30 years to less than 12 years.

We therefore explored a novel technology that was not being used anywhere in the US to remove SO<sub>x</sub> using seawater. We engaged consulting firms to research regulatory permits and water sources for seawater scrubbing at our North Bend site. Its proximity to the Gulf of Mexico and the Gulf Intracoastal Waterway and the absence of any threatened or endangered species in the area made it a viable water source.

Following the required public notice, we began our engineering and construction efforts. Where safe to do so, we continued to work on the development during the pandemic. The scrubbing facilities commenced operation in FY2022. Through use of the innovative seawater SO<sub>x</sub> scrubbing system at North Bend, they are avoiding millions of pounds of gypsum going to landfill per year and reducing SO<sub>2</sub> and NO<sub>x</sub> emissions by over 95% per year.



**Our investment in seawater scrubbing facilities is representative of our commitment to innovative technologies on our drive towards circularity as we strive to not only meet compliance requirements but exceed them."**

**DALE CLARK**  
Chief Manufacturing Officer,  
Americas, Europe & Africa Birla Carbon





Our presentation and Purpose video were well received by the audience, and we hope to continue to live our Purpose and Share the Strength for a better tomorrow."

SAMAH SHAWKY  
Plant Head  
Birla Carbon Egypt

### Birla Carbon Egypt – part of the global climate change conversation at COP26

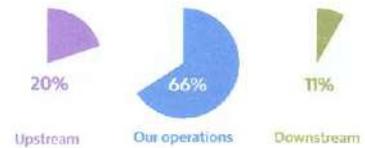
In November 2021, Birla Carbon Egypt contributed to the COP26 Climate Change Summit, hosted in Glasgow, United Kingdom. Via video screening, Samah Shawky, Plant Head at Birla Carbon Egypt, was part of a panel which showcased energy transition, water conservation and climate change mitigation success stories. She presented on the facility's progress towards carbon neutrality and discussed its energy-reduction goals.

For example, since 2015 the facility has achieved a 50% reduction in NO<sub>x</sub> emissions, and since 2016 a 50% reduction in SO<sub>x</sub> emissions. The plant has also decreased its CO<sub>2</sub> emissions by over 90%. Relating to water conservation, better recycling of waste water and increased retention of captive water resulted in a 60% reduction in the plant's municipal water withdrawal. This demonstrable progress solidified Birla Carbon Egypt as a valued part of the global climate change conversation.



## Measuring our carbon footprint

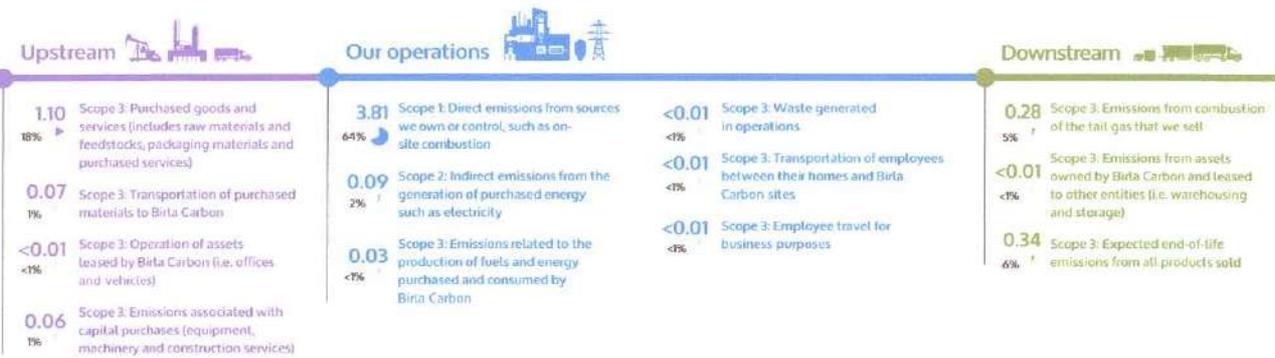
Our approach to carbon stewardship extends throughout our entire value chain, from raw material extraction to manufacturing, product delivery and product end-of-life. Across each of the following points we look to monitor and reduce our carbon footprint.



### Our GHG emissions across our value chain

Million tonnes of carbon dioxide equivalent (CO<sub>2</sub>-eq), in FY2022

Progress towards our net zero commitment (see page 45) is measured against our 2022 greenhouse gas (GHG) emissions (developed in accordance with global standards).



Figures have been rounded

### Our emission scopes

Our Scope 1 and 2 emissions have been prepared in accordance with the GHG Protocol Corporate Standard and third-party validated. In FY22, all Scope 3 category emissions were calculated following the [Corporate Value Chain Scope 3 Accounting and Reporting Standard](#) and utilizing the Quantis tool.

Based on the results of the Scope 3 accounting we determined that Purchased goods and services; Fuel- and energy-related activities; and End-of-life treatment of sold products were our highest-contributing Scope 3 categories and would be subject to a more detailed assessment. We created an environmental impact inventory for these categories using a combination of spend- and unit-based primary data.

We excluded Processing of sold products, Use of sold products, Downstream transportation and distribution, and Franchises emissions from our final inventory. Downstream transportation and distribution emissions are captured under other Scope 3 categories, and Birla Carbon does not own any franchises.

Emissions associated with the use of sold tailgas will be included, but emissions from the use of carbon black will not. This is allowed per the GHG protocol, and we are choosing to exclude processing of sold product and use of carbon black emissions due to the diversity of end products that carbon black goes into and the lack of information regarding their processing.



**Did you know?**  
The largest primary particles of carbon black are 1,000 times thinner than a human hair.

## Reducing our GHG emissions

### We aim to reach net zero GHG emissions by 2050

Following a natural progression in our circularity and LCA approach, we are pledging to lower our carbon emissions to net zero by 2050. This is a first for the industry, as we work to fulfil our vision of becoming the most respected, sustainable and dynamic global carbon black business.

