

BEFORE THE NATIONAL GREEN TRIBUNAL, NEW DELHI

APPLICATION NO. 178 OF 2014

IN THE MATTER

SHWETA NARAYAN

APPLICANT

VERSUS

UNION OF INDIA & OTHERS

RESPONDENTS

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(A. B. Akolkar)

Member Secretary

DELHI

DATED: 22nd February, 2016

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, NEW DELHI

APPLICATION NO. 178 OF 2014

IN THE MATTER

SHWETA NARAYAN

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VERSUS

UNION OF INDIA & OTHERS

RESPONDENTS

AFFIDAVIT OF A. B. AKOLKAR, S/O LATE SHRI B. P. AKOLKAR, MEMBER SECRETARY, CENTRAL POLLUTION CONTROL BOARD, PARIVESH BHAWAN, EAST ARJUN NAGAR, DELHI-32,

I, A. B. Akolkar, S/o Late Sh. B.P. Akolkar, Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032 do hereby solemnly affirm and declare as under;

That I, in the capacity of Member Secretary, am fully conversant with the facts of the case and competent to swear this affidavit:

That, the Hon'ble Tribunal in the matter of Shweta Narayan Vs. Union of India & Others, on 21.01.2016, passed the following order:

"Joint minutes of the meeting of the Boards, Officers and Member Secretary, Central Pollution Control Board shall be placed on record in relation to the queries raised".

Amr

- ii. That the queries were raised relating to;
- (a) Whether environmental clearance (EC) is required by cement plants for co-processing of hazardous wastes, and
 - (b) Also deliberate on issues related to emission monitoring and compliance.
- iii. That, in compliance to the Hon'ble Tribunal's order dated 21.01.2016, a joint meeting of Member Secretary, CPCB; officers of all the respondent State Pollution Control Boards (SPCBs) and Ministry of Environment, Forests & Climate Change (MoEFCC) was held on 08.02.2016 at Delhi and chaired by Chairman, CPCB. In the meeting following important points were discussed:
- a) Considering the advantages associated with co-processing, it was agreed that co-processing of wastes in cement kiln is a good option to solve the disposal problem of the hazardous waste in an environmentally sound manner and be encouraged
 - b) SPCBs are verifying the compliance status w.r.t. particulate matter emission as per consent order, as co-processing standards are yet to be notified. The Adviser (CP), MoEF&CC, informed that draft emission standards on co-processing of wastes in cement plants were discussed in the 9th meeting of the Expert Committee on Environmental Standards held on 15.10.2015. The MoEFCC is in the process of finalizing and notifying the emission standards on co-processing of wastes in cement plant.

- c) To verify the compliance of the proposed standards, SPCBs shall conduct the emission monitoring of all the parameters. In case SPCBs do not have emission monitoring and analysis facility of parameters like dioxins & furans, heavy metals etc., they can engage the third party till such time SPCBs develop their own laboratory facility.
- d) CPCB will submit a proposal to MoEF&CC for taking the decision on exemption of Environmental Clearance for co-processing of wastes in cement plants.
- e) SPCBs shall submit the information to CPCB by 12.2.2016 on the points raised by the applicant on 21.1.2016 (i.e. grant and renewal of authorization, emission monitoring & compliance, inventorisation of waste, training & awareness, valid recognition of environmental laboratories, identification of site for Treatment Storage Disposal Facility (TSDF), compliance of EIA Notification, 2006). CPCB will compile the data and submit to Hon'ble NGT.

The minutes of the meeting is annexed as **Annexure-I**.

IV. That, CPCB has sent the proposal to MoEF&CC for taking the decision on exemption of Env. Clearance for co-processing of wastes in cement plants on 16.02.2016. The copy of the proposal is annexed as **Annexure-II**.

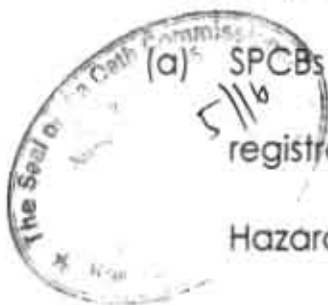
- v. That, to verify the compliance of the proposed standards by SPCBs, minutes of the meeting has been circulated to all the

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respondent SPCBs for necessary action at their end. The copy of the letter is annexed as **Annexure-III**.

- vi. That the applicant has raised the points on 21.01.2016 that 7 SPCBs viz. namely Tamil Nadu, Chhattisgarh, Gujarat, Madhya Pradesh, Maharashtra, Andhra Pradesh, Orissa do not have information on grant and renewal of authorization, emission monitoring & compliance, inventorisation of waste, training and awareness, valid recognition of environmental laboratories, identification of site for Treatment, Storage, and Disposal Facility (TSDF), compliance of EIA Notification, 2006. In this regard, these 7 SPCBs have submitted the information to CPCB on the above mentioned points raised by the Applicant. In addition Himachal Pradesh, Karnataka and Rajasthan SPCBs have also provided the information. The compiled data is enclosed as **Annexure-IV**.

The compiled data reveals that



(a) SPCBs have the information on grant and renewal of registration/authorization granted under Rule 5 of Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules 2008, to cement plants.

(b) Emission monitoring data with respect to particulate matter is available with the SPCBs.

(c) The data pertaining to inventorisation of waste is available with SPCBs and even few SPCBs have placed the data at their website.

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- (d) Regarding training and awareness, SPCBs have informed that the matter is related to CPCB. Further, CPCB in its affidavit dated 04.12.2014 have mentioned that CPCB conducted 7 workshops on co-processing of wastes in different region of the country. CPCB also organized international study tour in collaboration with SINTEF, Norway, wherein 28 officials have been given training abroad.
- (e) Most of the SPCBs have NABL/EPA, 1986 recognized laboratories, and few have stated that they are in the process of taking NABL accreditation/EPA 1986 recognition.
- (f) Regarding identification of site for Treatment, Storage and Disposal Facility (TSD), SPCBs have provided the information of TSD facility available in their state.
- (g) Regarding compliance of EIA notification 2006, CPCB has submitted the proposal to MoEFCC for taking the decision on exemption of Environmental Clearance for co-processing of wastes in cement plants.

VII. That, queries raised by the Applicant regarding definition of co-processing, it is to submit that the definition of co-processing given in CPCB's affidavit on 04.12.2014 is globally adopted, which is given below :-

"Co-processing: The use of suitable waste materials in manufacturing processes for the purpose of energy and/or resource recovery and resultant reduction in the use of

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conventional fuels and/or raw materials through substitution is called as co-processing."

VIII. That, applicant has raised the query that in trial run study for co-processing of vaporub process waste at M/s ACC Ltd., Gagal Cement Works, HP and one year study at M/s Ultratech cement limited, Reddipalayam, Tamil Nadu, the emission monitoring protocol was not followed. In this regard, it is to submit that both the above studies have separate protocols to be followed. The trial run study at M/s ACC Ltd., Gagal Cement Works was conducted for 5 days as per the protocol given in the guidelines on co-processing in cement/power/steel industries. The study at M/s Ultratech cement limited, Reddipalayam, was a long term study for one year to monitor the emission and ambient air quality. The separate protocol was adopted for this one year study. During normal operation, the emission monitoring and ambient air quality monitoring were carried out for 3 days, while during regular co-processing emission monitoring was carried out twice in a month and ambient air quality monitoring was carried out twice in week for one year. The emission monitoring for PM was conducted as per iso-kinetic sampling followed by gravimetric method of measurement, as done in all other cases.

IX. That, for emission monitoring data of cement plants, it was agreed in the meeting, held on 08.02.2016, that to verify the compliance of the proposed standards, SPCBs should conduct the emission monitoring of all the parameters. In case SPCBs do

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not have emission monitoring and analysis facility of parameters like dioxins & furans, heavy metals etc., they can engage the third party till such time they develop their own laboratory facility.

- x. That, applicant has raised the query that MoEFCC is silent on the proposed emission standards of co-processing. The issue was discussed in the meeting held on 08.02.2016 and the Adviser (CP), MoEF&CC, informed that draft standards were discussed in the Expert Committee on Environmental Standards, constituted by MoEF&CC, on 15.10.2015. The MoEF&CC is in the process of finalising and notifying the same.
- xi. That, answering respondent shall abide by any directions of this Hon'ble Tribunal while considering and disposing off this application.



[Signature]
DEPONENT

VERIFICATION

[Signature]
 I Identify the Executant/Deponent who has signed in my presence.

Verified that the content of this affidavit, which is based on official record and information available in the office, are true and correct. Nothing has been concealed therein.

Verified on this day 22nd February, 2016 at New Delhi.

CERTIFIED THAT THE DEPONENT
 Shri/Smt. AB Akolkar
 is the Executant/Deponent
 who has signed in my presence
 on 23 feb 2016 at 5/16
 that the content of this affidavit
 are true & correct.
[Signature]
 Oath Commissioner, NGT Court, Dehra

23 FEB 2016

[Signature]
DEPONENT

Minutes of the meeting in compliance to the Hon'ble NGT's order dt. 21.01.2016 in the matter of Shweta Narayan Vs. Union of India & others on co-processing of wastes in cement plant

In compliance to the Hon'ble NGT's Order dt. 21.01.2016 in the matter of Shweta Narayan Vs. Union of India & Ors, Application No. 178 of 2014, CPCB convened a meeting of all the Respondent SPCBs and Ministry of Environment, Forest & Climate Change on 8.2.2016 at MoEFCC, New Delhi. The meeting was chaired by Shri A. K. Mehta, Chairman, CPCB. The list of the participants is annexed.

At the outset, Chairman, CPCB welcomed the participants and asked Dr. A.B. Akolkar, Member Secretary, CPCB to brief about the Order of the Hon'ble NGT. Member Secretary, CPCB informed that Hon'ble NGT has asked to address whether environmental clearance (EC) is required by cement plants for co-processing of hazardous wastes and also deliberate on issues related to emission monitoring and compliance.

CPCB highlighted the suitability of cement kiln for co-processing of wastes. It was stated that cement kiln is having temperature in the range of 1250 - 1400°C (in comparison to 1100°C temp. of incinerators) and residence time of 4-5 seconds in an oxygen rich atmosphere which ensures destruction of organic compounds. Also no ash is generated from the co-processing. The benefits of co-processing include reduction in green house gas emission, conservation of fossil fuel resources and no future liability of waste. It was stated that during trial run studies for co-processing of wastes, it is demonstrated that during co-processing, emissions of SO₂, NO_x, HCl, HF, TOC, Hg and its compounds, Cd+Tl and their compounds, Sb+As+Pb+Co+Cr+Cu+Mn+Ni+V and their compounds, and dioxins and furans do not exceeds the base line emission i.e. during pre co-processing phase when only conventional fuel is used and particulate matter emission is within the norms prescribed in consent order. Further, under Rule 11 of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, regular permission is granted to cement plants for only those hazardous wastes, for which trial run study is conducted as per the existing guidelines on co-processing of wastes in cement plants, developed by CPCB.

Considering the advantages associated with co-processing, it was agreed that co-processing of wastes in cement kiln is a good option to solve the disposal problem of the hazardous waste in an environmentally sound manner and should be encouraged.

CPCB stated that under the EIA Notification, 2006, Para No. 4(ii), 6 and 7(ii), Environmental Clearance is required for expansion or modernization or change in product mix in existing projects. Co-processing is basically a part substitute of fuel / raw material by waste. The product is same i.e. cement and quality & quantity as well. Therefore, co-processing may not fall under expansion and modernization or change in product mix and thus Environmental Clearance may not be required. Further, under the EIA Notification, 2006, schedule at 7(d), Environmental Clearance is required for Common hazardous waste treatment, storage and disposal facilities (TSDFs). Co-processing activity in the cement plant may not be called as common hazardous waste treatment, storage and disposal facilities (TSDFs) as they do not require disposal facility such as landfill or incineration. Hence, Environmental Clearance under this category would not be applicable. However, cement plants are required to obtain the specific permission from CPCB for co-processing of hazardous wastes under Rule 11 of the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules of 2008 and authorization from the concerned SPCB under Rule 5 of the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules of 2008 for storage, handling, transportation and co-processing of hazardous waste.

Shri Manoj Kumar Singh, Joint Secretary, MoEF&CC, informed that recently MoEF&CC has exempted the grant of Env. Clearance to those cement plants which are using petcoke instead of coal, after evaluation of their proposal for its use. Likewise, CPCB may submit a proposal to MoEF&CC for taking the decision on exemption of Env. Clearance for co-processing of wastes in cement plants.

It was discussed that during trial run study, comprehensive emission monitoring is conducted for all the parameters to ensure that there is no additional pollution load due to co-processing. Further SPCBs are verifying the compliance status w.r.t. particulate matter emission as per consent order, as co-processing standards are yet to be notified. Dr. Rashid Hasan, Adviser, MoEF&CC informed that draft emission standards on co-processing of wastes in cement plant were discussed in the 9th meeting of the Expert Committee on Environmental Standards held on 15.10.2015. MoEF&CC is in the process of finalizing and notifying the emission standards on co-processing of wastes in cement plant. It was discussed that SPCBs which do not have facility to monitor the emissions may engage the third party till such time they develop their own facility.

The Chairman, CPCB concluded that following decisions have been taken in the meeting.

1. CPCB will submit a proposal to MoEF&CC for taking the decision on exemption of Env. Clearance for co-processing of wastes in cement plants.
2. To verify the compliance of the proposed standards, SPCBs shall conduct the emission monitoring of all the parameters. In case SPCBs do not have emission monitoring and analysis facility of parameters like dioxins & furans, heavy metals etc., they can engage the third party till such time they develop their own laboratory facility.
3. SPCBs shall submit the information to CPCB by 12.2.2016 on the points raised by the Applicant on 21.1.2016 (i.e. grant and renewal of authorization, emission monitoring & compliance, inventorisation of waste, training & awareness, valid recognition of env. labs, identification of site for TSDF, compliance of EIA Notification, 2006). CPCB will compile the data and submit to Hon'ble NGT.

The meeting ended with the vote of thanks to the chair.

List of Participants

1. Sh. A.K. Mehta, Chairman, CPCB, Delhi.
2. Dr. A.B. Akolkar, Member Secretary, CPCB, Delhi.
3. Sh. Manoj Kumar Singh, Joint. Secretary, MoEFCC, New Delhi.
4. Dr. Rashid Hasan, Sc. G, MoEFCC, New Delhi.
5. Dr. Satish C. Garkoti, Sc. F, MoEFCC, New Delhi
6. Sh. Amardeep Raju, Sc. D, MoEFCC, New Delhi.
7. Sh. S.K. Suman, Member Secretary, Jharkhand State Pollution Control Board, Jharkhand.
8. Sh. S. Nanda Kumar, Chief Environment Officer, Karnataka State Pollution Control Board, Karnataka.
9. Sh. B. Raghu, Sr. Environment Engineer, Telengana State Pollution Control Board, Telengana.
10. Sh. Rakesh Gupta, Environment Engineer, Rajasthan Pollution Control Board, Rajasthan.
11. Sh. Praveen Sharma, SO, Himachal Pradesh State Pollution Control Board, Himachal Pradesh.
12. Sh. H.S. Malviya, Superintending Engineer, Madhya Pradesh Pollution Control Board, Madhya Pradesh.
13. Sh. Nandkumar N Gurav, RO, (HQ), Maharashtra Pollution Control Board, Maharashtra.
14. Sh. A. Thangapandian, Jt. Chief Env. Eng., Tamil Nadu Pollution Control Board, Tamil Nadu.
15. Sh: K.C. Mistry, Sr. Env. Scientist, Gujarat Pollution Control Board, Gujarat.
16. Sh. John Lakra, Chhattisgarh Environment Conservation Board, Chhattisgarh.
17. Dr. A.K. Swar, Sr. Environment Engineer, Orissa State Pollution Control Board, Orissa.
18. Sh. B. Vinod Babu, Sc. E & I/c HWMD, CPCB, Delhi.
19. Sh. P.K. Gupta, Sc. E, CPCB, Delhi.
20. Sh. B. K. Sharma, Sc. E, CPCB, Delhi.
21. Sh. Ankur Tiwari, Sc. C, CPCB, Delhi.
22. Dr. S. Chatterjee, RA-I, CPCB, Delhi.
23. Ms. Dipti Jain, SRF, CPCB, Delhi.

