



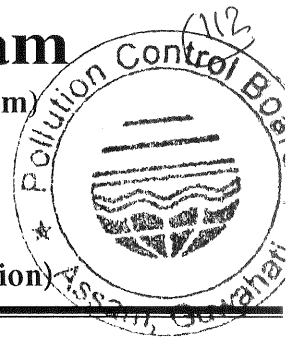
Pollution Control Board, Assam

(Department of Environment & Forests : : Government of Assam)

অসম প্রদূষণ নিয়ন্ত্রণ পৰিষদ

(অসম চৰকাৰৰ বন আৰু পৰিৱেশ বিভাগ)

(An ISO 9001:2008 & BS OHSAS 18001:2007 Certified Organisation)



No. WB/BONG/T-21/09-10/112

To,

M/s. Carbon Resources (P) Ltd.
Village – Kukurmari
Dhaligaon – 783389
Dist.: Chirang (Assam)

Dated Guwahati the, 24th May, 2016

Sub: Direction under Section 31 A of Air (Prevention & Control of Pollution) Act, 1981 as amended.

Ref: i) This office letter No.WB/BONG/T-21/09-10/26/2765 dtd. 29th February, 2016.

ii) Your letter dtd 15th March, 2016.

iii) CPCB letter no. NEZO/319(PCU)/2016-17/94 dtd 11th May, 2016.

Whereas, Govt. of India has notified the standards for discharge of environmental pollutants from various categories of industries under Environment (Protection) Act, 1986 and the rules framed there under; and

Whereas, Govt. of India has notified under Sub Rule (3) of Rule 5 of the Environment (Protection) Rules, 1986 vide Nos. S.O 1533 dtd 14th September, 2006 and J-11013/37/2011-IA.II(I) dtd 25th February, 2013 list of projects or activities requiring prior environmental clearance either from Central Govt. or State Govt. according to threshold limit; and

Whereas, Govt. of Assam has declared the whole State of Assam as Air Pollution Control Area under Section 19 of the Air (Prevention & Control of Pollution) Act, 1981 as amended till date vide notification No. STE.49/83/128 dtd 31st March, 1993 and it came into force with effect from 12th May, 1993; and

Whereas, M/s Carbon Resources (P) Ltd, Kukurmari, Dhaligaon-783389, District Chirang, Assam is engaged production of Calcined Petroleum Coke (CPC) using Refined Petroleum Coke as raw material with production capacity of 24,800 MT/Annum; and

Whereas, Pollution Control Board, Assam (PCBA) issued SHOW CAUSE NOTICE vide letter dated 29th February, 2016 asking you why action shall not be taken against you under Section 31(A) of Air (Prevention & Control of Pollution) Act, 1981 as amended for failure on your part to control pollution in the environment; and

Whereas, you have submitted reply against the aforesaid Notice vide your letter Dated 15th March, 2016 praying for withdrawal of Show Cause Notice served against the unit; and

Whereas, the Unit's replies vide their letter dated 15th March, 2016 were examined and found non compliance of PCBA's directives in controlling pollution from their unit; and

Whereas, Brihator Kukurmari Carbon Udyog Pratibad Committee, Dhaligaon lodged complaint on setting up the industry in a land which falls under Sixth Schedule in the Constitution of India; and

Whereas, the unit was inspected and carried out monitoring by a joint team of officials of Central Pollution Control Board (CPCB) and PCBA on April 27-28, 2016 and the following observations were made:

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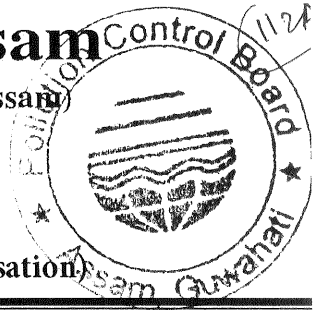
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1. The various manufacturing units of the industry, viz, Rotary, Kiln, Rotary Cooler, CPC Screener and crusher were in operation with full capacity.
2. The unit installed a Heat Exchanger to cool the hot gases emitted from Kiln, a Bag House consisting of 252 number of bags, 3(Three) dampers in the system to route the flue gases to Air Pollution Control (APC) devices.
3. The Damper-1 (Guittotine damper) which was placed between dust settling chamber connected with the Rotary Kiln and the main chimney, was totally kept open at the time of monitoring and thereby flue gases were not passed through the APC Devices.

The arrangement facilities to close the passage of the flue gases to air pollution control device and this arrangement should remain close during operation so as to pass the entire quantity of flue gases to the APC devices.

The temperature of the flue gases at the chimney was measured in the range of 451°C-461°C which reflects that the Heat Exchanger was not functioning.