### Developing emissions-reduction targets

In FY2022, we developed a comprehensive Scope 3 GHG inventory and underwent third-party validation of our Scope 1 and 2 GHG emissions. It is our intention that these inventories represent the baseline for new near-term targets as we progress to net zero by 2050.

We are working with partners to model these Scope 1, 2 and 3 targets in alignment with Science Based Targets initiative (SBTi) guidelines. These goals will be informed by upcoming decarbonization target guidance for chemical companies published by the SBTi.

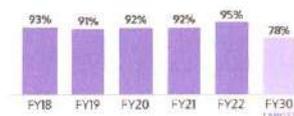
Our 4Rs roadmap (see graphic on next page) has been developed to support our emissions reduction. In an unusual challenge, Scope 1 is

our largest source of emissions; this is reflected in the non-linear decrease projected by our roadmap. Reducing these emissions will take time as we invest and innovate to overcome the [challenges](#) of our industry.

### Our target

**TARGET:**  
Reduce our direct CO<sub>2</sub> emissions intensity by more than 22% against the 2005 baseline.

**STATUS: BEHIND SCHEDULE**  
This year we saw an increase in our absolute emissions due to increased production as we recovered from the pandemic. Our CO<sub>2</sub> emissions were also negatively impacted by limited access to higher-quality oils.



### Our direct emissions

Direct CO<sub>2</sub> emissions from our carbon black manufacturing account for the majority of our emissions. That is because we primarily use fossil-fuel-based feedstocks that are transformed into carbon black. The more carbon we capture out of the feedstock, the more we can put into carbon black, and the less we emit as CO<sub>2</sub>. While it is impossible to convert all the carbon in our feedstock to carbon black, we focus on optimizing efficiency, grade mix and feedstock quality to improve our direct emissions.

[Our Carbon Footprint Statement](#)

[Continuum™ Carbon Footprint Statement](#)

### Taking steps to reduce our CO<sub>2</sub> emissions at Patalganga

Each of our sites is on its own path to sustainability. To help them along, we are establishing teams through our Sustainable Operational Excellence (SOE) program, focusing efforts on our sites which have the most room for improvement.

One site identified as such was our factory in Patalganga, India, where several opportunities were noted for improving CO<sub>2</sub> emissions performance. To address this, a cross-functional, global team consisting of employees from Engineering, IT, Plant Operations and the Regional Technology Manager group was created. Performing gap analysis, data collection, evaluation and testing, the team produced an action plan for the site with 16 areas for improvement and 55 actions.

The team remained on-site for the first two weeks, following which they performed weekly calls and week-long visits on a monthly basis. Through a range of actions such as faster data analytics and equipment upgrades, the site achieved a 6% reduction in CO<sub>2</sub> emission intensity in the past three years.

### How we will achieve net zero GHG emissions

Achieving net zero GHG emissions requires industry collaboration, so we are engaging experts and creating long-term partnerships to reach our goal. We understand that our customers value sustainability, therefore we are pledging to bring down our emissions alongside many of our suppliers.

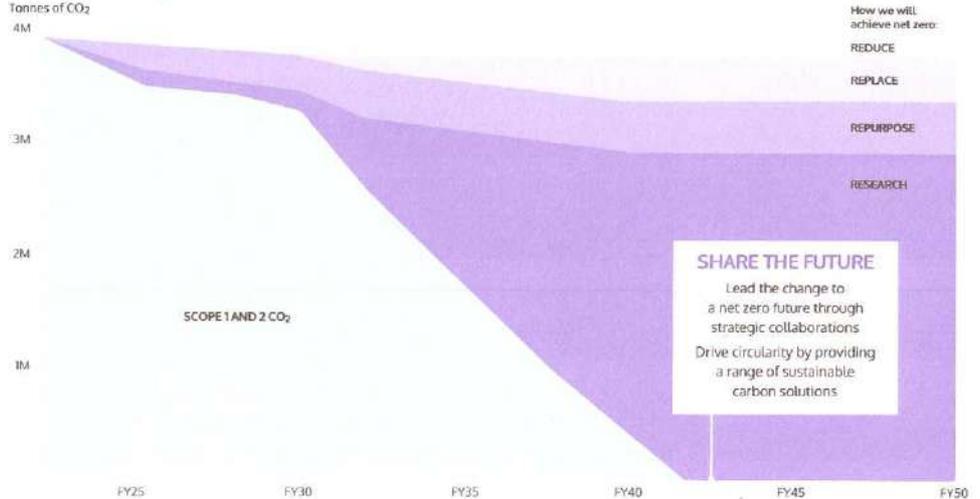
#### Our net zero GHG emissions strategy

Our strategy for reducing our GHG emissions to achieve net zero remains anchored by the 4Rs: Research, Reduce, Replace and Repurpose. Targeting a reduction in emissions over the coming decades, we will be decarbonizing our business and decoupling our emissions from our production levels.

Most of our carbon footprint reductions will come from our investments in advanced technologies to upgrade our sites. These will target carbon capture and conversion, increasing use of bio-based feedstocks and advancing the production of more circular products. We'll maintain our focus on lowering the direct and indirect emissions linked to our carbon conversion from feedstock and energy procurement processes.

A smaller portion will come from the indirect impacts of our entire supply chain (Scope 3), which will require working with external partners – for example our suppliers – to reduce their emissions.

### Our net zero roadmap



**PURPOSE**  
Share the Strength

**VISION**  
To be the most respected, sustainable and dynamic carbon black business

**RESEARCH**  
to discover new ways for the capture and conversion of carbon

**REPURPOSE**  
materials for increased value by circularity

**REPLACE**  
with alternative energy and feedstock

**REDUCE**  
dependence on traditional manufacturing processes

### Research – capturing and converting carbons

Carbon dioxide capture and conversion will be the primary lever we will utilize to achieve net zero. This is suited to our existing strengths in creating carbonaceous materials and the challenges that hard-to-abate industries like ours face. Challenges for decarbonizing our business include thermodynamic and chemical limits to efficiency improvements and the limited reduction potential that low-carbon energy inputs (i.e. renewables) have for our business. Scope 2 emissions from purchased energy only account for 2% of our overall emissions.