B-33014/7/2016/PCI-II

3503

February 16, 2015

To,

Shri Manoj Kumar Singh
Joint Secretary
Ministry of Environment, Forest
and Climate Change
Indira Paryavaran Bhavan
Aliganj, Jor Bagh Road,
New Delhi-110 003

Sub: Proposal for Exemption of Environmental Clearance for Co-processing hazardous wastes in Cement Plants - NGT Matter

Sir,

This refers to the Order of Hon'ble NGT dated 21.1.2015 in the matter of Shweta Narayan Vs. Union of India & others (Application no. 178 of 2014). The Hon'ble NGT has ordered to convene a meeting of the stakeholders to discuss whether co-processing of hazardous wastes in cement plants attracts the provisions of the EIA Notification, 2006 to take Environmental Clearance? and submit the minutes of the meeting.

In compliance of Hon'ble NGT Order a meeting of stakeholder including MoEFCC was convened on 8.2.2016. In the meeting, it was considered that CPCB will forward a proposal to MoEFCC for taking the decision on exemption of Environmental Clearance for co-processing of hazardous wastes in cement plants. Accordingly the proposal is enclosed for consideration.

It is requested to take decision in the matter and same may kindly be conveyed, as next date of hearing in Hon'ble NGT is on 24.2.2016.

With kind regards,

Yours faithfully

A. B. Akolkar

(A. B. Akolkar)
Member Secretary

Encl.: As above

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
निर्गत *Bhela*
दिनांक 22/02/16

OTC, PKR

Proposal for exemption of Environmental Clearance for co-processing hazardous wastes in cement plants

1. Background

Shweta Narayan, in her petition no.178/2014 filed in the National Green Tribunal, New Delhi has raised following point related to the requirement of Environmental clearance for undertaking co-processing of wastes in cement kilns.

7.2 That under the EIA notification of 2006, Para No. 4(ii), 6 and 7(ii) read with the Schedule at 7(d) indicates that, the facilities for treatment, storage and disposal of hazardous wastes, as inclusive in Category A, require an Environment Clearance (EC) from the MoEF on the recommendations of an EAC.

As per Para 7 (ii) of the EIA Notification of 2006, " All applications seeking prior environmental clearance for expansion.... or the modernization of an existing unit with increase in the total production capacity beyond the threshold limit prescribed in the Schedule to this notification through change in process and or technology or involving a change in the product mix shall be made in Form -I and they shall be considered by an EAC or 'State Level EAC within 60 days, who will decide on the due diligence necessary including preparation of EIA and public consultations and the application shall be appraised accordingly for grant 'of environmental clearance."

It is submitted that under the Guidelines on 'co-processing in cement, power and steel Industry published-by the CPCB, the CPCB itself is the authority to grant approval for utilization of wastes.

An Important aspect of the co-incineration program is with regard to the legality of storage of hazardous waste on plant -site. Facilities set up for storage and handling of hazardous wastes along with obtaining an EC, must also make an application to the Member - Secretary, SPCB or PCC or any officer designated by the SPCB/PCC for the grant of authorization for operating the facility, under Rule 5 of the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008, henceforth known as the Hazardous Waste Rules.

Hereto attached and annexed as -ANNEXURE A-5 and ANNEXURE A-6 are the copies of the *relevant* pages from the EIA Notification of 2006, and the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules of 2008, respectively.

In this matter, Hon'ble NGT has given order on 21.1.2016 that CPCB will organize the meeting with the SPCBs and discuss whether Co-processing attracts the provisions of EIA, Notification, 2006 to take Environmental clearance and also deliberate on issues related to emission monitoring and compliance. In compliance of the NGT Order, CPCB convened the meeting of stakeholder including MoEFFCC on 8.2.2016. It was decided in the meeting that CPCB will

submit the proposal to MoEFCC for taking decision on exemption of Environmental Clearance for co-processing of wastes in cement plants.

2. Co-processing Vs TSDF

According to the EIA Notification, 2006, schedule at 7(d), Environmental Clearance is required for Common hazardous waste treatment, storage and disposal facilities (TSDFs). Co-processing activity in the cement plant may not be called as common hazardous waste treatment, storage and disposal facilities (TSDFs) as they do not require disposal facility such as landfill or incineration. **Following are the differentiators between co-processing and TSDF.**

- (1) In cement kiln co-processing,
 - *There is no separate incineration or landfill activity involved.*
 - *Waste gets utilized as fuel or raw material in cement process.*
 - *Waste gets converted into clinker product.*
 - *There is no generation of residue or fly ash or bottom ash for disposal.*
- (2) Co-processing is a recovery operation and TSDF is a disposal activity.
- (3) Co-processing is much higher over incineration and landfill options in the waste management hierarchy.
- (4) Co-processing conserves fossil fuel and TSDFs consume fossil fuels.
- (5) There is no waste foot print in the environment after co-processing because it is a zero residue process. TSDFs leave a large footprint in the environment because of landfill that remains locked for many years.
- (6) Co-processing facilitates conservation of fossil fuels & natural materials due to use of wastes as Alternative Fuels and Raw materials (AFRs) in cement manufacture. TSDFs utilize additional fossil fuel for burning and render large quantum of land useless for future use.
- (7) Co-processing reduces GHG emissions because waste substitutes coal in cement manufacturing process. TSDFs contribute to GHG emissions because of the additional fuel that is used for burning.

3. Reasons, why Environmental Clearance may not be required for co-processing?

- (1) The EIA notification SO1533(E) dated 14th Sept, 2006 specifies that EC is required if there is expansion, modernization or product mix change in the

existing plant. Co-processing does not involve any of the above specified prerequisites. Co-processing is basically a part substitute of fuel / raw material by waste. The product is same i.e. cement and quality & quantity as well. Therefore, co-processing may not fall under expansion and modernization or change in product mix and thus Environmental Clearance may not be required.

- (2) Co-processing activity in cement plants does not fall under any schedule of EIA notification, 2006.
- (3) Cement plants and the co-processing activity in the same is not categorized as common hazardous waste treatment, storage and disposal facilities (TSDFs) as specified under Sr. no 7 (d) of schedule of EIA notification (Cement plant does not have disposal facility such as landfill or incineration facility). Hence, EC under category 7 (d) of EIA notification would not be applicable.
- (4) Wastes are actually co-processed to recover the energy and material value present in them.
- (5) Specific provision has already been made for co-processing (utilization of Hazardous wastes as supplementary resource or for energy recovery) under Rule 11 and Rule 5 of Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules 2008 wherein cement plant co-processing the hazardous wastes are required to take permission from CPCB and concerned SPCB for Co-processing and storage, handling & transporting of hazardous wastes respectively.
- (6) CPCB has prepared the Guidelines on Co-processing of wastes in cement industry in February, 2010 (copy enclosed). These guidelines are being followed by Regulatory Authorities, cement plants, waste generators etc.
- (7) All the trial run studies conducted for co-processing of wastes in cement kiln have demonstrated that there is no additional pollution load due to co-processing in cement kiln.
- (8) Considering the advantages of co-processing, MoEFCC is specifying a condition in Env. Clearances of new cement plants for use of high calorific hazardous waste in their cement kilns.
- (9) There is no landfill activity while co-processing wastes in cement kilns and hence there is no waste foot print in the environment.
- (10) From environmental considerations, co-processing is associated with following advantages.
 - a. Avoiding land filling / incineration of wastes
 - b. Reducing the green house gas emissions

- c. Conserving fossil fuel / raw material resources and avoiding mining activity on account of that
- d. Enhancing the total treatment capacity of wastes in the country

Hence, EC amendment may not be relevant for cement plants which are co-processing wastes.

speed post

Annexure - II

B-33014/7/2016/PCI-II

February 22, 2016

To

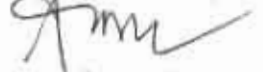
The Member Secretary
SPCBs (List attached)

Sub: Minutes of the meeting on co-processing of wastes in cement kiln – Hon'ble NGT Order

Sir,

In compliance of Order of Hon'ble NGT dated 21.1.2016 in the matter of Shweta Narayan Vs. Union of India & others (Original Application no. 178 of 2014), a meeting was held on 8.2.2016 at MoEFCC, Delhi. One of the decisions taken in the meeting is that "To verify the compliance of the proposed standards (copy enclosed), SPCBs shall conduct the emission monitoring of all the parameters. In case SPCBs do not have emission monitoring and analysis facility of parameters like dioxins & furans, heavy metals etc., they can engage the third party till such time they develop their own laboratory facility". The minutes of the meeting are enclosed for reference and necessary action pl.

Yours faithfully



(A. B. Akolkar)
Member Secretary

Encl.: As above

Copy to:

I/c HWMD
CPCB, Delhi

कन्द्रीय प्रदूषण नियंत्रण बोर्ड
निर्गत.....
दिनांक.....
22/02/16

SPC, PCC

Member Secretary
A.P. Pollution Control Board
Paryavarana Bhavan 7631
A-3, Industrial Estate
Sanath Nagar
Hyderabad - 500 018, Andhra Pradesh

The Member Secretary
Chhattisgarh Environment Conservation Board
Commercial Complex,
Chhattisgarh Housing Board Colony
Kabir Nagar, Raipur, Chhattisgarh

The Member Secretary
Gujarat Pollution Control Board
Sector 10-A
Gandhi Nagar - 382 043, Gujarat

The Member Secretary
Himachal Pradesh Pollution Control Board
Paryavarana Bhawan
Phase - III, New Simla - 171 009

The Member Secretary
Jharkhand State Pollution Control Board
T.A. Bldg., HEC, P.O. Dhurwa,
Ranchi - 834004, Jharkhand

The Member Secretary
Karnataka State Pollution Control Board
'Parisara Bhawan' 4th & 5th Floor
49, Church Street,
Bangalore-560 001

The Member Secretary
Maharashtra Pollution Control Board
Kalpataru Points, 3rd & 4th Floors
Sion Matunga Scheme Road No. 6
Opp. Cine Planet, Sion Circle, Sion (E)
Mumbai - 400 022

The Member Secretary
Madhya Pradesh Pollution Control Board
Parayavaran Parisar, E-5, Arera Colony
Bhopal - 462 016, Madhya Pradesh

The Member Secretary
Orissa Pollution Control Board
A-118, Nilkanta Nagar
Unit VIII, Bhubaneswar - 751 012
Orissa

The Member Secretary
Rajasthan Pollution Control Board
A-4, Jalane Dungri Institutional Area
Jaipur - 302 004, Rajasthan

The Member Secretary
Tamil Nadu Pollution Control Board
No. 76, Mount Salai, Guindy
Chennai - 600 032
Tamil Nadu

The Member Secretary
Telangana State Pollution Control Board
Paryavarana Bhawan
A-3, Industrial Estate
Sanath Nagar 7642
Hyderabad - 500 018, Andhra Pradesh

[To be published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i)]
MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE
NOTIFICATION

New Delhi, the ...January, 2016

G.S.R..... (E). – In exercise of powers conferred by Sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, Namely :-

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2016.
 (2) They shall come into force on the date of their publication in the official Gazette.
2. In the Environment (Protection) Rules, 1986 -
 (a) in schedule I, in existing serial number 10 for the existing entries and entries relating thereto, the following serial number 10 (A) and entries shall be added, namely:-

S. No.	Industry	Parameter	Standards	
(1)	(2)	(3)	(4)	
10 (A)	Cement Plant with co-processing of wastes	A- Emission Standards		
		Rotary Kiln – with co-processing of Wastes		
		Concentration not to exceed		
		Particulate Matter	Same as applicable for cement plants without co-processing vide notification no. G.S.R. 612(E) dated 25.08.2014 or as amended	
		SO ₂		
		NO _x		
		HCl		
				10 mg/Nm ³
				1 mg/Nm ³
				10 mg/Nm ³ *
			Hg and its compounds	0.05 mg/Nm ³
			Cd +Tl and their compounds	0.05 mg/Nm ³
	Sb+As+Pb+Co+Cr+Cu+Mn+Ni+V and their compounds	0.5 mg/Nm ³		
	Dioxins and Furans	0.1 ngTEQ/Nm ³		
	<p>Note: *Permitting authority may prescribe separate standards on case to case basis, if TOC does not result from the co-processing of waste.</p> <p>a. The height of each individual stack connected to Kiln, Clinker Cooler, Cement Mill, Coal Mill, Raw Mill, Packaging section, etc. shall be of a minimum of 30 metres or, as per the formula $H = 14 (Q1)^{0.3}$ & $H = 74 (Q2)^{0.27}$ whichever is more, where "H" is the height</p>			

		<p>of stack in metres and "Q1" is the maximum quantity of SO₂ expected to be emitted in kg/hr & "Q2" is the maximum quantity of PM expected to be emitted in tonnes/hr through the stack at 100 percent rated capacity of the plant.</p> <p>b. The monitored values of SO₂, NO_x, HCl, HF, TOC, Metals and Dioxins & Furans at main kiln stack shall be corrected to 10% Oxygen, on dry basis. The norms for SO₂, NO_x, HCl, HF, TOC, Metals and Dioxins & Furans shall be applicable to main kiln stack. The norms for Particulate Matter (PM) shall be applicable to all the stacks in the plant. PM, SO₂, NO_x shall be monitored continuously. HCl, HF, TOC, Metals and Dioxins & Furans shall be monitored once in a year.</p> <p>c. Scrubber meant for scrubbing emissions shall not be used as quencher. Plants having separate stack for gaseous emission for the scrubbing unit, the height of this stack shall be atleast equal to the main stack.</p>										
		<p align="center">B- Service waste water (with co-processing of wastes)</p> <p>All efforts shall be made by the industry for 'zero discharge' of service wastewater. In case, the industry prefers to discharge service wastewater, the following norms shall be complied with:</p> <table border="1"> <thead> <tr> <th></th> <th align="center">Concentration not to exceed, milligram per litre (except pH and temperature)</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td align="center">5.5 to 9.0</td> </tr> <tr> <td>Suspended Solids</td> <td align="center">100</td> </tr> <tr> <td>Oil and Grease</td> <td align="center">10</td> </tr> <tr> <td>Temperature</td> <td align="center">not more than 5°C higher than the intake water temperature</td> </tr> </tbody> </table>		Concentration not to exceed, milligram per litre (except pH and temperature)	pH	5.5 to 9.0	Suspended Solids	100	Oil and Grease	10	Temperature	not more than 5°C higher than the intake water temperature
	Concentration not to exceed, milligram per litre (except pH and temperature)											
pH	5.5 to 9.0											
Suspended Solids	100											
Oil and Grease	10											
Temperature	not more than 5°C higher than the intake water temperature											
		<p align="center">C- Storm water</p> <p>(I) Stormwater shall not be allowed to mix with effluent, treated sewage, scrubber water and / or floor washings.</p> <p>(II) Stormwater within battery limits of industry shall be channelized through separate drain(s).</p>										

- (b) In schedule VI, under 'Part-D' relating to General Emission Standards, in item III relating to Load / Mass based standards, after serial number 10, and the entries relating thereto, the following serial number and entries shall be inserted, namely:-

(1)	(2)	(3)	(4)
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10 (A)	Cement Plants (with co-processing)	Rotary kiln based plants (Particulate Matter from raw mill, kiln and pre-calciner system put together)	Same as applicable for cement plants without co-processing
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[F. NO. Q-15017/40/2007-CPW]

(Dr. Rashid Hasan)

Advisor

Note:- The principal rules were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i) vide notification number S. O. 393 (E), dated 16th April, 1987 and lastly amended vide notification number G.S.R. 612(E), dated 25th August, 2014.

To

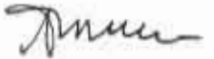
- 3514 - Shri Manoj Kumar Singh
Joint Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhavan
Aliganj, Jor Bagh Road,
New Delhi-110 003
- 3515 - Shri Bishwanath Sinha
Joint Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhavan
Aliganj, Jor Bagh Road,
New Delhi-110 003
- 3516 - Dr. Rashid Hasan (CP)
Advisor (CP)
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhavan
Aliganj, Jor Bagh Road,
New Delhi-110 003

Sub: Minutes of the meeting on co-processing of wastes in cement kiln – Hon'ble NGT Order

Sir,

In compliance of Order of Hon'ble NGT dated 21.1.2016 in the matter of Shweta Narayan Vs. Union of India & others (Original Application no. 178 of 2014), a meeting was held on 8.2.2016 at MoEFCC, Delhi. The minutes of the meeting are enclosed for reference and necessary action pl.