4. The Damper-II which is placed between the Dust Settling Chamber and Heat Exchanger to restrict the flow of flue gases to the APC devices in case of maintenance/ repair of APC devices was closed instead of opened fully and thus allowed to bypass the flue gases to the chimney directly without any treatment.
5. The Damper-III which is placed between the Heat Exchange (HE) and the Bag House to facilitate the Bye-passing of flue gases from entering the Bag House in case of Heat Exchanger (HE) stops functioning remained close instead of opening at the time of monitoring. As such, flue gases were not even entered into the Bag Filters and released without treatment and by doing so; you are releasing emission without any treatment.
6. The Heat Exchanger was not in operation during the visit but made operational during emission monitoring. The Bag House was non-operational and thus flue gases bypassed during the monitoring.
7. The unit did not remove the Damper-II placed in the duct connecting the incineration chamber/ dust settling chamber and the APC devices and as such, no flue gas was passing through APC device and thereby, releasing pollutants beyond stipulated limits into the atmosphere.
8. The high temperature of emission observed during monitoring in the range of 451°-461°C proves by passing the flue gases to the chimney instead of designed temperature in the range 150°-200°C at the outlet of Heat Exchanger so as to feed the cooled flue gas to the Bag filter arrangement.
9. The emission monitoring carried out by both CPCB and PCBA at Rotary Kiln Stack of the unit observed release of excess particulate matter 416mg/Nm³ and 438 mg/Nm³ respectively against permissible limit of 150 mg/Nm³ which indicated failure of the pollution control devices as installed by the unit.
10. The Ambient Air Quality was measured for PM_{2.5}, PM₁₀, SO_x and NO_x. 8Hr sampling near office building (North East Corner) and near RPC stock yard shows excess of RSPM of 130 and 142 µg/m³ against permissible limits of 80µg/m³ which proves non functioning of pollution control arrangement. Monitoring started on 27.04.16 since 15Hr.

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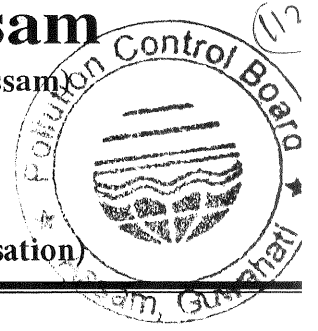
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The monitoring conducted by PCBA in the month of January, 2016 also indicated exceedance of permissible limits by the pollutants which was let known to you by PCBA vide its letter dated 29.02.2016. The analysis report was received by you on deposition of Rs.23,000/- vide DD No. 013173 dtd 16.02.2016 of AXIS bank.

11. As there was rain during remaining 16Hrs, the PM_{2.5}, PM₁₀ were found within permissible limits due to wash out of SPM by rain.
12. The single cyclone arrangement provided for treatment of flue gases generated in the Rotary Kiln Cooler and release of treated gases through Rotary Kiln was disconnected at the time of monitoring. By doing so, all the flue gases generated in the rotary cooler were emitted from a chimney connected to the rotary cooler without any treatment.
13. No provision was made in the cooler stack for emission monitoring.
14. A Bag House was placed by the unit to arrest dust generated during crushing & screening for required sizing of CPC, it was not in operation at the time of monitoring though the process of screening and sizing were in operation.
15. Though the unit has a shed for storage of RPC, RPC is stored outside the shed as the existing storage shed is having less storage capacity. Dumping and subsequent transfer of RPC in open air, created fugitive emission as observed during the inspection.
16. Though the unit made arrangement two retention pits for passing the rain water run off and thus to retain coke fines during rainfall, it was observed that these pits are small in capacity. Due to this, the effluents find its way into the nearby Tunia River through an opening made in the side wall of the storage area.
17. The unit does not have any vehicle washing/ cleaning system to arrest coke fines going out of the unit to the main road and thus they failed to control spreading of pollution.

Whereas, you were informed vide PCBA's letter dtd 29.02.16 about receiving of numerous public complaints against your above mentioned industry regarding pollution caused to the environment, is established and the joint inspection & monitoring confirms failure on your part to meet with desired industry specific emission standards. The fact of bypassing the flue gas from entering the APC device is established during inspection and monitoring. From the aforesaid findings, it is established that you are not taking any steps to control pollution and thus issuance of Show Cause Notice vide letter dtd 29.02.16 was not contrary to the provisions of enforcing Acts & Rules besides being factually correct for which your replies against SHOW CAUSE NOTICE is not acceptable to PCBA; and

It is evident from the above observations that the unit employs obsolete technologies resulting release of high emission and untreated effluent. Poor operation and maintenance of pollution control devices have resulted release of Particulate & Suspended Matter much beyond stipulated standards as notified by Govt. of India. Inadequate and less efficient Air Pollution Control Devices are unable to provide requisite treatment, posing potential threat to the environmental pollution.