2 FY2021 results were impacted significantly by the COVID-19 pandemic.

In FY2022, we started mapping and evaluating technologies and partners within the carbon capture and conversion space and assessed the technological and commercial viability of the partnerships for our business. We are in the process of establishing some formal partnerships both within Aditya Birla Group (ABG) and external to Birla Carbon to further our investigation and testing of some of the carbon capture and conversion technologies, while exploring new and emerging technologies in this area.

### Reduce – traditional processes

We will continue to focus on optimizing processes for converting carbon to carbon black, and to prioritize energy efficiencies throughout our operations.

#### Net energy positive

Efficient energy use and recovery is critical to our business. We have been tracking energy conversion efficiency since FY2015, with the aim of increasing absolute efficiency to 80% by FY2030. This means that for every 100 carbon units introduced to our facilities, a minimum of 80 would be converted either to carbon black or to a useful form of energy.

Since establishing our energy conversion KPI, we now recover more energy from our own facilities and consume less energy per tonne of carbon black produced. Much of this energy is used in our manufacturing process, while any surplus is sold to neighboring facilities and local grids.

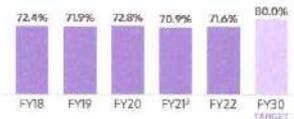
Regional Energy Managers lead these efforts and share their knowledge across the rest of the business through our World-Class Manufacturing group. Our Energy and Carbon Policy sets out our commitments to outperform regulations by reducing our energy intensity and carbon footprint.

- Energy and Carbon Policy
- World-Class Manufacturing Group

### Progress towards our target

**TARGET:**  
Increase our absolute energy conversion efficiency to 80% (total output energy (CO<sub>2</sub>-eq)/total input energy (CO<sub>2</sub>-eq))

**STATUS: ON TRACK**  
We improved our energy conversion efficiency in FY2022 as compared to FY2021 as a result of our focus on operational excellence and equipment upgrades. Much of the efficiency losses since FY2020 can be attributed to the addition of high-energy-consuming equipment for air emission controls.





**Harnessing natural resources at Birla Carbon Hungary**

Manufacturing carbon black involves intensively heating hydrocarbon fuels and collecting unburned carbon. In the process high-temperature smoke is emitted, which needs to be cooled down before it enters the bag collector.

Birla Carbon Hungary installed a heat-recovery system, which replaces the conventional method where the smoke would be cooled

down by spraying water in the smoke stream. Aiming to reduce environmental impact, in 2021 Birla Carbon Hungary installed a heat-recovery boiler in two of their production lines. This system produces 70,000 MT/year of extra steam, which can be used for electricity production, generating 9,500 MWh/year. The heat-recovery method also reduces water requirements by 26,000 m<sup>3</sup>/year.



**Designing for sustainability at Gummidipoondi**

At our Gummidipoondi site in India, we have incorporated a range of energy-efficiency and water-conservation measures into the design of a new production line. To reduce energy consumption, we adopted a regenerative design approach, using low-grade extraction for feed water heating and reducing steam consumption in the deaerator. By upgrading the co-generation system, we produce an additional 1.7 MW of electricity from our process tail gas, displacing the electricity coming from the public grid.

As Gummidipoondi is located in an area of water stress, we use an air-cooled condenser, reducing the amount of water needed to convert steam to condensate. The system was also designed to enable zero liquid discharge.

**Co-generation at Birla Carbon Italy**

We commissioned a new electricity turbine at our Birla Carbon Italy (BCI) plant in Trecate at the end of FY2021, aimed at reducing fossil fuel consumption. The production unit is now able to use steam emitted from the boiler more efficiently; turbine efficiency has improved, increasing electricity production from 360 to 650 kWh/tonne of carbon black. This is a huge step forward, demonstrating how BCI is progressing with sustainability in mind.

Installation of new, more efficient technologies means that BCI is now net energy positive, producing additional electricity which it can export to the national grid. As well as offsetting Italy's national grid demand, BCI upgrades will have national benefits in the form of reduced overall CO<sub>2</sub> emissions.

**Replace – energy and feedstock**

We will replace our current energy and feedstock with low-carbon solutions.

We will focus on adding more renewable energy solutions and shifting a portion of our production to alternative feedstocks derived from biomass. We are constantly seeking and evaluating alternative fuels for heating our reactors and to serve as feedstock for producing carbon black or other carbonaceous materials.

**Repurpose – materials**

We will repurpose materials through a circular approach.

**The circularity of Continua™ SCM**

Our product-based research is focused on end-of-life innovation, striving to increase longevity and to understand how we can better support customers to repurpose carbon black.

According to ISO 14040 and ISO 14044, the LCA of our Continua™ SCM shows a significantly reduced carbon footprint when compared to our traditional furnace carbon black products. It will also contribute to a value chain with a net negative carbon footprint, as it captures 0.73 tonnes of CO<sub>2</sub> for every tonne produced.

Once Circled's new plant is at full capacity, over 228,000 tonnes of direct and indirect CO<sub>2</sub> emissions will be eliminated annually when compared to our conventional carbon black process. Over the next five years, by putting millions of tires through the pyrolysis recycling process, we will introduce over 70,000 tonnes of SCMs to the market annually.

Through creating more circular products that align technological expertise and customized solutions, like Continua™ SCM, we enable our customers to develop the next generation of sustainable products.

**The circularity of carbon black**

**Polymer-based packaging**

This may appear to be counterintuitive, but a large proportion of our European customers can feed polymer-based packaging directly into their products, therefore reducing the overall amount of waste generated. Adopting this collaborative approach aims to change traditional approaches to the carbon black life cycle by improving product recyclability.