Yours faithfully


(A. B. Akolkar)
Member Secretary

Encl.: As above

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
निर्गत Bahela
दिनांक 22/02/16
JIC, OKL

Annexure-IV

Shweta Narayan Vs. Union of India and Ors.
(O.A.178 of 2014)

State Pollution Control Board	Grant and Renewal of registration/ authorization Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Emission Monitoring & Compliance Rule 6,18,24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Inventorization of waste Rule 5(6), 8(7) & 22(3) & Schedule VIII r/w Rule 23 of the Hazardous waste Rules, 2008	Training and awareness Schedule VII r/w Rule 23 of the Hazardous waste Rules, 2008	Valid recognition of Environmental Laboratories Section 12 of the EPA, 1986	Identification of site for TSDF Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Compliance with the EIA Notification of 2006
Tamilnadu R3	Hazardous waste authorization is issued to cement industries for co-processing of hazardous wastes for which CPCB has issued permission to the concerned industries and the copies are enclosed vide Annexure R-3/A1	Source Monitoring report furnished by M/s Ultratech Ltd. Reddipalayam cement works, Ariyalur, Tamilnadu is enclosed vide Annexure R-3/A2	Enclosed at Annexure- R-3/A3	Training and awareness will be given, if required.	MoEF & CC accredited laboratories carried out air, water, soil or other substances, source monitoring & emission studies (Enclosed vide Annexure- R-3/A4)	TSDF facility is located in Gummipoondi, Thiruvallur District, Tamilnadu and is under operation and hazardous waste are land filled or incinerated.	Processing of Hazardous wastes does not require public hearing and also not attracts the provision of EIA Notification 2006. The decision of EC has to be decided by MoEF only.
Chhattisgarh R-4	M/s Ultratech Cement Limited, (Hirmi Cement Works)	Stack emission Monitoring report by the CECB as Annexure R-4/B1	So far only trial run has been done for Co-processing of hazardous waste. Co-processing of	Related to CPCB, however officials of CECB have attended	The recognition of laboratory of CECB was expired on 28/02/2010	So far no site for TSDF has been identified in the state of chhattisgarh	Not related with the CECB

	P.O.-Hirmi, Tehsil-Simga, Distt.- Balodabazar- Bhatapara (C.G.)	Authorization granted vide letter no. 4793 dated 06/01/2016 as Annexure R- 4/A1b	Stack emission monitoring report by the CECB as Annexure R-4/B2	As per information of the industry till date no hazardous waste has been co- processed.	hazardous waste on regular basis yet to be started.	training program organized by CPCB/MoEF & CC from time to time		
M/s Ultratech Cement Limited, (Unit Rawan Cement Works) (Formerly Known as M/s Grasim Cement) Village- Rawan, P.O.- Grasim Vihar, Teh.-Simga, Distt.- Balodabazar- Bhatapara (C.G.)	Authorization granted vide letter no. 3915 dated 02/11/2013 as Annexure R- 4/A1C1 Authorization granted vide letter no- 661 dated 03/05/2014 as Annexure R- 4/A1C2	Stack emission monitoring report submitted by industry as Annexure R-4/B3 Stack emission report by the CECB Annexure R-4/B4	As per information submitted by the industry, hazardous waste co-processed in the year 2015 as per following:- TDI tar-1391.412 MT, Waste Mix Liquid 6002.2 MT and Waste	hazardous waste on regular basis yet to be started.	training program organized by CPCB/MoEF & CC from time to time			

			<p>Authorization granted vide letter no- 665 dated 03/05/2014 as R-Annexure 4/A1C3</p> <p>Authorization renewal granted vide letter no- 2322 dated 22/08/2015 as Annexure R-4/A1C4</p>			<p>Mix Solid- 7057.727 MT.</p>			
	<p>M/s Lafarge India (P) Ltd. Arasmeta Cement Plant, P.O. Gopalnagar, Distt.- Janjgir- Champa (C.G.)</p>	<p>Authorization granted vide letter no. 1844 dated 01/07/2011 as R-Annexure 4/A1D1</p>			<p>As per information of the industry till date no hazardous waste has been co-processed.</p>				
	<p>M/s Ambuja Cement Ltd., (Cement Plant) P.O.- Rawan, Tehsil- Balodabazar, Distt.- Balodabazar- Bhatapara (C.G.)</p>	<p>Authorization granted vide letter no. 178 dated 08/04/2013 as R-Annexure 4/A1E1</p> <p>Authorization granted vide letter no. 2877 dated 14/08/2014 as R-Annexure</p>	<p>Stack emission monitoring report by the CECB as Annexure R-4/B5</p>	<p>Inventory of hazardous waste co-processed for trial /regular co-processing submitted by industry as R-Annexure 4/C1</p>					

<p>Gujarat SPSB R-5</p>	<p>M/s ACC Limited., P.O.-Jamul Cement Work, Bhilai Distt.-Durg (C.G.)</p>	<p>4/A1E2 Authorization granted vide letter no. 6486 dated 06/02/2013 as R-Annexure 4/A1F1</p>	<p>1. Stack emission monitoring report submitted by industry as R-Annexure 4/B6</p> <p>2. Stack emission monitoring report by the CECB as R-Annexure 4/B7</p>	<p>As information submitted by the industry, hazardous waste co-processed from the year 2013 to 2014 as per following:- Acid tar sludge 282.75 tonnes</p>	<p>GPCEB regularly conducting awareness program, environmental clinics and joint meetings with waste generator and cement industries to enhance concept of co-processing. The details of the same is attached as R-Annexure 5/A4.</p>	<p>The Central Laboratory Gandhinagar and laboratories of regional offices at Bharuch, Rajkot, Surat, Vapi, Jammagar have applied for recognition under section 12 of Environment Protection act 1986. The application is under progress as the query raised by CPCB.</p>	<p>As per Schedule-VII of Hazardous waste (M&H) Rules 2008 site identification and notification shall be issued by the state govt. for TSDF sites. Total six TSDF are in operation, three are closed and five TSDF are in pipeline. Necessary permission will be issued by the Board after Environmental Clearance is granted. As per waste management</p>	<p>Co-processing is only an alternative of change of fuel and/or raw material. There is no change in production capacity. No provision for co processing of Hazardous waste is mentioned in the schedule of EIA notification 2006. Hence, in our opinion EC is</p>
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		<p>cause notices for mainly for dusting, and poor handling of materials in storage area and the compliance of the same is verified by the Board. The details are attached as Annexure R-5/A2</p> <ul style="list-style-type: none"> All cement industries are directed to submit manifest to the Board. 				<p>hierarchy of processing of waste is proven sustainable development concept that reduces demands on natural resources, reduces pollution and landfill space, thus contributing to reduce the environmental footprint. Co - processing of waste shall be promoted so as to reduce burden on the landfills.</p>	<p>not attracted for co-processing of hazardous waste.</p>
<p>Madhya Pradesh Pollution Control Board. R-7</p>	<p>1. M/s ACC Limited, Kymore, Katni 1-Authorization under Rule 5 of the Hazardous Waste Rules 2008 Ho. Letter outward No. 22632 dated 05-11-2015 valid up to 16/10/2020 Annexure-R7/A1</p>	<p>Emission Monitoring online data available at Annexure-R7/A2</p>	<p>Board's inventory is available on official website: www.mppcb.nic.in n, Form-4 for the unit is attached at Annexure-R7/A3</p>	<p>Related to CPCB however officials of MPPCB trained through various in-house and external agencies in the country & abroad Annexure-R7/A4</p>	<p>Central Laboratory of MPPCB Bhopal is approved under EPA. Annexure-R7/A5</p>	<p>This unit is acement plant not the TSDF</p>	<p>NA, Related to MoEFCC</p>

2. M/s Ultratech Cement Ltd. Kohr, Neemuch							
	1-Authorization under Rule 5 of the Hazardous Waste Rules 2008 Ho. Letter outward No. 22561 dated 25-10-2015 valid up to 08/10/2020 Annexure-R7/B1	Emission Monitoring data available at Annexure R-7/B2	Board's inventory is available on official website: www.mppcb.nic.in , Form-4 for the unit is attached at Annexure R-7/B3	Related to CPCB of MPPCB trained through various in-house and external agencies in the country & abroad Annexure R-7/B4	Central Laboratory of MPPCB Bhopal is approved under EPA. Annexure R-7/B5	This unit is not the TSDF	NA, Related to MoEFCC

Point wise comments of MPPCB on common observation:

1. The affidavit is filled with relevant information
2. The copies of authorisation of MPPC & permission issued by CPCB to cement units are file as R7/3, R7/4, R7/5 & R7/6
3. Air quality monitoring data is attached at R7/A2 & R7/B2
4. Matter of EC pertains to MoEFCC
5. Board's inventory is available on official website-www.mppcb.nic.in and are regularly submitted to CPCB
6. No such situation arise.

State Pollution Control Board	Grant and Renewal of registration/ authorization Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Emission Monitoring & Compliance Rule 6,18,24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Inventorization of waste Rule 5(6), 8(7) & 22(3) & Schedule VIII r/w Rule 23 of the Hazardous waste Rules, 2008	Training and awareness Schedule VII r/w Rule 23 of the Hazardous waste Rules, 2008	Valid recognition of Environmental Laboratories Section 12 of the EPA, 1986	Identification of site for TSDF Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Compliance with the EIA Notification of 2006
Maharashtra Pollution Control Board R-9	No authorization has been granted to use H.W., as a co-processor in cement industries. However only trial permission were granted to M/s Ambuja cement on 28/03/2013 valid upto 31/03/2013 and not renewed. Also Board has granted NOC for co-processing of date expired product/batch rejections and raw materials from pharmaceutical.	The Air quality monitoring carried out during the 28/09/2013 to 23/03/2014, which is enclosed herewith.	Board has carried out inventory of H.W. which is available on M.P.C. Board website	As per the schedule VII of the H.W. Rules, the issue is related with CPCB	Status of MoEF recognition under E(P)Act 1986 for Board Laboratories is enclosed herewith	In Maharashtra there are 4 common hazardous waste treatment and disposal facilities in operation. The details of facilities are enclosed.	This is related to MoEF
Andhra Pradesh	3 cement plants in the State have been issued regular	The industries carried out monitoring with	APPCB has carried out the fresh Hazardous Waste Inventory with reference to	The Board in association with IIT, Mumbai	The Laboratory is now with Board	Coastal Management Project (CWMP), Waste Project	As per 7(d) of Schedule EIA

<p>R-10</p>	<p>permission by the CPCB. They are M/s. Ultratech Cement Ltd., Anantapur; M/s. Zuari Cement Ltd., Kadapa and M/s, Bharathi Cement Corporation Private Ltd., Kadapa.</p> <p>Details submitted separately. (Annexure R-10/A1)</p>	<p>NABL accredited laboratories/MOEF recognized laboratories. The copies of the reports are enclosed.</p> <p>The Board monitored data is also enclosed. R-Annexure 10/A2)</p>	<p>the Hazardous Waste Management, Handling & Transboundary Movement) Rules, 2008 through M/s. Centre for Environment and Development, Tiruvantapuram, M/s. Green Origin Ventures Pvt. Ltd., Punjagutta, Hyderabad and M/s Lahmeyer GKW Consult GmbH Germany under world bank project.</p> <p>As per the Hazardous Waste inventory carried out in 2014, the generation of hazardous waste from 1924 industries is as follows (Per annum)</p> <p>Land fillable : 1,37,271.20 TPA Recyclable : 3,46,574.86 TPA Incinerable : 75,088.06 TPA</p>	<p>conducted training programme for the Board officials on "Pharma Industry - Environmental Management in Pharma Industry".</p> <p>The Board is also deputing officials to various training programmes conducted by CPCB and other reputed institutes / agencies on management of Hazardous waste.</p>	<p>Telangana State Pollution Control Board. The APPCB is not having accredited laboratory. NABL accreditation is under process. Meanwhile monitoring is being done by Zonal laboratories of APPCB.</p>	<p>Visakhapatnam is operating TSDF facility. The CFO of the facility is valid upto 31.05.2016.</p>	<p>notification, 2006 states that the common integrated Hazardous Waste, Treatment, and Storage and Disposal Facilities (TSDF) having incineration and landfill or incineration alone shall require Environmental Clearance from MoEF, Gol.</p> <p>Whereas the co-incineration is being done in Cement Plants of A.P. which are already having Environmental clearances.</p>
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State Pollution Control Board	Grant and Renewal of registration/ authorization Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Emission Monitoring & Compliance Rule 6,18,24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Inventoryization of waste Rule 5(6), 8(7) & 22(3) & Schedule VIII r/w Rule 23 of the Hazardous waste Rules, 2008	Training awareness and Schedule VII r/w Rule 23 of the Hazardous waste Rules, 2008	Valid recognition of Environmental Laboratories Section 12 of the EPA, 1986	Identification of site for TSDF Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Compliance with the EIA Notification of 2006
Odisha R-11	<p>M/s ACC Ltd., Bargarh</p> <p>Granted authorisation to M/s ACC Ltd., Bargarh, Cement Works for co-processing of different hazardous / non- hazardous waste subject to permission from CPCB, New Delhi. The authorisation is valid up to 31-03-2020. (Annexure R-11/A1)</p> <p>However, this unit is only co-processing non-hazardous waste like ETP sludge of food processing unit, beverages unit; coal and iron ore fines of sponge iron units, rice husk from rice mills etc., and no regular co-processing of hazardous waste is being under taken by this unit till date. This unit has applied</p>	<p>M/s ACC Ltd., Bargarh has installed four nos. of continuous online stack monitoring system to monitor PM, NO, NO2 & SO2.</p> <p>The industry has also installed three nos. Online Continuous Ambient Air Quality System to monitor PM10, PM2.5, CO, NO, NO2, NOx & SO2.</p> <p>These monitoring stations have been</p>	<p>The category of hazardous waste and waste for co-processing has been indicated in the authorization order of M/s ACC Ltd., Bargarh.</p> <p>(Annexure R-11/A1)</p>	<p>CPCB, New Delhi is organizing training programme for SPCB Officials at national level. Officials of SPCB, Odisha are regularly attending these training programmes.</p> <p>An awareness meeting was held on October 29, 2015 conducted by SPCB, Odisha to address various Environmental issues associated with Aluminium Smelters of Odisha. In the above said meeting M/s</p>	<p>Central laboratory of SPCB, Odisha was recognized by CPCB, New Delhi up to 24-03-2010. Renewal of recognition is under process to obtain ISO and OSHA certification.</p>	<p>One Common Hazardous Waste Treatment, Storage & Disposal Facility (CHWTSDF) has been established at Kanchichuan, Jajpur, Odisha operated by M/s Ramky Enviro Engineers Ltd. The facility has been commissioned in the year 2010-11 and</p>	<p>M/s ACC Ltd., Bargarh has also obtained EC where a condition has been stipulated to make use of high alorific solid / hazardous waste as fuel in kiln.</p> <p>M/s ACC Ltd., Bargarh has been submitting half yearly report to</p>

	<p>for trial run of certain hazardous wastes in cement kiln. The application will be considered subject to permission is obtained from CPCB, New Delhi.</p>	<p>connected with the server of the Board for real time data transmission. The parameters mostly meet the stipulated norms. (Annexure R-11/A3)</p>		<p>ACC Ltd., & M/s OCL India Ltd., has been instructed to develop a techno-economically viable model for co-processing of Spent Pot Lining (SPL) generated from Aluminium Smelters in their cement kiln after discussion with the Smelters.</p>		<p>has area of 70 acres. The facility has installed capacity of 40,000 T/A to handle hazardous waste. Authorization is granted to the facility up to 31-03-2020 by SPCB, Odisha. (Annexure R-11/A5)</p>	<p>SPCB, Odisha as per the requirement of E.C. conditions.</p>
	<p>M/s OCL India Ltd., (Cement Unit) Granted authorisation to M/s OCL India Ltd., (Cement Unit) without any provision for co-processing in cement kiln which is valid up to 31-03-2020. Presently they have applied for FMCG Trade Rejects which is not hazardous waste to co-process in their kiln. The application is under consideration and will be considered subject to CPCB guideline on co-processing. (Annexure R-11/A2)</p>	<p>M/s OCL India Ltd., (Cement Unit) has installed ten nos. of online continuous stack monitoring system to monitor PM, NOx & SOx. The industry has also installed four nos. Online Continuous Ambient Air Quality System to monitor PM10, PM2.5, CO, NO, NO2, NOx &</p>	<p>M/s OCL Ltd Cement unit has not been authorized to co-process HW in their cement kiln Annexure R11/A2</p>			<p>M/s OCL India Ltd., (Cement Unit) has also obtained EC. A condition has been stipulated in the EC to make use of high calorific hazardous waste as fuel in kiln.</p>	