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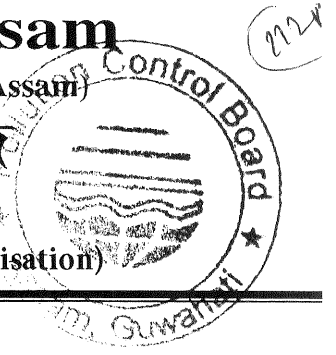
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AND WHEREAS, PCBA is exercising power conferred under Section 31(A) of Air (Prevention and Control of Pollution) Act, 1981 as amended till date directs you for compliance of the following directions:

a) To stop its operation forthwith till the industry complies with

- i) Modification and retrofitting of APC device connected to the Rotary Kiln (including installation of new Wet Scrubber) so as to comply with industry specific emission standards.
- ii) Rotary cooler exhaust to be connected with APC Devices.
- iii) Installation of interlocking system, which will ensure that whenever the APC devices stop functioning, raw material feeding conveyer belt motor trips and subsequent Kiln, product, cooler conveyor comes to a halt.
- iv) Construction of a new shed for storing of RPC so that the raw material shall always be stored inside a permanent shed. The unit shall ensure that rain water does not come in contact with the raw material so as to avoid any run off.
- v) The unit shall install a vehicle tyre washing facility at the material entry point (to minimize fugitive emission and to arrest coke particles going into the public road).
- vi) Installation of proper monitoring facilities including proper ladder at all the chimneys (cooler chimney, screener cum crusher bag filter chimney).
- vii) The unit shall provide retention pits of adequate size at storm water drain just before the final discharge point. The pit shall be maintained properly and coke particles deposited shall be cleaned periodically to meet with the general discharge standards for environmental pollutants.
- viii) The unit shall install online emission monitoring system and the same are to be linked with CPCB and PCBA website.
- ix) The unit shall furnish clarification from Appropriate Authority regarding non installation of the unit at a land which does not fall under Sixth Schedule in the Constitution of India.
- x) The industry shall inform PCBA and CPCB regarding compliance of the above mentioned points after which a joint inspection will be made to assess the compliance made by the unit.
- xi) You have to obtain Consent to Operate under Air (Prevention & Control of Pollution) Act, 1981 as amended, Water (Prevention & Control of Pollution) Act, 1974 as amended and Grant of Authorization under Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 from the Board before PCBA allows you to restart its operation.

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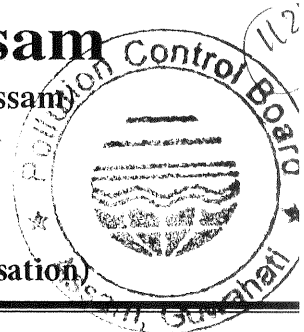
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In case of default in compliance with the above directions by the unit, Pollution Control Board, Assam will be constrained to initiate appropriate action against the unit without giving you any further notice, in accordance with enforcing Acts & Rules.

Member Secretary (i/c)

Dated Guwahati the, 24th May, 2016

Memo No. WB/BONG/T-21/09-10/112-A,

Copy forwarded to:

1. The Secretary to the Govt. of Assam, Environment & Forest Department, Dispur, Guwahati-781006 for kind information alongwith a copy of findings by joint team comprising CPCB & PCBA officials on the activities and performance of Air Control Device of M/s Carbon Resources Pvt. Ltd, Kukurmari, Dhaligaon. Dist Chirang.
2. The Deputy Commissioner, Chirag District, Assam for kind information with reference to CPCB letter No NEZO/319(PCU)/2016-17/94 dtd May 11, 2016.
3. The Deputy General Manager, Bongaigaon Electrical Circle, APDCL (LAZ) Bongaigaon for information and necessary action. He is requested kindly to disconnect the power supply to M/s Carbon Resources Pvt Ltd, Kukurmari village, Dhaligaon. Dist Chirang Assam as per the provisions of Section 31 A of Air (Prevention & Control of Pollution) Act,1981 as amended and inform the same to this Board urgently. Copy of provision of the said Act is enclosed for ready reference.
4. The Member Secretary, CPCB, Parivesh Bhawan, East Arjun Nagar, Delhi-110032 for kind information.
5. The Scientist- E & i/c, CPCB, North Eastern Zonal Office, 'TUM-SIR', Lower Moti Nagar Near Fire Brigade HQ. Shillong-793014 with reference to his letter No NEZO/319(PCU)/2016-17/94 dtd May11,2016.
6. Regional Executive Engineer, Regional Laboratory cum Office, Bongaigaon for information & necessary action. He is directed to report compliance of the order.

Member Secretary (i/c)