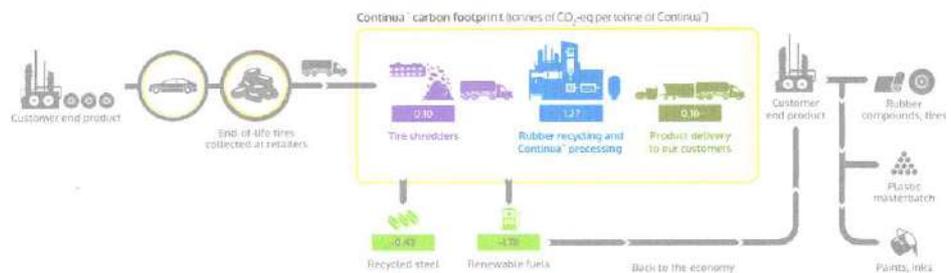
**Did you know?**

We are reducing our environmental impact by capturing 0.73 tonnes of CO<sub>2</sub> for every tonne of Continua™ SCM produced.

**Crowdsourcing net zero innovation ideas**

We have been using our Hype platform to source innovative ideas for our net zero roadmap from our employees. The platform has proved a successful engagement tool, having received over 40 decarbonization ideas, many of which are now in the project development or implementation phase. These ideas ranged from creative ways to install renewable energy sources at our sites through building partnerships for CO<sub>2</sub> utilization to the role of diversity and inclusion in decarbonization efforts.

**From creation to CONTINUA**



# Water

Effective water stewardship is a key priority, especially in locations where this vital resource is scarce or where it is predicted to become scarce.

## Assessing our water vulnerability

We partnered with the [World Business Council for Sustainable Development](#) and the [World Resources Institute \(WRI\)](#) in 2016 to assess the water stress level at each of our manufacturing sites using the WRI's [Aqueduct tool](#). For our plants based in India, we complemented the assessment using the [India Water Tool](#). This approach provided us with an informative, high-level and generic assessment for all our sites.

Using the results of our assessments, we have determined which sites are at a medium or high risk for water availability to include in our Water Withdrawal KPI.<sup>3</sup>

### Governance

## Our water risk management approach

Our Strategy considers short-, medium- and long-term scenarios to identify areas of improvement within our water cycle. We want to develop a more circular approach in this area and are constantly looking for ways we can reuse the water we withdraw.

Our [Water Stewardship Policy](#) sets out our commitments to protect and conserve water resources through management practices and governance systems.

Our water risk management approach is inspired by a six-step methodology detailed in our [Water Stewardship Policy](#) and advocated by the [European Water Stewardship Standard](#), the [Alliance for Water Stewardship Standard](#) and the [ABG Technical Standard \(Water Management\)](#).

We have recently integrated our water risk management approach into our wider [Enterprise Risk Management \(ERM\)](#) strategy, while high-risk sites are now incorporating [Water Risk Mitigation Plans](#) into their existing [Business Continuity Plans](#). These mitigation plans identify both existing and additional strategies for managing critical water risks. New mitigation measures are actioned with deadlines set for completion, while existing mitigation strategies are reviewed at least annually through our ERM process.

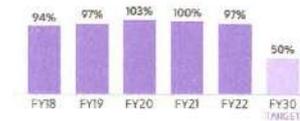


**100%** of our manufacturing locations use recycled process water and/or rainwater in their operations

## Progress towards our target

**TARGET:** Reduce our water withdrawal intensity (m<sup>3</sup>/t carbon based) by 50% versus FY2013 baseline at our high- and medium-risk sites (water withdrawal intensity by year).

**STATUS: BEHIND SCHEDULE**  
While we reduced our water withdrawal intensity in FY2022, we recognize we are still behind schedule. Much of the air-pollution-control equipment installed in recent years at several of our sites has high water demands. We consider the balance of these various environmental impacts as we design solutions for our sites.

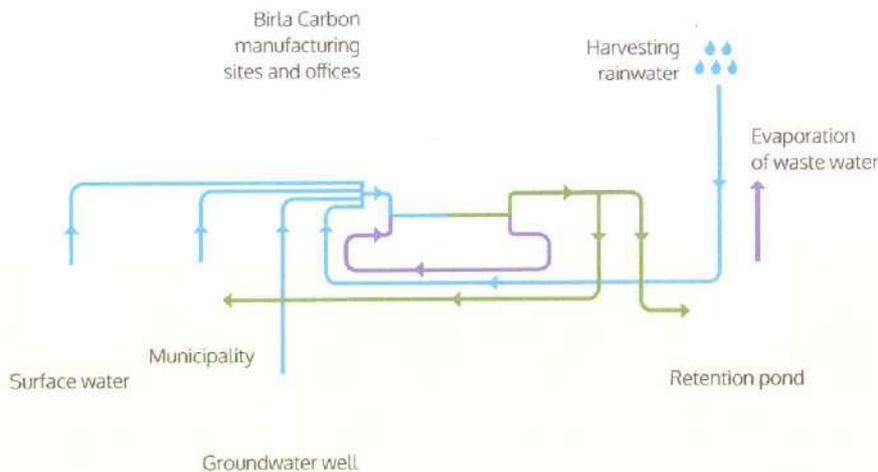


<sup>3</sup> Sites included in KPI: Hekok, Cubatio, Gunnedah, Alexandria, Werrington and BAFK.

## The water cycle at Birla Carbon sites

We try to limit our use of potable water, looking for ways to increase circularity by recycling and reusing it where feasible. Once water has been used in the manufacturing process, it is directed into retention ponds, from where it will be redirected back into other processes. Our water-conservation best practices are shared across all our locations as part of our [SOE](#) strategy.

Legend: All water (blue line), Water withdrawn from source (blue arrow), Wastewater discharge (green arrow), Recycled water (purple arrow)



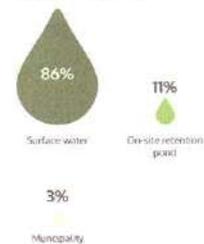
## Water withdrawal by source

FY2022  
39,252 megaliters



## Water discharge by destination

FY2022  
24,765 megaliters



<sup>4</sup> The increase in surface water withdrawal is due to the demand from the new flue gas desulfurization system at North Bend. The entire volume of water passes through the treatment system and is returned to the Gulf Intracoastal Waterway with the exception of any minor evaporation losses.