																											<p>M/s OCL India Ltd., (Cement Unit) has been submitting half yearly report to SPCB, Odisha as per the requirement of E.C. conditions.</p> <p>EC has been obtained by TSDf for the current facility and also for expansion of the facility.</p> <p>This TSDf does not have facility for incineration.</p>
SO ₂ .	<p>These monitoring stations have been connected with the server of the Board for real time data transmission.</p> <p>The parameters mostly meet the stipulated norms. Annexure R-11/A4</p>																										<p>Till date M/s OCL India Ltd., (Cement Unit) has not conducted any co-processing in their kiln.</p>

State Pollution Control Board	Grant and Renewal of registration/ authorization Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008 Authorization/ Permission granted for Co-processing of HW in Cement Plants	Emission Monitoring & Compliance Rule 6,18,24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Inventorization of waste Rule 5(6), 8(7) & 22(3) & Schedule VIII r/w Rule 23 of the Hazardous waste Rules, 2008	Training and awareness Schedule VII r/w Rule 23 of the Hazardous waste Rules, 2008	Valid recognition of Environmental Laboratories Section 12 of the EPA, 1986	Identification of site for TSDF Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Compliance with the EIA Notification of 2006
Himachal Pradesh State Pollution Control Board, Shimla R-6	M/s ACC Ltd., Gagal Cement Works, PO Barmana, Distt. Bilaspur (HP) vide letter No. 22851-57 dated 05.02.2014, letter No. 26601-7 dated 24.02.2015 and letter No. 4850-55 dated 26.06.2015 (Copies enclosed at Annexure R-6/A1a)	Latest monitoring of the unit are enclosed at Annexure R-6/A2a	Waste co-processed in the Cement Kiln of M/s ACC Ltd., Gagal Cement Works, Barmana is enclosed at Annexure R-6/A3	Seven nos of officers from the State Board attended the various training programs organised by the CPCB on Hazardous Waste Management (List enclosed at Annexure R-6/A4)	The State Board has applied for the renewal of recognition of its Central Laboratory under EPA act 1986, after the expiry of previous recognition which was valid up to 30-04-2011 (copy enclosed at Annexure R-6/A5)	Duly notified TSDF Facility is in operation in the State since June 2008 at Village Majra, PO Dhabota, Tehsil Nalagarh, Distt. Solan (HP) operated by M/s Shivalik Solid Waste Management Ltd.,	NA
	M/s Ambuja Cement Ltd. (Suli Unit), PO Daralaghat, Tehsil Arki, Distt. Solan (HP) vide letter No. 1851-61 dated 12.05.2015 (Copies enclosed at Annexure R-6/A1b)	Latest monitoring of the unit are enclosed at Annexure R-6/A2b	Waste co-processed in the Cement Kiln of M/s Ambuja Cement Ltd. (Suli Unit), Daralaghat is enclosed at Annexure R-6/A3				NA

State Pollution Control Boards	Grant Renewal registration and authorization /	Emission Monitoring & Compliance	Inventorisation of waste	Training & awareness	Valid recognition of Environmental Laboratories	Identification of site for TSDF	Compliance with the EIA Notification of 2006
Karnataka R-8	CPCB has granted regular permission for co-processing of incinerable Hazardous waste to 7 cement plant in Karnataka and KSPCB has issued the authorization for co-processing. List enclosed as Annexure-R8/A1 . List of industry supplying the incinerable hazardous waste to cement units is enclosed as Annexure-R8/A2 .	Emission monitoring is being carried out by industry by engaging NABL and Environmental Laboratories.	The Board has covered 3,708 hazardous waste generating industries in Karnataka and issued authorization. The estimated quantity of hazardous waste generated has been assessed based on the authorizations issued (considering optimal operating conditions) and classified as under. Recyclable/reprocessable waste : 1,19,802 MTPA. Incinerable waste : 65,725 MTPA. Landfillable waste : 65,362 MTPA	The Board is conducting the awareness programme regularly.	There are three recognized laboratories in Karnataka. List is enclosed as Annexure-R8/A3 .	1. M/s. Ramky Environ Engineers Ltd., are operating the TSDF facility since 2008 on BOOT basis, in Karnataka. The location of the plant is Dabaspet near Bangalore. The Land belongs to the Government and it is a Government project & deed is enter on 01-12-2006 between Government of Karnataka, & M/s. Ramky Infrastructure Ltd, Hyderabad. The capacity of the facility is 8.00 Lakhs MT, expected to operate for 20 years. The land filling site of 25 acres is divided	The Co-processing facility does not need Environmental Clearance as the Rule 11 of the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 empower to grant permission for co-processing by CPCB & SPCB'S. Rule 11 is quoted as under "The utilization of Hazardous wastes as supplementary resource or for energy recovery, or after processing shall be carried out by the units only after obtaining

						<p>into 5 cells of area 5 acres each cell. The filling operation is completed in cell-1, the temporary capping is made. The filling operation is under progress in cell-2.</p> <p>HAZARDOUS WASTE disposed AT TSDF from the date of commissioning up to 31.3.2015 is Total : 1,43,910 MT.</p> <p>2. Mother Earth Environ Tech Pvt Ltd., Plot no 217, KIADB Industrial area, Harohalli, Kanakapura Taluk, Ramanagara Dist, Karnataka has obtained consent for establishment from KPSCB on 04.11.2015 for setting hazardous Waste landfill facility of capacity 95,000 MT/ten year and it is consisting of 2 cells of capacity 50,000 MT and 45,000 MT.</p>	<p>approval from the Central Pollution Control Board".</p>
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State Pollution Control Board	Grant and Renewal of registration/ authorization Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Emission Monitoring & Compliance Rule 6,18,24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Inventorization of waste Rule 5(6), 8(7) & 22(3) & Schedule VIII r/w Rule 23 of the Hazardous waste Rules, 2008	Training and awareness Schedule VII r/w Rule 23 of the Hazardous waste Rules, 2008	Valid recognition of Environmental Laboratories Section 12 of the EPA, 1986	Identification of site for TSDF Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Compliance with the EIA Notification of 2006
Rajasthan State Pollution Control Board. R-13	Granted 44 no. of authorization to 7 Cement Plants (List enclosed Annexure R13/A1) for co-processing	PM, SOx, NOx are being regularly monitored by the State Board. Industries are also submitting monitoring reports from MoEF recognized laboratories for all the parameters.	As per data compiled by State Board during year 2013-14 has hazardous waste for co-processing is approx 34828 MTA based on the data submitted by the industry	Workshop/Training organized with the help of industries association.	State Board do not recognized laboratory, however, three laboratories are recognized in Rajasthan by MoEF. 1. Team Test House, Jaipur. 2. Consulting Engineers Group Jaipur 3. Wolkem Laboratory, Udaipur	1. Rajasthan Waste Management Project, Village Gudli, Teh Mavli, Distt. Udaipur. 2. Balotra Waste Management Project, Plot No. 274/13 & 274/14 Kher Pachpadra Barmer	All the cement plants have obtained environmental clearance for cement production.



TAMILNADU POLLUTION CONTROL BOARD

From

The Chairman
Tamil Nadu Pollution Control Board
76, Mount Salai
Guindy
Chennai n- 600 032.

To

Thiru.PK. Gupta
Addl.Director/SC.E
Central Pollution Control Board.
Ministry of Environment, Forests &
Climate Change. GOI.
Parvesh Bhawan, East Arjun Nagar
New Delhi - 110032

Lr.No.T9/TNPCB/Co-Processing /CPCB/ NGT Order/dated: 15 .02.2016

Sub: TNPCB – Meeting on Co-Processing of wastes in Cement Kiln – Hon'ble
NGT Order – Report furnished – Reg.

Ref: 1. Hon'ble NGT Order dated 21.01.2016
2. CPCB letter No.B-33014/7/2016/PCI- II Dated 01.02.2016 & 08.02.2016
3. Meeting on Co-Processing of wastes in Cement Kiln on 08.02.2016.

Hon'ble NGT in the matter of Shweta Narayan, Vs.Union of India &others
(Original Application no 178 of 2014) has ordered CPCB to convene a meeting with
the Respondent State Pollution Control Boards to discuss certain queries raised and
submit the minutes of the meeting vide reference 1st cited.

In Compliance of the Hon'ble NGT Order, CPCB convened a meeting with the
Respondent State Pollution Control Boards on 08.02.2016. As per the discussion
during the meeting held on 08.02.2016, the following details are submitted for
information the same are sent to CPCB for necessary further action.

1.	Grant and Renewal of Registration / Authorisation	Hazardous Waste Authorisation is issued to Cement Industries for Co – Processing of hazardous wastes for which CPCB has issued permission to the concerned industries and the Copies are enclosed vide Annexure R3/A1
2.	Emission Monitoring & Compliance	Source Monitoring report furnished by M/s ultratech ltd. Reddipalayam cement works, Ariyalur, Tamilnadu is enclosed vide Annexure - R3/A2

76, MOUNT SALAI, GUINDY, CHENNAI - 600 032.

Tel : 22353134, 22353135, 22353136, 22353137, 22353138, 22353139, 22353140, 22353141

Fax : 044-22353068

Email : tnpcb@md3.vsnl.net.in www.tnpcb.gov.in

3.	Inventorisation of Waste	Enclosed vide Annexure - R3/A3
4.	Training and Awareness	Training & Awareness will be given if required.
5.	Valid recognition of Environmental Laboratories.	MOEF&CC accredited laboratories carried out air, water, soil or other substances, source monitoring & other emission studies (Enclosed vide Annexure - R3/A4)
6.	Identification of site for TSDF	TSDF facility is located in Gummdipoodi, Thiruvallur District, Tamilnadu and is under operation and Hazardous wastes are land filled or incinerated.
7.	Compliance with the EIA Notification , 2006	Processing of Hazardous wastes does not require public hearing and also not attracts the provision of EIA Notification 2006. The decision of EC has to be decided by MOEF only.

Encl: As above.

D. Chellu
 For Chairman ^{14/2/16}
 M. S. S. S.
 16.2.2016

BY RPAD

(THIS DOCUMENT CONTAINS 15 PAGES)



Annexure R3/A1

TAMILNADU POLLUTION CONTROL BOARD

AUTHORIZATION NO. 3841 DATED: 11.06.2014.

PROCEEDINGS NO. T10/TNPCB/F-16306/HWM/TRY/2014, DATED: 11.06.2014.

Sub: TNPC BOARD - M/S. ULTRATECH CEMENT LTD.,
(REDDIPALAYAM CEMENT WORKS), Reddipalayam Village,
Ariyalur Taluk, Ariyalur District - Authorization for operating a facility
for Collection / Reception / Treatment / Storage / Transport and
Disposal of Hazardous Waste under 3(b) and 5 (4) of Hazardous
Wastes (Management, Handling and Transboundary Movement)
Rules, 2008 enacted under Environment (Protection) Act, 1986.

- Ref: 1. Proceedings No. T10/ TNPCB / F-16306/ HWM/ TRY/ 2013,
Dated: 02.06.2013.
2. Proceedings No. T10/ TNPCB / F-16306/ HWM/ TRY/ 2013,
Dated: 10.01.2014.
3. Letter No.B-33014/2013/PC-I-II/ Dated: 20.01.2014.
4. IR.No.ARY0006/ RL/ DEE/ ARY/ HWM/ 2014 Dated: 11.03.2014.
5. Letter No. JCEE/ TNPCB/ TRY/ F-TRY-06/ RL/ 2013
Dated: 15.05.2014.

In accordance with (Management, Handling and Transboundary Movement) Rules,
2008 authorization is issued to

The Director,
M/S. ULTRATECH CEMENT LTD.,
(REDDIPALAYAM CEMENT WORKS),
Reddipalayam Village,
Ariyalur Taluk,
Ariyalur District.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

He shall handle hazardous wastes as specified below:

Sl. No	Details of process generating hazardous waste as listed in column 2 of Schedule 1 of the amended rules / class of waste as per Schedule 2	Details of Waste Stream as indicated in column 3 of Schedule 1 / Identity of waste as per Schedule 2	Quantity generated / handled	Activity for which authorization is issued
1	21. Production and / or industrial use of paints, pigments lacquers, varnishes, plastic and inks	21.1 Process wastes, residues & sludge's	70 T/Day	Reception, Storage, and Disposal for co processing in cement kiln.
2	4. Petroleum refining/ re-processing of used oil/recycling of waste oil	4.1 Oily sludge/emulsion	70 T/Day	Reception, Storage, and Disposal for co processing in cement kiln.
3	5. Industrial operation using mineral synthetic oil as lubricant in hydraulic system or other application	5.2 1)Wastes/residues containing oil 2) Oil soaked cotton waste from automobile industries	147 T/Year 500 T/Year	Reception, Storage and Disposal for co processing in cement kiln.
4	34. Purification and treatment of exhaust air, water and waste water from the process in this schedule and common effluent treatment plants (CETP's)	CETP/IETP sludge of textile industry	350 T/Day	Reception, Storage, and Disposal for co processing in cement kiln.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

5		34.3 - Chemical Sludge from automobile industries	120 T/day	Reception, Storage, and Disposal for co processing in cement kiln.
6		34.3 Phosphate Sludge from automobile industries	120 T/day	Reception, Storage, and Disposal for co processing in cement kiln.
7	36. Hazardous waste treatment, processes eg, incineration, distillation, separation and concentration techniques	36.4-Green mesh with Resin	100 T/day	Reception, Storage, and Disposal for co processing in cement kiln.

The authorization is issued subject to the terms and conditions specified in Form-2 and special conditions annexed.

Sd-xxx
Member Secretary

//Forwarded by Order//

R. Chelvan
3/6/14
For Member Secretary



TAMILNADU POLLUTION CONTROL BOARD

FORM - 2

(See rule 3(C) and 5(5))

**FORM FOR GRANT OF AUTHORIZATION FOR OCCUPIER OR OPERATOR HANDLING
HAZARDOUS WASTES**

1. Number of authorization and date of issue 3841 Dated: 11.06.2014.
2. M/s. Ultratech Cements Ltd., (Reddipalayam Cement Works) is hereby granted and authorization to operate as facility for collection, reception, treatment, storage, transport and disposal of hazardous waste on the premises situated at Reddipalayam Village, Ariyalur Taluk, Ariyalur District.
3. The authorization is granted to operate a facility for collection, reception, treatment, storage, transport and disposal of hazardous wastes.
4. The authorization shall be in force for a period of 5 (Five) years from the date of issue.
5. The authorization is subject to the conditions stated below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

Dated: 11.06.2014

**Sd-xxx
Member Secretary**

//Forwarded by Order//

R. Chelvanayagam
For Member Secretary

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

Terms and conditions of authorisation:

1. The authorisation shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board or Committee.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the State Pollution Control Board or Committee.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorisation.
5. It is the duty of the authorized person to take prior permission of the (State Pollution Control Board or Committee) to close down the facility.
6. An application for the renewal of an authorization shall be made as laid down in rule 5(6)(ii)
7. The unit shall ensure that the waste characteristics should be similar to that for which trial run have been conducted by CPCB.
8. For transportation of proposed hazardous wastes for co processing in cement kiln, manifest system as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008 and guidelines of CPCB shall be followed.
9. The generator of hazardous waste shall obtain authorization from TNPCB as required under per Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008 for storage, transportation and co processing of hazardous wastes in cement plant.
10. The unit shall estimate the quantity of hazardous waste required to be co processed and the actual quantity of hazardous waste co processed in each calendar year shall be reported to the Board and CPCB.
11. The unit shall provide adequate covered storage space for the hazardous waste in accordance with Hazardous Waste Rules and ensure that there is no leaching of any pollutant.
12. During co processing the unit shall ensure that emissions are not exceeding the base line emissions measured at normal operation of the cement kiln (without co processing).