## Waste

In any industry, effective waste management and minimization should be a priority; carbon black is no exception. Although the quantity is relatively small, we generate waste at all stages of our industrial process, and we are implementing strategies to increase the circularity of our operations.

### Our approach to managing our waste

Our strategy aims to reduce the amount of waste we generate and ensure that what we do produce is reused or recycled – whether for the same purpose or for a secondary use. Our sites comply with all applicable HSE requirements, and we ensure waste materials are sent for disposal in the most sustainable manner.

We have fully implemented our Waste Management Standard (the Standard), which outlines internal requirements for the proper accounting, handling, transfer, storage, transportation and disposal of solid and hazardous wastes generated during construction of and operation at our facilities.

### Progress towards our target

**TARGET:** 75% waste repurposed, including recycling, reuse and recovery, by 2030

**STATUS: ON TRACK**  
Recent stronger focus on waste management in our facilities globally, including composting of gypsum at our plant in Thailand and recycling of scrap material in all our plants, accounts for the marked increase in progress seen since FY20.



The Standard specifies roles and responsibilities for the management of solid and hazardous waste at our facilities to protect both people and the environment. It also encourages sites to consider new and updated waste-minimization options on an annual basis. Our waste management approach continues to evolve as we improve identification and accounting of our waste.

Achieving this waste-reduction target presents a significant challenge. We expect the repurposing of gypsum to make a significant contribution to our performance, but there are currently limited outlets available for doing so in some locations. We are exploring solutions to this challenge with our ABG peers.

### Reprocessing off-grade and unused carbon black

When we produce off-grade carbon black, rather than disposing of it, we segregate it and put it through the manufacturing process again until we have a product that meets our stringent quality standards. As carbon black has a long shelf life, customers are also able to return unused carbon black to us so it can be reprocessed. This way, not only are we reducing the waste that we generate but we are also taking steps to close the loop on our production.



**75%** waste repurposed, including recycling, reuse and recovery, by 2030

### Did you know?

Our new waste Standard was implemented in 2018 to drive best practice across our manufacturing sites.



### Our bulk transportation system in Gummidipoondi, India

In July 2021, we expanded upon our bulk transportation system in Gummidipoondi, India. Dependent on grade, we can save 16–17 plastic jumbo bags (containing 18–20MT of carbon black) per bulk truck dispatch. In FY2022, we exclusively dispatched 394 trucks using the bulker to Apollo Tyres. This equates to a total plastic saving of 26.8 MT.



Apollo Tyres has agreed to work together on bulk transportation for the greenfield project at its Andhra Pradesh plant. We are also promoting this transportation system with other customers buying from Gummidipoondi to reduce plastic packaging. This is the first successful implementation of our bulk transportation system in India, and it's thanks to the sharing of the concept from our plant in Hungary.

### Reduce waste in our facilities

The canteen in our Trecate, Italy facility is taking a range of steps to drive progress towards sending zero waste to landfill. In a bid to reduce food waste, team members collect leftover bread from the facility and deliver it to a local kitchen, where it is used to make free meals for people in need.

The efforts of the Italian facility do not stop at reducing food waste. Converting from single-use plastics, all plates in the canteen are now made from cellulose pulp and are fully compostable at end of use. Single-use cups are also made from compostable materials. The polylactic acid polymer used is derived from plants such as corn, wheat or beets and can be broken down in industrial composting facilities once it has been used. To encourage employees to participate in these efforts and

to take responsibility for their own plastic consumption, more bins have been placed in office areas to separate plastic from other waste so it can be recycled.

In our Gummidipoondi, India plant, composting of canteen food waste has been standard practice since 2016. This compost is then used in the plant's organic vegetable garden. Each month approximately 25 kg of food waste is composted through this initiative. In Patalganga, India, employees are made aware of the amount of food they are disposing of with signs, updated on a daily basis with the quantity of waste thrown away that day. Any food waste is converted into composite fertilizer – currently around one tonne every year.

[Sustainable Development Goals](#)



## Air emissions

Our manufacturing processes generate air emissions, and it is our responsibility to ensure these emissions are as low as they can be. Our commitment to SOE guides our approach to emissions reductions, encouraging us to continually search for the best possible processes and technologies.

We monitor our air emissions to ensure compliance with local regulations wherever we operate. We have policies and procedures in place that enable us to notify the local authorities and, when required, to act as soon as possible should specific limits be exceeded.

### Investing in technology

We continue to invest in and promote technological improvements, such as state-of-the-art filter materials, which ensure maximum containment and recovery of carbon black dust. In addition, we're evaluating the technologies and assessing how they can be implemented across our operations. A balanced approach is key: technologies for air emission control can have high water and energy requirements, so implementation must be considered in a holistic way and on a case-by-case basis.

In December 2017, we entered into a consent decree with the US EPA to further reduce emissions of NO<sub>x</sub>, SO<sub>2</sub> and particulate matter (PM) from our plants in Franklin, Louisiana and Hickok, Kansas.

At our Kansas facility, we commissioned a control system, which has been running since June 2021. The system uses staged combustion technology alongside strict feedstock controls to ensure the site continues to sustainably provide high-quality carbon black products. Initial testing of the installation indicates that we have effectively reduced our NO<sub>x</sub> emissions by our goal of 30% versus the baseline. A boiler was also installed to utilize the combustion heat from this new technology, providing the plant's steam requirements without the need for any supplemental fuel.

The Louisiana facility has state-of-the-art control systems installed and operational as of December 2021. This technology is the first of its kind, to the best of our knowledge, in the United States. It combines low-NO<sub>x</sub> combustion technology, selective catalytic reduction technology and a seawater scrubbing system that will minimize the environmental impact of the control systems.