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

13. The unit shall monitor the particulate matter emissions continuously; HCL, SO₂, CO, Total Organic Carbon, HF, NO_x, Cd, Th & its compounds, Hg & its compounds, Sb, As, Pb, Co, Cr, Cu, Mn, Ni, V & its compounds half yearly total Dioxins and Furans annually and furnish the report to the Board.
14. The unit shall maintain log book for the waste co processed including emission monitoring results during co processing.
15. During co processing, the unit shall comply with all the requirements in accordance with the Public Liability Insurance Act 1991 as amended.
16. The unit shall ensure the compliance of the conditions stipulated in the consent order issued under Water Act 1974 and Air Act 1974 during co processing of hazardous waste.
17. The unit shall ensure that textile sludge should not be stored outside the closed shed and no leachate is generated at any point of time.
18. The generator of the hazardous waste (textile sludge) shall obtain authorisation from the Board under Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 for Co-processing of Hazardous Waste in Cement kiln.
19. The unit shall procure the Hazardous Waste only from authorized generator.
20. In case of any violation in the conditions stipulated, the permission shall be withdrawn at any time
21. Tamil Nadu Pollution Control Board reserves the right to review / impose additional conditions of revoke, change or alter any of the terms and conditions.
22. The unit shall periodically analyse furans and dioxins and submit the report of analysis to Board.
23. The unit shall comply with the conditions imposed by Central Pollution Control Board vide permission B-33014/2013/PCI-II Dated 20.01.2014.

Sd-xxx
Member Secretary

To
The Director,
M/s. Ultratech Cements Ltd.,
(Reddipalayam Cement Works),
Reddipalayam Village, Ariyalur Taluk,
Ariyalur District - 627104.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

Copy to

1. The Joint Chief Environmental Engineer (Monitoring),
Tamil Nadu Pollution Control Board,
Trichy.
2. The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
Ariyalur District.
3. BMS.
- ✓ 4. Spare.

//Forwarded by Order//

A. Chinn
13/6/14
For Member Secretary

SPECIAL CONDITIONS

PART - 1

ON SITE GENERAL STORAGE REQUIREMENTS

1. Any increase in quantity change in category handling operations shall be brought to the notice of the Board and fresh authorization is to be obtained.
2. The unit may store hazardous waste on site for a maximum period of 90 days a maximum quantity of 10,000kgs or a truck load whichever is less.
3. The unit shall not store the hazardous waste on open ground. It shall be stored in closed containers in an isolated area earmarked for the purpose within the premises (it shall not be accessible to rain water)
4. The unit shall mark each container holding the hazardous wastes with marking "Hazardous Wastes" both in English and Tamil. The containers shall be labeled as per the rules prescribed in Motor Vehicles Rules, 1989.
5. The storage area should be fenced properly and a sign of danger should be placed at the storage site.
6. The containers holding the hazardous wastes should be kept in good condition and made of materials which can withstand the physical and environmental conditions during storage and transportation.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

7. The unit shall provide requisite safety devices like safety mask, goggles, hand gloves, gumboots, fire fighting systems and maintain the same in working condition.
8. The containers holding the hazardous waste should be closed with lids during storage, except when it is necessary to add or remove wastes.
9. Only properly cleaned containers should be used for storage of hazardous wastes.
10. The unit shall notify to the Tamilnadu Pollution Control Board in Form -1 at least once in 90 days as per the permitted on site storage period regarding the quantity of waste generated and total accumulated quantity. A containment system should be provided at the area of storage of hazardous waste within three months from the date of issue of authorization. It shall be designed and operated as follows.
 - a) The base underlying the containers should be constructed in such a way that it is free of cracks or gaps and it is sufficiently impervious to contain leaks spills and accumulated precipitation until the collected material is detected and removed.
 - b) The system should be designed and operated to drain and remove liquids which may result from leak, spillage or precipitation unless the containers are elevated or otherwise protected from contact with accumulated solids.
 - c) The containment system should have sufficient capacity to contain 10% of the volume of containers or the largest container whichever is greater. Containers that do not contain free liquids need not be considered in this determination.
 - d) Run-on into the containment systems should be prevented unless the collection system has sufficient excess capacity in addition to that mentioned in paragraph (c) of this section to contain any run-on which might enter the system.
 - e) The containment should have a sump to collect any leak, spillage or precipitation. Spilled or leaked waste and accumulated precipitation should be removed from sump or collection area timely as it is necessary to prevent overflow of the collection system.
11.
 - a) Containers holding ignitable or reactive waste should be stored at least 15meters (50feet) away from the plant operational area. "No Smoking" signs should be placed conspicuously wherever ignitable or reactive waste is stored.
 - b) Container holding the wastes other than ignitable or reactive should be stored at least 6meters (20feet) away from the plant operation area.
12. Special Requirement for Non-compatible Wastes:
Non- Compatible hazardous wastes and materials should not be mixed in the same transportation or storage container.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

Hazardous wastes should not be placed in an unwashed container that previously held any chemical material or non-compatible wastes. A storage container holding hazardous waste that is non-compatible with any waste or other materials stored nearby in other containers, piles, open tanks or surface impoundments should be separated from other materials or protected from them by means of a dike, beam, wall or other suitable devices.

13. The unit shall analyze the hazardous wastes for the parameters such as specific gravity, percentage solids, chemical composition, flash point, reactivity, toxicity, explosivity, calorific value and bio-degradability whichever is applicable. In addition the leachate generated shall also be analyzed. The report of analysis is to be maintained at the facility.

PART - II

GENERAL PACKAGING REQUIREMENTS

1. Packaging materials and contents shall be such that there will be no significant chemical and galvanic reaction among any of the materials in the package.
2. The closing system shall be adequate enough to prevent inadvertent leakage of contents under normal conditions incident to transportation.
3. Each container must be with its filling holes up and it should be marked "THIS SIDE UP" to indicate the upward position of closures.
4. The packaging should be secure enough to prevent leaks, spills and vapouration during transportation. The hazardous wastes shall be stored in clamp-lid containers. The container should be coated in black paint.
5. It shall be ensured that whenever hazardous wastes are offered for transportation the containers are marked specified under Special Condition 4 of Part -1.
6. a) Containers used more than once(refilled and reshipped after having previously emptied) must be in such condition that they comply in all respects with the prescribed requirements as specified under Special condition 1,2 and 3 above.
b) Containers previously used for any hazardous materials having old marking and labels must be thoroughly removed or obliterated before being reused for storing hazardous wastes.
c) Containers specified for single trip and non-reusable containers from which contents have been removed must not be used for transportation of hazardous wastes.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

- d) Each container must be thoroughly cleaned to remove all residues and foreign matters, inspected for defects and deterioration. All closing devices and parts must be removed (if possible), inspected for defects and replaced if necessary.

PART - III

TRANSPORTATION REQUIREMENTS

1. The unit shall follow the guidelines for transportation as detailed below:
 - a) Containers offered for transportation are to be checked for their suitability and properly labeled as per Motor Vehicle Act, 1988 and rules 1989.
 - b) Ignitable, reactive or non-compatible hazardous wastes may not be transported along with other wastes.
 - c) Approximate number of portable fire extinguishers, safety goggles, gum boots, hand gloves, first aid kits etc., shall be provided.
 - d) Adequate training to the drivers and helpers regarding handling and transportation requirements of hazardous wastes should be provided.
 - e) Necessary special lining, cushioning, shock absorbers etc to be provided to all vehicles engaged in transporting hazardous wastes.
2. Transportation to be done without any delay to deliver the hazardous wastes to the designated facility.
3. Records pertaining to transportation of hazardous waste shall be maintained.
4. In an event of accidental spillage of hazardous waste during transit, the driver of the vehicle should follow the instructions issued in TREM card. Also he should intimate the fact immediately to fire brigade station, Police/District authorities about the nature of the accident wherever necessary.
5. The unit is responsible for taking appropriate steps to clean up spillage occurring during transit as specified in TREM card.
6. Onsite Emergency Plan to be prepared and furnished to Tamil Nadu Pollution Control Board for storage and transportation of wastes.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

PART - IV

RECORD KEEPING AND REPORTING

1. Complete record of collection, reception, treatment, storage and disposal of the hazardous waste shall be maintained in Form -3. The records shall be produced to the inspecting officer of the Board as and when required.
2. Annual returns for the facility shall be sent to the Board in Form-4.
3. Any occurrence of accident has to be communicated to the Board in Form-14.
4. Containers holding hazardous waste should be marked as per form 12.
5. Disposal of hazardous waste shall be carried out by operating the manifest in form -13.
6. All consignments of hazardous wastes shall be transported with transport emergency card as specified in Form -11.

Sd-xxx
Member Secretary

//Forwarded by Order//

R. Subramanian
13/6/14
For Member Secretary



TAMILNADU POLLUTION CONTROL BOARD

SCHEDULE - A

See rule 3(c) and 5 (5)

(FORM FOR GRANT OF AUTHORIZATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES)

1. The industry shall comply with the provisions of the Environment (Protection) Act, 1986 and the Rules hereunder.
2. The Authorization or its renewal shall be produced for inspection at the request of any officer authorized by the State Pollution Control Board.
3. Any unauthorized change in personnel, equipment and working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
4. An application for the renewal for the authorization shall be made as laid down in Rule 5 (G) (II) at least 30 days before the date of expiry of authorization.
5. TNPCB shall renew the authorization after examining the each case on merit subject to the followings:-
 - i. On submission of annual return by the occupier or operator of a facility in Form-IV
 - ii. On evidence of reduction in the waste generation of recycled or reused and
 - iii. On fulfilment of conditions prescribed in the authorization regarding management of waste in an environmentally sound manner.
6. All the hazardous wastes should be stored in a secured way so that they do not cause leachate problem or are carried away with run off water during rains.
7. The occupier shall demarcate secured storage area with a sign board including the name of hazardous waste.
8. First Aid box, Masks, Fire control equipment and other safety devices shall be provided to meet emergency situations.
9. The occupier shall educate the workers and nearby public of possible accidents and remedial measures.
10. For any accident or spillage of hazardous wastes causing damage to the Environment, the occupier or the transporter as the case shall be held responsible.
11. In case of closure of industry, the unused not consumed raw materials falling under the category of Hazardous Chemicals Rules, 1989 and Amendment Rules, 2000 shall be removed and sold to other units within 90 days from the date of closure to prevent any possibility of occurrence of an accident. In case the above hazardous chemicals

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

have lost their properties originally required, then they shall be treated as Hazardous Waste and they should be disposed off only to the authorized agencies of TNPCB as in a safe manner.

12. The occupier shall prepare/update an emergency preparedness plan for safe handling or hazardous waste from time to time and submit the same to TNPCB. Emergency preparedness plan must be implemented immediately whenever there is fire, explosion or release of hazardous waste or hazardous waste constituents, which could endanger to human health or environment.
13. The occupier shall maintain inventory of hazardous wastes, in FORM-3 of the Hazardous Waste Management Rules, 2008.
14. The occupier shall submit annual return to TNPCB in FORM -4 of the Hazardous Waste Management Rules, 2008.
15. The occupier shall submit information on any accidents that have occurred in handling of hazardous waste to TNPCB in FORM -5 of the Hazardous Waste Management Rules, 2008.
16. The occupier or operator of facility shall ensure that the Hazardous Wastes are packed based on the composition in a manner suitable for handling storage and transport and labeled accordingly. The labelling and packing shall be clearly visible and be able to withstand physical conditions and climatic factors.
17. Packaging, labelling and transport of Hazardous Wastes shall be in accordance with the provisions of the rules issued by the Central Government under the Motor Vehicles Act, 1988 and other guidelines issued from time to time. The packaging and labeling shall be based on the composition and hazardous constituent of the waste, however all Hazardous Wastes containers should be provided with a general label.
18. A driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of emergency during transit. The transporter shall carry a Transport Emergency (TREM) card (as given in the guidelines for management and handling of hazardous wastes) duly filled by the Hazardous Waste generator.
19. Any Environment damage due to indiscriminate disposal of hazardous Waste shall be assessed by the appropriate authority. The cleanup costs shall be recovered from the generator/Operator/Occupier/ transporter of the said Hazardous Wastes.
20. The industry shall maintain the 'Six copy Manifest System' for the movement of wastes. "The manifest copies should be furnished to the TNPCB, Guindy, Chennai-32 under intimation to the concerned District Office.

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு! - 52 -



TAMILNADU POLLUTION CONTROL BOARD

21. Safe/Secure storage facility should be provided to all recyclable solids/liquids till they are processed.
22. Industry should maintain good housekeeping with respect to all solid wastes, liquid wastes and effluents.
23. No hazardous Waste shall be mixed with any other waste or shall be discharged to a common, other internal, external sewerage or other drainage system without prior approval of TNPCCB.
24. If HDPE bags are used for storing Hazardous Wastes, it should be ensured that they are perfectly sealed mechanically or double hot sealed.
25. If MS/HDPE bags are used for storing Hazardous Wastes, the drums/bags should be ensured that they are perfectly sealed.
26. The Hazardous Wastes packed in HDPE bags or MS/Plastic drums should be stored in a covered shed on a raised platform with leachate management system
27. The industry shall follow the Guidelines for setting up of operating facility for Hazardous Waste management published by CPCB (documents series Hazardous/II/98-99).
28. Tamil Nadu Pollution Control Board reserves the rights to review, impose additional condition or conditions, revoke, change or alter the terms and conditions of this authorization. Also the Board reserves the right to withdraw the authorization without any prejudice/Notice on receiving any complaints by the Board regarding Environmental Pollution problems caused by the Industry.
29. The person authorized shall not rent, lead, sell transfer their industries premises without obtaining prior permission of State Pollution Control Board.
30. The authorized person shall take prior permission of the State Pollution Control Board to close down their Hazardous Waste facility.
31. The industry shall dispose/sell recyclable wastes such as waste/used oil, used lead acid batteries and non ferrous metal scrap to only the Agencies/Industries with are having valid Authorization of TNPCCB and valid registration of CPCB, GOI.
32. The industry shall comply with the provisions of Batteries (Management and Handling) Rules, 2001.

//Forwarded by order//

Sd/- xxx
Member Secretary

R. Chinn
13/6/14
For Member Secretary

POLLUTION PREVENTION PAYS
அகம் தூய்மை வாய்மைக்கு! புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

SCHEDULE -B

See rule 3(c) and 5 (5)

(FORM FOR GRANT OF AUTHORIZATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES)

1. Industry shall give top priority to waste minimization and cleaner production practices. Industry shall submit action plan for minimization of hazardous wastes within three months from the date of issue of the authorization.
2. Industry shall dispose the hazardous wastes (mentioned in Form-2) to only the recycling industries, which have registered with Ministry of Environment and Forests, Government of India as "Actual user with ESM. If the waste is disposed to industries which are not having valid authorization of TNPCB and not registered with CPCB, GOI then, industry is liable for legal action under Environment (Protection) Act.
3. Industry shall maintain good housekeeping & maintain proper records for Hazardous Wastes stated in Authorization (Form-2).
4. The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule A and Schedule B of this Authorization half-yearly basis to Board Office, Chennai and concerned District Offices.

Sd/- xxx
Member Secretary

//Forwarded by order//

D. Chinn
13/6/14
For Member Secretary

By RPAD



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TAMILNADU POLLUTION CONTROL BOARD

Proc.No. T10/ TNPCB / F-HW 2 /HWM/ ARY/ 2014 Dated: 01.12.2014.

Sub: TNPCB - Industries - M/s. Ultratech Cements Ltd (Reddipalayam Cement Works), Reddipalayam Village, Ariyalur Taluk, Ariyalur District - Amendment issued under Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 enacted under the Environment (Protection) Act, 1986 - Reg.

- Ref:**
1. Proceeding No : T10/ TNPCB / F-16306/HWM/ TRY/ 2014, Dated: 11.06.2014
 2. CPCB Letter No.2014/AT-CP/RP/PCI- II /5255 Dated : 21.08.2014
 3. Unit's Application Dated: 20.09.2014.
 4. IR.No.ARY0006/RL/JCEE/TRY/HWM/2014 Dated:31.10.2014

The unit of M/s. Ultratech Cements Ltd (Reddipalayam Cement Works), Reddipalayam Village, Ariyalur Taluk, Ariyalur District has obtained the authorisation under Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 enacted under the Environment (Protection) Act, 1986 to handle the hazardous Wastes under reference first cited.

CPCB has granted permission for co-processing of certain hazardous Wastes in the cement kiln of M/s. Ultratech Cements Ltd (Reddipalayam Cement Works), Reddipalayam Village, Ariyalur Taluk, Ariyalur District vide reference 2nd cited.

Joint Chief Environmental Engineer (Monitoring) Trichy in his report cited vide reference 4th cited has recommended for the issue of amendment to the authorisation already obtained by the unit under the Hazardous Wastes (Management Handling and Transboundary Movement) Rules, 2008.

Therefore, as per Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 enacted under the Environment Protection Act 1986, the unit shall handle the hazardous wastes as specified below and subject to the conditions imposed by CPCB dated 21.08.2014 and subject to the following conditions.



TAMILNADU POLLUTION CONTROL BOARD

1. The industries which supply hazardous wastes for co-processing of hazardous wastes to M/s. Ultratech Cements Ltd (Reddipalayam Cement Works), shall obtain hazardous waste authorisation from Board.
2. The unit shall sign a MOU with the Hazardous Waste suppliers units on the responsibility in case of spills, accident etc during transit (Loading, transport and unloading) and furnish a copy to Board and District office before transportation.
3. He shall handle Hazardous waste as specified below.

Sl.No	Details of process generating hazardous waste as listed in column 2 of Schedule 1 of the amended rules / class of waste as per Schedule 2	Details of Waste Stream as indicated in column 3 of Schedule 1 / identity of waste as per Schedule 2	Quantity generated / handled	Activity for which authorization is issued
1	21.Production and/or industrial use of paints, pigments lacquers, varnishes, plastic and inks	21.1 Process wastes, residues & sludges	70 T/Day	Reception, Storage, and Disposal for co processing in cement kiln
2	4.Petroleum refining/ re-processing of used oil/recycling of waste oil	4.1 Oily sludge/emulsion	70 T/Day	Reception, Storage, and Disposal for co processing in cement kiln.

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்வைத் த' புறம் தூய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

3	5. Industrial operation using mineral synthetic oil as lubricant in hydraulic system or other application	5.2 1)Wastes/residues containing oil 2)Oil soaked cotton waste from automobile industries	147 T/Year 500 T/Year	Reception, Storage and Disposal for co processing in cement kiln.
4	34. Purification and treatment of exhaust air, water and waste water from the process in this schedule and common effluent treatment plants (CETP's)	CETP/IETP sludge of textile industry	350 T/Day	Reception, Storage, and Disposal for co processing in cement kiln.
5	34. Purification and treatment of exhaust air, water and waste water from the process in this schedule and common effluent treatment plants (CETP's)	34.3 - Chemical Sludge from automobile industries	120 T/day	Reception, Storage, and Disposal for co processing in cement kiln.
6	12. Metal surface treatment, such as etching, staining, polishing, galvanizing, cleaning, degreasing, plating etc.	12.5 Phosphate Sludge from automobile industries.	120 T/day	Reception, Storage, and Disposal for co processing in cement kiln.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

7	36. Hazardous waste treatment, processes eg. incineration, distillation, separation and concentration techniques	36.4- Green mesh with Resin	100 T/day	Reception, Storage, and Disposal for co processing in cement kiln.
8	28. Production/formulation of drugs/pharmaceuticals & health care product 35. Purification process for organic compounds/solvents	28.2 & 35.3 spent carbon of pharmaceutical Industries	500 T/Month	Reception, Storage, and Disposal for co processing in cement kiln.
9	34. Purification and treatment of exhaust air, water and waste water from the process in this schedule and common effluent treatment plants (CETP's)	34.2 ETP Bio solid from soft drink industries	500 T/Month	Reception, Storage, and Disposal for co processing in cement kiln.
10	34. Purification and treatment of exhaust air, water and waste water from the process in this schedule and common effluent treatment plants (CETP's)	34.2 WTP Sludge from soft drink industries	500 T/Month	Reception, Storage, and Disposal for co processing in cement kiln.

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

11	34. Purification and treatment of exhaust air, water and waste water from the process in this schedule and common effluent treatment plants (CETP's)	34.2 Spent carbon from soft drink industries	500 T/Month	Reception, Storage, and Disposal for co processing in cement kiln.
12	28. Production/formulation of drugs/pharmaceuticals & health care product 20. Production and /or industrial use of solvents	28.5 & 20.2 Liquid organic spent solvent of pharmaceutical Industries	750 T/Month	Reception, Storage, and Disposal for co processing in cement kiln.
13	28. Production/formulation of drugs/pharmaceuticals & health care product 20. Production and/ or industrial use of solvents	28.5 & 20.2 Solid organic spent solvent of pharmaceutical Industries	750 T/Month	Reception, Storage, and Disposal for co processing in cement kiln.

All other conditions stipulated vide reference first cited remains unaltered.
The receipt of this proceeding may be acknowledged.

R. Chokkan
14/12/14
For Member Secretary
RD
11/12/14

To

The Executive Vice President & Unit Head,
M/s .UltraTech Cements Ltd
(Reddipalayam Cement Works.),
Reddipalayam Village, Ariyalur Taluk,
Ariyalur District - 627104

Copy to

1. The Joint Chief Environmental Engineer (Monitoring),
Tamil Nadu Pollution Control Board,
Trichy
2. The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
Ariyalur District.
3. BMS

POLLUTION PREVENTION PAY
TAMIL NADU POLLUTION CONTROL BOARD

RPAD

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TAMILNADU POLLUTION CONTROL BOARD

AUTHORIZATION NO. 4088 DATED: 09.12.2013.

PROCEEDINGS NO.T10/TNPCB/HWM/F-4590/CBS/2013 DATED: 09.12.2013

Sub: TNPC BOARD – M/S. ACC LTD., MADUKKARAI CEMENT WORKS,
Madukkarai Village, Coimbatore South Taluk, Coimbatore District -
Authorization for operating a facility for Collection / Reception / Treatment /
Storage / Transport and Disposal of Hazardous Waste under 3(b) and 5 (4) of
Hazardous Wastes (Management, Handling and Transboundary Movement)
Rules, 2008 enacted under Environment (Protection) Act, 1986.

Ref: Application No. Nil Dated: 16.09.2013 from M/s. ACC Ltd.

IR.No.JCEE/TNPCB/CBE/F.016/HWM/2013 Dated: 24.09.2013.

In accordance with (Management, Handling and Transboundary Movement) Rules, 2008
authorization is issued to

The Director Plant ,

M/S. ACC LTD., MADUKKARAI CEMENT WORKS,

He shall handle hazardous wastes as specified below:

Sl. No	Details of hazardous waste	Details of waste stream as indicated in Col.3 of Schedule 1 / Identity of waste as per schedule 2.	Quantity generated/ handled.	Activity for which authorization is issued
1	1	1.2 Tarry residues	10 T/Annum	Reception, Storage and disposal (co-processing).
2	4	4.1 Oily Sludge and Emulsion (Refinery sludge)	10 T/Annum	Reception, Storage and disposal (co-processing).
3	21	21.1 Wastes and Residues (Paint Sludge)	1000 T/ Annum	Reception, Storage and disposal (co-processing).

POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

4	34	34.3 Chemical sludge Activated sludge from waste water treatment	1200 T/ Annum	Reception, Storage and disposal (co-processing).
5	--	Tyre Chips	10 T/ Annum	Reception, Storage and disposal (co-processing).
6	34	34.3 Chemical sludge from waste from waste water treatment of the unit of M/s. TANFAC Industries Ltd., Cuddalore.	3600 T/ Annum	Reception, Storage and disposal. (co-processing).
7	12	12.9 ETP Chemical sludge	600 T/ Annum	Reception, Storage and disposal (co-processing).
8	12	12.5 Phosphate sludge	180 T/ Annum	Reception, Storage and disposal (co-processing)..
9	35	35.1 Oil rags	50 T/ Annum	Reception, Storage and disposal(co-processing)..
10	36	36.4 Poly residue	6.2 T/day	Reception, Storage and disposal(co-processing)..
11	36.1	36.4 FRP waste(Green mesh with resin)	2000 T/ Annum	Reception, Storage and disposal(co-processing)..
12	5	5.2 Grinding Dust (Rolling bearing and Seal Industry)	1000 T/ Annum	Reception, Storage and disposal(co-processing)..
13	34	34.3-ETP Bio-Solids (Soft drink Industries)	1000 T/ Annum	Reception, Storage and disposal(co-processing)..
14	5	5.2-Grinding Muck (Textile machine manufacturing Industries)	50 T/ Annum	Reception, Storage and disposal(co-processing)..
15	5	5.2-Oily Rags (Automobile Industries)	100 T/ Annum	Reception, Storage and disposal(co-processing)..
16	34	34.3-Spent carbon (Soft drink Industries)	1000 T/ Annum	Reception, Storage and disposal (co-processing)..
17	34	34.3-WTP sludge (Soft drink Industries)	1000 T/ Annum	Reception, Storage and disposal (co-processing)..

POLLUTION PREVENTION PAYS

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18	23	23.1-Waste/Residue(Sludge from process)from M/s. Petro Araldite Ltd.	60 T/ Annum	Reception, Storage and disposal (co-processing)..
19	35	35.1-Filters & Filter materials from M/s. Petro Araldite Ltd	70 T/ Annum	Reception, Storage and disposal (co-processing)..
20	29	29.1-Process waste/Residue from M/s. Tagros Chemicals India Ltd.	450 T/ Annum	Reception, Storage and disposal (co-processing)..
21	5	5.1-Used oil	30.6 KL / Annum	Collection, Storage and disposal to Authorised/Registered recyclers.
22	33	33.3-Discarded barrels/containers	25 T/Annum	Collection, Storage and disposal to Authorised recyclers.

The authorization is issued subject to the terms and conditions specified in Form-2 and special conditions annexed.

Sd-xxxx
Member Secretary

// Forwarded by Order//

R. Chidambaram
For Member Secretary
12/12/11

BY RPAD

(This document contains 15 pages)



TAMILNADU POLLUTION CONTROL BOARD

AUTHORIZATION No.3906/09.11.2010 Dated:29.01.2015

PROCEEDINGS No.T3/TNPCB/F 19120/ARY/HWM/2015, Dated:29.01.2015.

Sub: Tamil Nadu Pollution Control Board – Industries – M/s. DALMIA CEMENT BHARAT LTD -Cement Plant, S.F.No.218/5A2, 219/1A1, 219/1A2, 219/1A, Govindapuram Village, Ariyalur Taluk, Ariyalur District - Authorization for operating a facility for Collection/Storage/ Transport and Disposal of Hazardous Wastes under Rule 3(b) and 5(4) of Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 enacted under Environment (Protection) Act, 1986.

- Ref:** 1. Bd's Proc. No. T6/TNPCB/F.19120/TRY/HWM/28/2010, Dated 09.11.2010.
2. Application received on 04.12.2014.
3. IR.No.: F.ARY0014/RL/JCEE/ARY/HWM/2014,Dated: 04.12.2014.

In accordance with Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008, authorization is issued to

The Executive Director

M/s.DALMIA CEMENT BHARAT LTD-CEMENT PLANT,

S.F.No.218/5A2,219/1A1,219/1A2,219/1A,

Govindapuram Village, Ariyalur Taluk,

Ariyalur District



TAMILNADU POLLUTION CONTROL BOARD

He shall handle hazardous wastes as specified below.

Sl. No.	Details of process generating hazardous waste as listed in column 2 of Schedule 1 of the amended rules/class of waste as per Schedule 2	Details of Wastes Stream as indicated in column 3 of Schedule 1 / identity of waste as per Schedule 2	Quantity generated/handled per year	Activity for which authorization is issued
1.	<u>5</u> Industrial operations using mineral/ synthetic oil as lubricant in hydraulic systems	<u>5.1</u> Used / Spent oil	47500kg/year	Collection, Storage, Transport and Disposal to authorized /registered recyclers
2.	Solid Waste Mix obtained from M/s. Gujarat Enviro Protection And. Infrastructure Limited (GEPIL), Ranipet, Tamilnadu.	Solid Waste Mix	46T/day	Collection, Storage, and Disposal for Coprocessing in the Cement kiln.

The authorization is issued subject to the terms and conditions specified in Form 2 and special conditions annexed.

Sd/-xxxx
Member Secretary

//Forwarded by Order//

P. J. H. S. S.
For Member Secretary
Mary
2-1-2015

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POLLUTION PREVENTION PAYS

அகம் தாய்மை வாய்மைக்கு! புறம் தாய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

FORM 2

(See rule 5 (4))

FORM FOR GRANT OF AUTHORIZATION FOR OCCUPIER OR OPERATOR FOR HANDLING HAZARDOUS WASTES

1. Number of authorization and date of issue 3906/09.11.2010 , Dated:29.01.2015.
2. The Executive Director of M/s.Dalmia Cement Bharat Ltd-Cement Plant, is hereby granted an authorization for collection, storage, transport and disposal of hazardous wastes generated by the unit at S.F.No.218/5A2,219/1A1,219/1A2,219/1A, Govindapuram Village, Ariyalur Taluk, Ariyalur District.
3. The authorization is granted to operate a facility for generation, collection, storage, transport and disposal of hazardous wastes.
4. The authorization shall be in force for a period up to **08.11.2015** from the date of issue.
5. The authorization is subject to the conditions stated below and such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

Dated:29.01.2015

Sd/-xxxx
Member Secretary

//Forwarded by Order//

P. S. H. S.
For Member Secretary
MAYU
2.2.2015



TAMILNADU POLLUTION CONTROL BOARD

TERMS AND CONDITIONS OF AUTHORIZATION:-

1. The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board or Committee.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the State Pollution Control Board or Committee.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
5. It is the duty of the authorized person to take prior permission of the (State Pollution Control Board or Committee) to close down the facility.
6. An application for the renewal of an authorization shall be made as laid down under these Rules.
7. Any other conditions for compliance as per the Guidelines issued by the MoEF or CPCB.

Conditions (8) to (18) attached vide ANNEXURE - 1.

SPECIAL CONDITIONS

PART - 1

ON SITE GENERAL STORAGE REQUIREMENTS

1. Any increase in quantity change in category handling operations shall be brought to the notice of the Board and fresh authorization is to be obtained.
2. The unit may store hazardous waste on site for a maximum period of 90 days a maximum quantity of 10,000kgs or a truck load whichever is less.
3. The unit shall not store the hazardous waste on open ground. It shall be stored in closed containers in an isolated area earmarked for the purpose within the premises(it shall not be accessible to rain water)
4. The unit shall mark each container holding the hazardous wastes with marking "Hazardous Wastes" both in English and Tamil. The containers shall be labeled as per the rules prescribed in motor Vehicles Rules, 1989.

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POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

5. The storage area should be fenced properly and a sign of danger should be placed at the storage site.
6. The containers holding the hazardous wastes should be kept in good condition and made of materials which can withstand the physical and environmental conditions during storage and transportation.
7. The unit shall provide requisite safety devices like safety mask, goggles, hand gloves, gumboots, fire fighting systems and maintain the same in working condition.
8. The containers holding the hazardous waste should be closed with lids during storage, except when it is necessary to add or remove wastes.
9. Only properly cleaned containers should be used for storage of hazardous wastes.
10. The unit shall notify to the Tamilnadu Pollution Control Board in Form -1 at least once in 90 days as per the permitted on site storage period regarding the quantity of waste generated and total accumulated quantity. A containment system should be provided at the area of storage of hazardous waste within three months from the date of issue of authorization. It shall be designed and operated as follows.
 - a) The base underlying the containers should be constructed in such a way that it is free of cracks or gaps and it is sufficiently impervious to contain leaks spills and accumulated precipitation until the collected material is detected and removed.
 - b) The system should be designed and operated to drain and remove liquids which may result from leak, spillage or precipitation unless the containers are elevated or otherwise protected from contact with accumulated solids.
 - c) The containment system should have sufficient capacity to contain 10% of the volume of containers or the largest container whichever is greater. Containers that do not contain free liquids need not be considered in this determination.
 - d) Run-on into the containment systems should be prevented unless the collection system has sufficient excess capacity in addition to that mentioned in paragraph (c) of this section to contain any run-on which might enter the system.



TAMILNADU POLLUTION CONTROL BOARD

e) The containment should have a sump to collect any leak, spillage or precipitation. Spilled or leaked waste and accumulated precipitation should be removed from sump or collection area timely as it is necessary to prevent overflow of the collection system.a)

11.a)Containers holding ignitable or reactive waste should be stored at least

15meters (50feet) away from the plant operational area. "No Smoking" signs should be placed conspicuously wherever ignitable or reactive waste is stored

b)Container holding the wastes other than ignitable or reactive should be stored at least 6meters (20feet) away from the plant operation area.

12. Special Requirement for Non-compatible Wastes:

Non- Compatible hazardous wastes and materials should not be mixed in the same transportation or storage container.

Hazardous wastes should not be placed in an unwashed container that previously held any chemical material or non-compatible wastes. A storage container holding hazardous waste that is non-compatible with any waste or other materials stored near by in other containers, piles, open tanks or surface impoundments should be separated from other materials or protected from them by means of a dike, beam, wall or other suitable devices.