The technology utilizes the brackish water in the Gulf Intracoastal Waterway to reduce sulfur components to salts that are naturally found in oceans. Through this technology, Birla Carbon has eliminated the transportation and disposal issues associated with traditional wet limestone scrubber systems, which generate a gypsum-like waste.

### De-NO<sub>x</sub> system at Birla Carbon Korea

Our sites continue to invest in new equipment to reduce their emissions. In FY2022, Birla Carbon Korea (BCK) installed a de-NO<sub>x</sub> system to reduce the NO<sub>x</sub> levels in the flue gas coming from their dryers. A selective catalytic reduction (SCR) system was selected for installation with the ability to reduce NO<sub>x</sub> levels to less than 90 parts per million. Following installation of the SCR, BCK demonstrated an 80% reduction in NO<sub>x</sub> levels.

The site also installed a telemonitoring system (TMS) to drive further reductions in NO<sub>x</sub> and SO<sub>2</sub>. The TMS helped BCK optimize processes that can influence NO<sub>x</sub> and SO<sub>2</sub> concentrations such as feedstock feed rate and spray; water levels; valve opening/closing; and system-purge techniques.





Date: 22<sup>nd</sup> June 2023

To:  
Mr. R. D. Patil,  
Scientist, Central Pollution Control Board,  
Vibhuti Khand, Gomti Nagar, Lucknow,  
Uttar Pradesh, Pin: 226010

**Reference:** The order, dated 18.05.2023, of Honorable Principal Bench, NGT, New Delhi against the original application no. 336/2023.

**Subject:** Brief note on the applicant Mr. Pankaj Srivastava.

Respected Sir,

Mr. Pankaj Srivastava was our employee. He joined Birla Carbon on 24<sup>th</sup> September 1988 as Process Engineer. He worked in production department for around 10 years. Thereafter, he worked in Technical Cell for about 8 years. Ultimately, he moved to Safety, Health & Environment department in the year 2006. He was head of Safety, Health & Environment department until September 2020.

In September'20, he applied for early retirement (**Annexure I**). His application, early retirement, was accepted and he was released from the services of the company. The applicant again requested to employ him for one year sighting his family situation and his father's health. The Company sympathetically considered his application and accepted his request and engaged him again as retainer for one year (**Annexure II**) starting from 1<sup>st</sup> October, 2020 to 30<sup>th</sup> October, 2021.

After completion of one year, the employee again requested for employment with the company for next three years. He send a request mail on 31<sup>st</sup> July, 2021 to our Business Head with Cc to HR team & Unit Head (**Annexure III**). His request was not accepted and finally, he was separated from the company from 1<sup>st</sup> August 2021 onwards.

**Even after working for 33 years in the company and grown from the level of Trainee Engineer to Assistant General Manager (HSE), he wanted undue favours from the company. He was threatening the company to engage him again for three years, else he will create troubles for the company. The company refused to bow down against Mr. Pradeep Srivastava and ended his services with the company as per the terms & conditions of his retainer-ship letter (Annexure II).**

Birla Carbon India Private Limited  
(Formerly known as SKI Carbon Black (India) Private Limited)  
Unit : Renukoot

Murdhwa Indl. Area, P.O. Renukoot, Dist. Sonbhadra - 231 217, U.P., India

T : +91 5446 252388 - 91 / 255020 | F : +91 5446 252387 | W : www.birlacarbon.com | CIN : U23201MH2013PTC241741



To take revenge from the company, he made false allegations related to Environment non-compliance to the Hon. NGT. The non-compliances given in his application were for the month of June'21 & July'21, just before his separation from the company. He misrepresented the facts to create false case against the company. It is to be noted that he headed EHS department for 15 years, which includes responsibility for Environmental compliances.

it is our humble request to consider above facts while deciding in the matter.

Yours faithfully  
For, Birla Carbon India Pvt. Ltd,  
Unit-Renukoot

Varun Sabarwal  
Unit Head

Encl.: As mentioned above

Cc:

1. Mr. R. D. Patil, Scientist, Central Pollution Control Board, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh, Pin: 226010.
2. Regional Officer, Uttar Pradesh Pollution Control Board, H. No. 162, Uttar Mahal, Roberstgunj, Dist. Sonbhadra, UP, Pin: 231216.

Birla Carbon India Private Limited  
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T : +91 5446 252388 - 91 / 255020 | F : +91 5446 252387 | W : www.birlacarbon.com | CIN : U23201MH2013PTC241741

12<sup>th</sup> September 2020

To,

The Unit Head  
Birla Carbon India Pvt Ltd.  
UPSIDC industrial Area, Murdhwa  
Renukoot, Sonbhadra, UP

*[Signature]*  
14/09/20

Through Unit HR Head

*[Signature]*  
12.9.2020  
may be  
14/09/20

Sub. Early Retirement -VRS

Dear Sir,

I would like to inform you, that due to my family commitments, I would like to opt early retirement.

You are requested to relieve me from the services from 12<sup>th</sup> September 2020.

Sincerely,

*Pankaj Srivastava*  
(Pankaj Srivastava)  
E.Code :- 007675  
Department : Safety



Ref. No. RET- RHR/02/2020

September 29, 2020

To  
Mr. Pankaj Srivastava  
Sonebhadra,  
Renukoot

Sub –Full time retainer-ship

Dear Mr. Pankaj Srivastava,

We are pleased to extend you the offer for full time retainer-ship for one year starting from 1<sup>st</sup> October, 2020 to 30<sup>th</sup> September, 2021.

During the retainer-ship, you will report to Mr. J. P. N. Singh – Unit Head, Birla Carbon Renukoot, and work on his specific instructions. You will keep him apprised regarding progress, while working efficiently and diligently to the best of your ability in the interest of company.

You will be paid consolidated amount of Rs. 1,00,000/- per month (Rs. One Lakhs Per Month) as a retainer-ship charge, (subject to applicable statutory deductions such as TDS). You will also be provided company accommodation.