13. The unit shall analyze the hazardous wastes for the parameters such as specific gravity, percentage solids, chemical composition, flash point, reactivity, toxicity, explosivity, calorific value and bio-degradability whichever is applicable. In addition the leachate generated shall also be analyzed. The report of analysis is to be maintained at the facility.

PART - II

GENERAL PACKAGING REQUIREMENTS

1. Packaging materials and contents shall be such that there will be no significant chemical and galvanic reaction among any of the materials in the package.
2. The closing system shall be adequate enough to prevent inadvertent leakage of contents under normal conditions incident to transportation.

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POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

3. Each container must be with its filling holes up and it should be marked "THIS SIDE UP" to indicate the upward position of closures.
4. The packaging should be secure enough to prevent leaks, spills and vapouration during transportation. The hazardous wastes shall be stored in clamp-lid containers. The container should be coated in black paint.
5. It shall be ensured that whenever hazardous wastes are offered for transportation the containers are marked specified under Special Condition 4 of Part -1.
- 6.a) Containers used more than once (refilled and reshipped after having previously emptied) must be in such condition that they comply in all respects with the prescribed requirements as specified under Special condition 1,2 and 3 above.
- b) Containers previously used for any hazardous materials having old marking and labels must be thoroughly removed or obliterated before being reused for storing hazardous wastes.
- c) Containers specified for single trip and non-reusable containers from
- d) which contents have been removed must not be used for transportation of hazardous wastes.
- e) Each container must be thoroughly cleaned to remove all residues and foreign matters, inspected for defects and deterioration. All closing devices and parts must be removed (if possible), inspected for defects and replaced if necessary.

PART - III

TRANSPORTATION REQUIREMENTS

The unit shall follow the guidelines for transportation as detailed below:

1. a) Containers offered for transportation are to be checked for their suitability and properly labelled as per Motor Vehicle Act, 1988 and rules 1989.
- b. Ignitable, reactive or non-compatible hazardous wastes may not be transported along with other wastes.
- c. Approximate number of portable fire extinguishers, safety goggles, gum boots, hand gloves, first aid kits etc., shall be provided.
- d. Adequate training to the drivers and helpers regarding handling and transportation requirements of hazardous wastes should be provided.

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TAMILNADU POLLUTION CONTROL BOARD

- e. Necessary special lining, cushioning, shock absorbers etc to be provided to all vehicles engaged in transporting hazardous wastes.
2. Transportation to be done without any delay to deliver the hazardous wastes to the designated facility.
3. Records pertaining to transportation of hazardous waste shall be maintained.
4. In an event of accidental spillage of hazardous waste during transit, the driver of the vehicle should follow the instructions issued in TREM card. Also he should intimate the fact immediately to fire brigade station, Police/District authorities about the nature of the accident wherever necessary.
5. The unit is responsible for taking appropriate steps to clean up spillage occurring during transit as specified in TREM card.
6. Onsite Emergency Plan to be prepared and furnished to Tamil Nadu Pollution Control Board for storage and transportation of wastes.

PART - IV

RECORD KEEPING AND REPORTING

1. Complete record of collection, reception, treatment, storage and disposal of the hazardous waste shall be maintained in Form-3. The records shall be produced to the inspecting officer of the Board as and when required.
2. Annual returns for the facility shall be sent to the Board in Form-4.
3. Any occurrence of accident has to be communicated to the Board in Form-14.
4. Containers holding hazardous waste should be marked as per form 12.
5. Disposal of hazardous waste shall be carried out by operating the manifest in form -13.
6. All consignments of hazardous wastes shall be transported with transport emergency card as specified in Form -11.

Sd/-xxxx
Member Secretary

//Forwarded by Order//

P. J. S. S.
For Member Secretary

MAY
2.2.2015

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POLLUTION PREVENTION PAYS

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TAMILNADU POLLUTION CONTROL BOARD

ANNEXURE - 1

1. The unit shall comply with the general terms and conditions stipulated in form-2, special conditions specified in the authorization order for on site storage requirements, general packaging requirements, transportation requirements and record keeping and reporting to concerned authority.
2. The unit shall take effective raw material and water conservation measures to minimize the generation of hazardous wastes.
3. The used/spent oil and oil sludge (waste oil) shall be disposed only to such facilities that are authorized by TNPCB and are registered with CPCB, MoEF as actual user facilities adopting environmentally sound management practices for reclaiming used oil.
4. The unit shall ensure that all provisions of HWM Rules, amended are complied with while handling used oil. Due attention shall be given towards compliance with Rule 7 of the HWM Rules while disposing oil wastes. Oil wastes shall be disposed with relevant manifest which shall be operated in compliance with Rule 7(4), 7(5) of HWM Rules amended.
5. Necessary endorsement shall be made in respect of the quantity transacted in the original letter of registration issued by CPCB, MoEF to the reprocessing unit lifting used oil and oil sludge (waste oil).
6. The unit shall ensure that the used oil and oil sludge(waste oil) satisfies the standard prescribed in schedule 5 and Schedule 6 of the said Rules respectively if it is sent for reprocessing to registered recycling facilities.
7. The unit shall furnish the analysis report of used oil and oil sludge (waste oil) as per the schedule 5 and 6 of the HWM Rules respectively.
8. The wastes/residues containing oil and discarded containers shall be stored in an impervious platform under closed shed.
9. The unit shall send back the discarded containers /barrels used for chemicals to the original suppliers and ensure that no cleaning operations shall be carried out inside the factory premises.
10. The hazardous waste shall be stored in a compatible container on a impervious platform in closed shed to prevent pollution of ground water and surface soil.



TAMILNADU POLLUTION CONTROL BOARD

11. The unit shall not store the hazardous waste outside the premises.
12. The unit shall transport and dispose the hazardous waste by following the conditions mentioned in the Schedule A & B.
13. The generator of Hazardous waste shall obtain authorization from Tamil Nadu Pollution Control Board as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008 for storage, transportation and Co-processing of hazardous wastes in Cement plant.
14. The unit shall estimate the quantity of hazardous waste required to be co-processed and the actual quantity of hazardous waste co-processed in each calendar year shall be reported to the Board and Central Pollution Control Board.
15. During Co-processing the unit shall ensure that emissions are not exceeding the base line emissions measured at normal operation of the Cement kiln (without co-processing).
16. The unit shall monitor the particulate matter emissions continuously: HCL, SO₂, CO, Total Organic Carbon, HF, NO_x, Cd, Th & Its compounds, Hg & its compounds, Sb, As, Pb, Co, Cr, Cu, Mn, Ni, V & its compounds half yearly total dioxins and furans annually and furnish the report to the Board.
17. The unit shall maintain log book for the waste co processed including emission monitoring results during co-processing.
18. During Co-processing, the unit shall comply with all the requirements in accordance with the public Liability Insurance Act 1991 as amended.
19. The unit shall ensure the compliance of the conditions stipulated in the consent order issued under Water Act 1974 and Air Act 1974 during Co-processing of hazardous waste.
20. The unit shall comply the conditions imposed by the CPCB in Letter No.2014/AT-CP/RP/PCI-II, Dated 29.09.2014 granting permission for Co-processing of waste mix solid of M/s. Gujarat Enviro Protection & Infrastructure Ltd., GEPIL, Ranipet.
21. The unit shall make efforts for the utilization of ETP sludge generated from Textile and tanneries for co-processing.



TAMILNADU POLLUTION CONTROL BOARD

22. The unit shall make continuous efforts on utilisation of ETP sludge generated from Textiles and Tannery units for co-processing.

Sd/-xxxx
Member Secretary

//Forwarded by Order//

P. S. [Signature]
For Member Secretary

SCHEDULE - A

See rule 3(c) and 5 (5)

(FORM FOR GRANT OF AUTHORIZATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES)

1. The industry shall comply with the provisions of the Environment (Protection) Act, 1986 and the Rules hereunder.
2. The Authorization or its renewal shall be produced for inspection at the request of any officer authorized by the State Pollution Control Board.
3. Any unauthorized change in personnel, equipment and working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
4. An application for the renewal for the authorization shall be made as laid down in Rule 5 (G) (II) at least 30 days before the date of expiry of authorization.
5. TNPCB shall renew the authorization after examining the each case on merit subject to the followings:-
 1. On submission of annual return by the occupier or operator of a facility in Form-IV
 2. On evidence of reduction in the waste generation of recycled or reused and
 3. On fulfillment of conditions prescribed in the authorization regarding management of waste in an environmentally sound manner.



TAMILNADU POLLUTION CONTROL BOARD

6. All the hazardous wastes should be stored in a secured way so that they do not cause leachate problem or are carried away with run off water during rains.
7. The occupier shall demarcate secured storage area with a sign board including the name of hazardous waste.
8. First Aid box, Masks, Fire control equipment and other safety devices shall be provided to meet emergency situations.
9. The occupier shall educate the workers and nearby public of possible accidents and remedial measures.
10. For any accident or spillage of hazardous wastes causing damage to the Environment, the occupier or the transporter as the case shall be held responsible.
11. In case of closure of industry, the unused not consumed raw materials falling under the category of Hazardous Chemicals Rules, 1989 and Amendment Rules, 2000 shall be removed and sold to other units within 90 days from the date of closure to prevent any possibility of occurrence of an accident. In case the above hazardous chemicals have lost their properties originally required, then they shall be treated as Hazardous Waste and they should be disposed off only to the authorized agencies of TNPCCB as in a safe manner.
12. The occupier shall prepare/update an emergency preparedness plan for safe handling of hazardous waste from time to time and submit the same to TNPCCB. Emergency preparedness plan must be implemented immediately whenever there is fire, explosion or release of hazardous waste or hazardous waste constituents, which could endanger to human health or environment.
13. The occupier shall maintain inventory of hazardous wastes, in FORM-3 of the Hazardous Waste Management Rules, 2008.
14. The occupier shall submit annual return to TNPCCB in FORM -4 of the Hazardous Waste Management Rules, 2008.
15. The occupier shall submit information on any accidents that have occurred in handling of hazardous waste to TNPCCB in FORM -5 of the Hazardous Waste Management Rules, 2008.

12

POLLUTION PREVENTION PAYS

அகம் தாய்மை வாய்மைக்கு! புறம் தாய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

16. The occupier or operator of facility shall ensure that the Hazardous Wastes are packed based on the composition in a manner suitable for handling storage and transport and labeled accordingly. The labeling and packing shall be clearly visible and be able to withstand physical conditions and climatic factors.
17. Packaging, labeling and transport of Hazardous Wastes shall be in accordance with the provisions of the rules issued by the Central Government under the Motor Vehicles Act, 1988 and other guidelines issued from time to time. The packaging and labeling shall be based on the composition and hazardous constituent of the waste, however all Hazardous Wastes containers should be provided with a general label.
18. A driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of emergency during transit. The transporter shall carry a Transport Emergency (TREM) card (as given in the guidelines for management and handling of hazardous wastes) duly filled by the Hazardous Waste generator.
19. Any Environment damage due to indiscriminate disposal of hazardous Waste shall be assessed by the appropriate authority. The clean up costs shall be recovered from the generator/Operator/Occupier/ transporter of the said Hazardous Wastes.
20. The industry shall maintain the 'Six copy Manifest System' for the movement of wastes. The manifest copies should be furnished to the TNPCB, Guindy, Chennai-32 under intimation to the concerned District Office.
21. Safe/Secure storage facility should be provided to all recyclable solids/liquids till they are processed.
22. Industry should maintain good housekeeping with respect to all solid wastes, liquid wastes and effluents.
23. No hazardous Waste shall be mixed with any other waste or shall be discharged to a common, other internal, external sewerage or other drainage system without prior approval of TNPCB.
24. If HDPE bags are used for storing Hazardous Wastes, it should be ensured that they are perfectly sealed mechanically or double hot sealed.
25. If MS/HDPE bags are used for storing Hazardous Wastes, the drums/bags should be ensured that they are perfectly sealed.



TAMILNADU POLLUTION CONTROL BOARD

26. The Hazardous Wastes packed in HDPE bags or MS/Plastic drums should be stored in a covered shed on a raised platform with leachate management system
27. The industry shall follow the Guidelines for setting up of operating facility for Hazardous Waste management published by CPCB (documents series Hazardous/11/98-99).
28. Tamil Nadu Pollution Control Board reserves the rights to review, impose additional condition or conditions, revoke, change or alter the terms and conditions of this authorization. Also the Board reserves the right to withdraw the authorization without any prejudice/Notice on receiving any complaints by the Board regarding Environmental Pollution problems caused by the industry.
29. The person authorized shall not rent, lead, sell transfer their industries premises without obtaining prior permission of State Pollution Control Board.
30. The authorized person shall take prior permission of the State Pollution Control Board to close down their Hazardous Waste facility.
31. The Industry shall dispose/sell recyclable wastes such as waste/used oil, used lead acid batteries and non ferrous metal scrap to only the Agencies/Industries with are having valid Authorization of TNPCB and valid registration of CPCB, GOI.
32. The industry shall comply with the provisions of Batteries (Management and Handling) Rules, 2001.

Sd/-xxxx
Member Secretary

//Forwarded by Order//

P. J. S. S. S.
For Member Secretary

May
2.2.2016

SCHEDULE -B

See rule 3(c) and 5 (5)

(FORM FOR GRANT OF AUTHORIZATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES)

1. Industry shall give top priority to waste minimization and cleaner production practices. Industry shall submit action plan for minimization of hazardous wastes within three months from the date of issue of the authorization.

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POLLUTION PREVENTION PAYS

அகம் தாய்மை வாய்மைக்கு! புறம் தாய்மை வாழ்வுக்கு!



TAMILNADU POLLUTION CONTROL BOARD

2. Industry shall dispose the hazardous wastes (mentioned in Form-2) to only the recycling industries, which have registered with Ministry of Environment and Forests, Government of India as "Actual user with ESM. If the waste is disposed to industries which are not having valid authorization of TNPCCB and not registered with CPCB, GOI then, industry is liable for legal action under Environment (Protection) Act.
3. Industry shall maintain good house keeping & maintain proper records for Hazardous Wastes stated in Authorization (Form-2).
4. The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule A and Schedule B of this Authorization half-yearly basis to Board Office, Chennai and concerned District Offices.

Sd/-xxxx
Member Secretary

To

The Executive Director
M/s.DALMIA CEMENT BHARAT LTD-CEMENT PLANT,
S.F.No.218/5A2,219/1A1,219/1A2,219/1A,
Govindapuram Village,
Ariyalur Taluk,
Ariyalur District

Copy to

1. The Joint Chief Environmental Engineer, (M),
Tamil Nadu Pollution Control Board,
Trichy.
2. The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
Ariyalur.

3. BMS

✓ Technical File

//Forwarded by Order//

P. J. K. S.
For Member Secretary

M.S.W.
22.2.2015

M2/08/2015

±5

-77-

POLLUTION PREVENTION PAYS

By RPAD



TAMILNADU POLLUTION CONTROL BOARD

Proc.No. T8/ TNPCB / F-18350/HWM/ARY/ 2014, Dated:03.02.2016

Sub: TNPCB - Industries - M/s Dalmia Cement (Bharat) Limited, Palanganatham Village, Ariyalur District - Amendment issued under Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 enacted under the Environment (Protection) Act, 1986 - Reg.

- Ref:
1. Proceeding No :T10/ TNPCB/ HWM/F-18350/ TRY/2013 dated 9.10.2013
 2. Lr No.: JCEE/TNPCB/TRY/F.TRY-07/RL/2013 dt: 10.10.2014
 3. Unit's letter dated 1.10.2014
 4. CPCB Letter No.B-33014/2013/PCI- II /ID510 Dated :21.9.2015

The unit of M/s Dalmia Cement (Bharat) Limited, Palanganatham Village, Ariyalur District has obtained the authorisation under Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 enacted under the Environment (Protection) Act, 1986 to handle the hazardous Wastes under reference first cited.

CPCB has granted permission for co-processing of solid waste mix of GEPIL, Ranipet in the cement kiln of M/s Dalmia Cement (Bharat) Limited vide reference 4th cited.

Joint Chief Environmental Engineer (M) /Trichy in his report cited vide reference 2nd cited has recommended for the issue of amendment to the authorisation already obtained by the unit under the Hazardous Wastes (Management Handling and Transboundary Movement) Rules, 2008.

Therefore, as per Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 enacted under the Environment Protection Act 1986, the unit shall handle the hazardous wastes as specified below and subject to the following conditions.