You will be entitled to avail Leave as per the applicable guidelines during your retainer-ship subject to prior approval of your Manager.

During the retainer-ship period you will not work directly or indirectly for any other person, or company whether with or without remuneration nor engage yourself in any kind of trade or business.

You will maintain the confidentiality of the information and knowledge regarding our business and will not divulge to any person, firm or company.

During the retainer-ship, if at any point of time, you are found guilty of any misconduct or wilful breach or neglect of the terms of this agreement, the company will terminate the retainer-ship without any prior notice or payment in lieu of.

This contract may be terminated with one-month advance notice from either side in writing.

We request you to kindly return the duplicate copy of this letter duly signed as a token of your acceptance.

We look forward to your fruitful engagement with the organization.

Thanking you,

(Shishir Misra)  
SVP & Head HR – Asia  
Birla Carbon

**From:** Pankaj Srivastava <pankajsrv25@gmail.com>  
**Sent:** Saturday, July 31, 2021 10:07 PM  
**To:** Santrupt Misra  
**Cc:** Fedrigon, Tim; shishir misra; Ravindra Raghuvanshi; jay.kokate  
**Subject:** Thank you - Birla Carbon leadership  
**Attachments:** Resume PS.docx

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Respected Sir,

I still remember your BCR visit and positive interactions you had with me and with the BCR Team. I thank you for your visit and inspired leadership.

Today is my last day at Birla Carbon Renukoot as my contract is ending today. I have worked with ABG & BCR Unit for more than 32 years. I feel privileged and proud that I have worked with esteemed & world class organisation like ABG.

I was put on contract considering Unit HSE requirements post my severance last year. My severance was painful for me, however the team here took my maximum care by extending all the support they can.

I got support from unit team in various ways such as:

- Support on taking care of my old ailing father who is bed ridden for last few years.
- Extended stay in colony and arrange for critical items in the pandemic situation including grocery/medicines.
- Regular sanitization in and around the house to avoid any Covid risk.
- Counselling help
- Taking care of father's hospitalization wherever needed

I thank our Unit Head, Mr. Ravindra Raghuvanshi, Unit HR Team and Mr. Shishir Misra for supporting me emotionally & socially. Mr. Shishir Misra guided me and helped me in many ways which I will never forget. He also assured me that he will try his level best to create other options for me.

I am a chemical engineer with 33 years of experience in the carbon black industry. I have exposure in various departments such as Production, Technical Cell, Safety & Environment. My current age is 57 years and I am physically fit and can work for the next three years enthusiastically. My resume is attached herewith for your reference.

It is my humble request if you can engage me suitably within ABG.

Thank you again, respected Sir.

Regards,

Pankaj Srivastava

Email ID: [pankajsrv25@gmail.com](mailto:pankajsrv25@gmail.com)

Mobile: 9453986009

## RESUME

**Name :** Pankaj Srivastava  
**Address :** C-12, Birla Carbon Colony,  
 Murdha Industrial Area  
 Renukoot-231217, (Dist. Sonbhadra), U.P.  
**Date of Birth :** 25 June 1964  
**Sex :** Male  
**Cell :** +91-9453986009  
**E-mail :** pankajsv25@gmail.com

### Qualification :

**High School/Intermediate – First Division**

**B. Tech in Chemical Engineering from HBTI Kanpur – First Division**

**Post Diploma in Industrial Safety from RLI Kanpur – First Division**

### Brief Overview

- A professional, with very rare combination of, Excellent Hands-on experience in the field of Production/Quality Control, Project Management and SHE Management
- Working at Birla Carbon Renukoot, having ISO/TS16949, OHSAS-18001, ISO14001, Certifications and largest Carbon Black producer in the World, with 15 Carbon Plants in 12 Countries
- In nutshell, an ideal candidate groomed with all the required Global safety system based tools & practical shop floor experiences suited ideally for Plant Operation/SHE Management in Industry.
- Implemented following Global safety system standards successfully at Plant, resulted zero Fatal/major accident in last 5 Years in the Plant.
- Fall Protection, Confined space entry, Electrical safety, Control of Hazardous energy, Line breaking/Equipment opening, Hot work, Respiratory protection, Machine Guarding, Chemical Hazard communication, Mobile Equipment, Contractor management, Compressed gas safety etc.

### Experience :

- 15 Years in the field of Safety, Health & Environment, as AGM Safety/Head EHS, at Birla Carbon Renukoot, (from Yr. 2006 till July 2021)
  - 8 Years in the field of Project Management, As Senior Manager at Birla Carbon Renukoot (from Yr.1998 till 2006)
  - 10 Years in the field of Carbon black Production/Quality Control, as Asstt. Manager Production, Birla Carbon, Renukoot (from Yr.1988 till 1998)
- Total Experience : 33 Years

### **Profile:**

- A confident, self motivated & proactive chemical engineer with Post diploma in Industrial Safety with a proven track record in the field of Manufacturing and SHE Management .

- A strong Customer focused attitude with an open mind, always look for new challenges, and deliver results.
- Apart from a keen interest in all matters related to business, also possess strong analytical and Motivational skills.
- Actively involved in training program for improving safety awareness among Employees, and contract workmen.
- Interacting and coordinating with Birla Carbon Corporate situated at Marietta, USA for implementing Global Safety standards being followed across Globe (16 Birla Carbon Plants in 12 Countries) in the field of SHE

### **Roles and Responsibility :**

- Planning, Organizing, coordinating and facilitating implementation of Safety Global standards/best practices, to provide safe and healthy work environment
- Formulate and implement various safety systems, identify Hazards at workplace, monitor Permit to Work system/PPE
- Safety training to employees, contract workmen, specific work place related training on specific Hazard control
- Accident/incidence investigation, root cause analysis, preparation of Action Plan, facilitation for implementation and report preparation for sending to concerned Govt, Authorities as per legal requirement
- Compliance of statutory requirements related with Safety, Health and Environment
- Compliance of ISOTS 16949, OHSAS-18001 & ISO 14001 system requirements
- Coordinate with Plant Engineering departments to ensure that the Employee and Contract Workmen follow SOP related to SHE
- To Plan, control and monitor, improvement projects for achieving high productivity, better product quality at optimum cost to achieve technical advancement
- Organize, monitor & review units overall performance with respect to Production, Quality, Cost, delivery, Safety and review performance of the same on daily basis in line with Business Goals, objectives as per annual target

### **Key Skills :**

#### **Skills for Production/Quality Control :**

- Smooth operation of plant (Carbon Black Manufacturing) with Active interface & coordination with various maintenance departments for preventive and corrective maintenance.
- Production management with state of art technology (DCS YOKOGAWA CENTAM CS3000 & PLC) and troubleshooting, with Manpower Planning & handling
- Heading the shift team
- Production supervision and troubleshooting
- Meeting quality standards norms
- Process parameters & raw material consumption monitoring
- Preparation of Management Information Report

#### **Skills for Project related jobs :**

- Scheme preparation, P&I and layout drawing finalization, estimation of savings and Presentation for Block sanction required with ROI
- Planning for Project execution, Concept formulation, monitoring, evaluation & follow up for new projects and saving schemes.

- Analysis of data to arrive at corrective & preventive actions for technical problems referred to Technical Cell.
- Efficiency study of various plant machinery & equipment

#### **Skills for SHE Management :**

- Risk assessment and control
- Hazard identification and control
- Environment Aspect, impact and control
- System of adherence to SHE Policy and system for warning Letter/Punishment on Safety Violation
- Emergency Planning, preparedness and control
- Employee and Contract workmen motivation and awareness on SHE
- Safety behavioral improvement/Safety contact system
- Safety inspection, Safety Audit
- Visitor's Safety and access control
- Safe Vehicle movement inside Plant
- System of SOP, Permit to work, MSDS, LOTO, use of PPE etc

#### **Equipment / Processes Handled**

- All types of Blowers with positive as well as negative pressures
- Large horizontal tubular reactor for oil cracking and quenching
- Recuperators (800 °C) for heat transfer between gas and air
- Heat exchangers (250 °C) for oil and gas
- Waste heat recovery boilers of 20-kg/cm<sup>2</sup> pressure and 20 ton/hr steam generation
- Large Bag Filters, Cyclones and Pelletizers
- Oil handling and storage systems.
  - Operation of gas, liquid and solid handling system
  - Operation of following DCS systems:
    - 1) RS-3 from Fischer Rosemount, Germany
    - 2) Micro-XL and CS-3000 from Yokogawa, Japan

#### **Achievements:**

- Global Safety system implementation at Plant. No Major or Fatal accident in last 5 Years.
- Successful new Safety standard implementation in the Plant, in the field of Visitor Safety, Safe Vehicle movement inside Plant, Visitor access control, Offsite safety at Road, Machine 360 deg. Guarding, Flange Guarding, Hazard identification and control, Behavioral Safety, Permit to Work, Motivation and Safety awareness for Employee, Contract Worker and use of PPE
- 100% safety and Environment legal compliance at Enablon legal system compliance site
- Successful Planning, erection & commissioning of 45 kg high-pressure steam line, waste recovery Boiler & 2.0 Kilometer Oil transfer line.
- WHRB inlet cone modification for increase in steam generation, saving Rs 63 lacs/annum
- Installation of above Ground Fire Hydrant System of 2 Kilometer length at entire Plant for replacing existing underground Fire Hydrant Pipe line

- Successful installation and commissioning of zero water wastage treatment plant of capacity 400 KL/Day, for purification of highly contaminated water and reuse in process. Appreciated by both management and state pollution control board. Achieving zero discharge status for our unit.
- Successful installation and commissioning of Sewage treatment plant (STP) of capacity 250 KL/Day, for purification Sewage water and reuse in process.
- Construction of Hazardous Waste collection area with separate Bins, having impervious surface, shade as per Hazardous waste Rule

.....

Item No. 02

Court No. 1

**BEFORE THE NATIONAL GREEN TRIBUNAL  
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 336/2023

Pankaj Srivastava

Applicant

Versus

Birla Carbon India Private Limited

Respondent

Date of hearing: 18.05.2023

**CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON  
HON'BLE MR. JUSTICE SUDHIR AGARWAL, JUDICIAL MEMBER  
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**

**ORDER**

1. Grievance in this application is against violation of environmental norms by M/s Birla Carbon Renukoot Plant in District Sonbhadra, Uttar Pradesh. It is stated that the said unit is discharging untreated black water in a drain connected to Renu river which is further connected to Sone River, in violation of Water (Prevention and Control of Pollution) Act, 1974. UP State PCB issued show cause notice dated 24.03.2021 proposing to close the unit for the said violations and to levy environmental compensation at the rate of Rs. 30,000 per day. However, even after two years, neither the UP State PCB has closed the unit nor recovered compensation, nor the unit has stopped the violations.

2. Considering the above, we direct the State PCB to take further steps in the matter and finalize pending action within one month and file an action taken report. The unit may take necessary preventive and remedial measures and is at liberty to file response, if any before this Tribunal. We

also constitute a joint Committee of CPCB, State PCB sand District Magistrate, Sonbhadra to ascertain the factual position and furnish a factual and action taken report within one month by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/ OCR Support PDF and not in the form of Image PDF.

List for further consideration on 14.08.2023.

A copy of this order along with the copy of the complaint be forwarded to CPCB, State PCB, District Magistrate, Sonbhadra and M/s Birla Carbon Renukoot Plant, District Sonbhadra, Uttar Pradesh by e-mail for compliance.

Adarsh Kumar Goel, CP

Sudhir Agarwal, JM

Dr. A. Senthil Vel, EM

May 18, 2023  
Original Application No. 336/2023  
SN