1. The unit shall comply with the conditions stipulated in the CPCB letter dated 21/9/2015.



TAMILNADU POLLUTION CONTROL BOARD

Sl.No	Details of process generating hazardous waste as listed in column 2 of Schedule 1 of the amended rules / class of waste as per Schedule 2	Details of Waste Stream as indicated in column 3 of Schedule 1 / identity of waste as per Schedule 2	Quantity generated / handled	Activity for which authorization is issued
1	5. Industrial operation using mineral synthetic oil as lubricant in hydraulic system or other application	5.1 Used/Spent oil	18 KL/Year	Collection, Storage, transport and Disposal to authorized recyclers
2	Solid waste mix from M/s GEPIL, Ranipet		50 T/Day	Reception, Storage and Disposal for co processing in cement kiln.

All other conditions stipulated vide reference first cited remains unaltered.

The receipt of this proceeding may be acknowledged.

Dr. K. Karthikeyan
Member Secretary

To

The Deputy Executive Director,
M/s Dalmia Cements (Bharat) Limited,
Dalmiapuram - 621 65).
Trichy District.

Copy to

1. The Joint Chief Environmental Engineer,
Tamil Nadu Pollution Control Board
Trichy
2. The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
Ariyalur District.
3. File

For Member Secretary

2

POLLUTION PREVENTION PAYS

அகம் தூய்மை வாய்மைக்கு ! புறம் தூய்மை வாழ்வுக்கு !

Annexure - R3/A2

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Vimta Labs Limited
 Registered Office
 142, IDA Phase II, Cherlapally
 Hyderabad-500 051, India
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 F : +91 40 2726 3657



ISSUED TO:
 ULTRATECH CEMENT LIMITED
 REDDIPALAYAM CEMENT WORKS
 REDDIPALAYAM
 ARIYALUR 621 704
 TAMIL NADU - INDIA

Report Number : 17204/13-14/VLL/000/01
 Issue Date : 2014-03-14
 Your Ref : SO NO:GS/GSP/1230508683
 and Date : 2013-05-13

KIND.ATTN. Mr.Kumarvelu

Sample Particulars: SOURCE EMISSION MONITORING FOR RAW MILL - KILN
 (Alternative Fuel used- Paint Sludge)

Page 1 of 2

Sample Registration Date : 2014-03-05 Sampling Date : 2014-03-01
 Analysis starting date : 2014-03-05 Analysis Completion date : 2014-03-13

Test Required: Oxygen, Particulate matter, HCl, HF, Sulphur Dioxide, Oxides of Nitrogen and Carbon Monoxide:

SAMPLE COLLECTED BY VIMTA LABS LTD

LAB REF : EC

TEST RESULTS

Sl. No.	PARAMETERS	UOM	METHOD OF TESTING	RESULTS
1	Date & Time of sample collected	-	-	2014-03-01 at 10.16 hrs
2	Diameter of stack	m	-	3.2
3	Flue gas temperature	°C	-	126
4	Velocity	m/sec	-	14.5
5	Volumetric flow rate	Nm ³ /Sec	-	84.7
6	Oxygen	%	Flue Gas Analyser	11.8
7	Particulate Matter	mg/Nm ³	USEPA method -05	28.7
8	HCl	mg/Nm ³	USEPA method -26	13.7
9	HF	mg/Nm ³	USEPA method -13	0.27
10	Sulphur Dioxide	mg/Nm ³	Flue Gas Analyser	<3.2
11	Oxides of Nitrogen	mg/Nm ³	Flue Gas Analyser	712
12	Carbon Monoxide	%	Flue Gas Analyser	11.4

Method of Testing: As per USEPA Methods
 Instruments used: For HF and HCl - Ion selective Electrode analyzer;
 Minimum Detectable Limit for SO₂ - 3.2 mg/Nm³
 All the Values are represented at 11% O₂

Dr. Subba Reddy Mallampati
 Scientist- Environment

Life Sciences Campus, # 5, Alexandria Knowledge Park, Genome Valley, Shameerpet, Hyderabad - 500 078, India
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Vimta Labs Limited
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Form A - TRP1
01/2004

ISSUED TO:
ULTRATECH CEMENT LIMITED
REDDIPALAYAM CEMENT WORKS
REDDIPALAYAM
ARVALUR 621 704
TAMIL NADU INDIA

Report Number : 17204/13-14/VLL/000/01
Issue Date : 2014-05-14
Your Ref : SO.NO.05/03P/1230500563
and Date : 2013-05-13

IGND.ATTN. Mr.Kumarvelu

Page 2 of 2

Sample Particulars: SOURCE EMISSION MONITORING FOR RAW MILL-KILN
(Alternative Fuel used-Plant Sludge)

Sample Registration Date: 2014-03-05 Sampling Date : 2014-03-01
Analysis starting date: 2014-03-05 Analysis Completion date : 2014-03-13
Tests required: Total Organic Carbon and Metals;

SAMPLE COLLECTED BY VIMTA LABS LTD

LAB REF.: EC

TEST RESULTS

Sl. No.	PARAMETERS	UOM	METHOD OF TESTING	RESULTS
1	Diameter of stack	m	-	3.3
2	Flue gas temperature	°C	-	126
3	Velocity	m/sec	-	14.5
4	Volumetric flow rate	Nm ³ /Sec	-	84.7
5	Total Organic Carbon	mg/Nm ³	USEPA method 40 & MM5(10)	4.3
6	Chromium as Cr	mg/Nm ³	USEPA method -29	0.0113
7	Manganese as Mn	mg/Nm ³	USEPA method -29	0.0157
8	Cadmium as Cd	mg/Nm ³	USEPA method -29	0.0010
9	Thallium as Tl	mg/Nm ³	USEPA method -29	<0.051
10	Mercury as Hg	mg/Nm ³	USEPA method -29	0.0013
11	Cadmium + Thallium (Cd + Tl)	mg/Nm ³	USEPA method -29	0.0010
12	Arsenic as As	mg/Nm ³	USEPA method -29	0.0016
13	Antimony as Sb	mg/Nm ³	USEPA method -29	0.0021
14	Lead as Pb	mg/Nm ³	USEPA method -29	0.0022
15	Cobalt as Co	mg/Nm ³	USEPA method -29	0.0001
16	Copper as Cu	mg/Nm ³	USEPA method -29	0.0196
17	Nickel as Ni	mg/Nm ³	USEPA method -29	0.0189
18	Vanadium as V	mg/Nm ³	USEPA method -29	0.0008

Instruments used: GC-FID, ICP-MS, Cold Vapor AAS and GC-MS
Minimum Detectable Limit for Metals = 0.0001 mg/Nm³
Minimum Detectable Limit for TOC = 0.1 mg/Nm³
All the values are represented at 11% O₂

Dr. Subba Raddy Mallampati
Scientist-Environment

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Annexure-6

Vimta Labs Limited
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ISSUED TO:

ULTRATECH CEMENT LIMITED
 REDDIPALAYAN CEMENT WORKS
 REDDIPALAYAN
 ARYALUR 631734
 TAMIL NADU INDIA

KIND.ATTN: Mr.Kumaravelu

Report Number : 16581/13-14/VLL/000/01
 Issue Date : 2014-01-16
 Your Ref : 05/05P/1330508803
 End Date : 2013-05-13

Sample Particulars: SOURCE EMISSION MONITORING FOR RAW MILL-KULN

Page 1 of 1

Sample Registration Date: 2013-12-26 Sampling Date : 2014-12-24
 Analysis starting date: 2013-12-26 Analysis Completion date: 2014-01-17
 Test required: Dioxins & Furans
 SAMPLE COLLECTED BY VIMTA LABS LTD

LAB REF.: EC

TEST RESULTS

Sl. No.	PARAMETERS	UOM	RESULTS
EMISSION RATES			
1	Diameter of stack	m	3.2
2	Flue gas temperature	°C	122
3	Velocity	m/sec	14.5
4	Volumetric flow rate	Nm ³ /Sec	85.7
DIOXIN AND FURANS			
5	2,3,7,8-TCDF	ng/Nm ³ , TEQ	0.0005
6	1,2,3,7,8-PeCDF	ng/Nm ³ , TEQ	0.0000
7	2,3,4,7,8-PeCDF	ng/Nm ³ , TEQ	0.0000
8	1,2,3,4,7,8-HxCDF	ng/Nm ³ , TEQ	0.0005
9	1,2,3,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.0002
10	2,3,4,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.0005
11	1,2,3,7,8,9-HxCDF	ng/Nm ³ , TEQ	0.0000
12	1,2,3,4,6,7,8-HpCDF	ng/Nm ³ , TEQ	0.0000
13	1,2,3,4,7,8,9-HpCDF	ng/Nm ³ , TEQ	0.0005
14	OCDF	ng/Nm ³ , TEQ	0.0000
15	2,3,7,8-TCDD	ng/Nm ³ , TEQ	0.0006
16	1,2,3,7,8-PeCDD	ng/Nm ³ , TEQ	0.0000
17	1,2,3,4,7,8-HxCDD	ng/Nm ³ , TEQ	0.0000
18	1,2,3,6,7,8-HxCDD	ng/Nm ³ , TEQ	0.0006
19	1,2,3,7,8,9-HxCDD	ng/Nm ³ , TEQ	0.0000
20	1,2,3,4,6,7,8-HpCDD	ng/Nm ³ , TEQ	0.0005
21	OCDD	ng/Nm ³ , TEQ	0.0000
Total Furans & Dioxins			ng/Nm ³ , TEQ
Total Furans & Dioxins			ng/Nm ³ , TEQ Corrected to 11% O ₂ Concentration
			0.0040
			0.0045

Method of Testing: As per USEPA 23 A & 1613
 Remarks: All the values are corrected to 11% O₂ as per CPCB Guidelines HAZWABS/02/2005-08
 Instruments used: Auto spec Premier (HRGC/HRMS), Detection Limit: 0.01ng

Dr. Subba Reddy Mallampati
 Scientist-Environment

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HDFC ERGO General Insurance Company Limited



Public Liability Insurance Policy (UNDER PUBLIC LIABILITY INSURANCE ACT 1991)

SCHEDULE

Policy No: 3133200091343002000

Item 1. Insured	:	Ultratech Cement Limited
Item 2. Producer	:	Aditya Birla Insurance Brokers Limited
Item 3. Financial Interest	:	Not Applicable
Item 4. Mailing address of the Insured	:	B Wing, Ahura Centre, 2 nd Floor, Mahakali Caves Road, Andheri East, Mumbai - 400093
Item 5. Business	:	Cement Manufacturing
Item 6. Policy Period	:	From 00:01 hours: 01 April 2013 To (Midnight) : 31 March 2014
Item 7. Premium	:	Rs. 79,635.00
Item 8. Retroactive Date	:	01 April 2010
Item 9. Premium & Coverage Statement	:	Refer to Page 2
9.1 Premium Computation		
9.2 Insurance Limits & Excess		
Item 10. Clauses, Conditions & Warranties	:	

Form Number	Form Name	Effective Date	Date Issued
PL-02-0032	Policy Schedule	01 April 2013	19 June 2013
PL-02-0031	Insurance Contract	01 April 2013	19 June 2013

Subject otherwise to terms and conditions of Public Liability Insurance Policy.

Signed for and on behalf of HDFC ERGO General Insurance Company Limited, on 19 June 2013

Authorised Signatory

Service Tax Registration No: AABCH0738EST004

The contract will be cancelled ab initio in case, the consideration under the policy is not realized.

The stamp duty of Rs 0.50/- (Fifty Paise only) paid by Demand Draft, vide Receipt/Challan no 0000016792201314 dated 20/05/2013 as prescribed in Government Notification Revenue and Forest Department No Mudrank 2004/4125/CR 690/M-1, dated 31/12/2004.

Note : Discrepancies, if any, in the information contained in the policy document may be pointed out by an insured within 15 days from the policy issue date after which information contained in the policy document shall be deemed to have been accepted as correct.

The company may cancel the policy by sending 15 days notice in case of any fraud, misrepresentation, non disclosure of material fact or non cooperation of the insured as per Regulation 7(n) of IRDA (Protection on Policy Holders interests) Regulations, 2002.

Annexure-8

aps

<u>ULTRATECH CEMENT LIMITED</u> <u>REDDIPALAYAM CEMENT WORKS</u>		
<u>COMPLIANCE FOR 4650 TPD CEMENT PLANT</u>		
<ul style="list-style-type: none"> ❖ Air (prevention & control of pollution) Act, 1981 as amended consent order no: 16764 dated 2.6.2013 ❖ Water (prevention & control of pollution) Act, 1974 as amended consent order no: 20729 dated 2.6.2013 		
S.NO	Conditions	Compliance from industry
1	The Unit shall operate and maintain the Air pollution control measures efficiently and continuously so as to achieve the revised Ambient Air Quality/Emission standards prescribed by the Board	Air pollution control measures are maintained well efficiently and continuously and emissions and ambient air quality are well within the limits
2	The Unit shall maintain the Online stack emission monitoring system connected with CARE Air Centre and online display board installed in the main entrance of the unit efficiently	Continuous stack monitoring system for all the 5 stacks have been connected to CARE Air Centre, TNPCB, Chennai. Online Display Board has been installed at Main gate of Factory
2	The unit shall provide additional shed for storage of raw materials like coal, gypsum, clinker and fly ash within 6 months	Additional storage shed for Alternate fuel has been completed, and Budget has been allotted this financial year and the works will be completed in this year 2014-15 for other additional sheds
4	The unit shall continue to develop green belt more in and around the premises.	Green belt and Tree plantation are done continuously. A total of 15000 Trees were planted during 2013-14 at Plant, colony and mines

Annexure- 10

Vimta Labs Limited
 Registered Office
 142, IDA Phase II, Cherlapally
 Hyderabad-500 051, India
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ISSUED TO:

ULTRATECH CEMENT LIMITED
 REDDIPALAYAM CEMENT WORKS
 REDDIPALAYAM
 ARJYALUR 521794
 TAMIL NADU INDIA

KIND.ATTN: Mr.Kumaravelu

Report Number : 15581/13-14/VLL/000/01
 Issue Date : 2014-01-18
 Your Ref : G3/08P/1230508883
 and Date : 2013-05-13

Page 1 of 1

Sample Particulars: SOURCE EMISSION MONITORING FOR RAW MILL-KILN

Sample Registration Date: 2013-12-28 Sampling Date : 2014-12-24
 Analysis starting date: 2013-12-26 Analysis Completion date: 2014-01-17
 Test required: Dioxins & Furans
 SAMPLE COLLECTED BY VIMTA LABS LTD

LAB REF.: EC

TEST RESULTS

Sl. No.	PARAMETERS	UOM	RESULTS
EMISSION RATES			
1	Diameter of stack	m	3.2
2	Flue gas temperature	°C	122
3	Velocity	m/sec	14.5
4	Volumetric flow rate	Nm ³ /Sec	85.7
DIOXIN AND FURANS			
5	2,3,7,8-TCDF	ng/Nm ³ , TEQ	0.0005
6	1,2,3,7,8-PeCDF	ng/Nm ³ , TEQ	0.0000
7	2,3,4,7,8-PeCDF	ng/Nm ³ , TEQ	0.0000
8	1,2,3,4,7,8-HxCDF	ng/Nm ³ , TEQ	0.0005
9	1,2,3,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.0002
10	2,3,4,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.0005
11	1,2,3,7,8,9-HxCDF	ng/Nm ³ , TEQ	0.0000
12	1,2,3,4,6,7,8-HpCDF	ng/Nm ³ , TEQ	0.0000
13	1,2,3,4,7,8,9-HpCDF	ng/Nm ³ , TEQ	0.0005
14	OCDF	ng/Nm ³ , TEQ	0.0000
15	2,3,7,8-TCDD	ng/Nm ³ , TEQ	0.0006
16	1,2,3,7,8-PeCDD	ng/Nm ³ , TEQ	0.0000
17	1,2,3,4,7,8-HxCDD	ng/Nm ³ , TEQ	0.0000
18	1,2,3,6,7,8-HxCDD	ng/Nm ³ , TEQ	0.0006
19	1,2,3,7,8,9-HxCDD	ng/Nm ³ , TEQ	0.0000
20	1,2,3,4,6,7,8-HpCDD	ng/Nm ³ , TEQ	0.0005
21	OCDD	ng/Nm ³ , TEQ	0.0000
Total Furans & Dioxins			0.0040
Total Furans & Dioxins			ng/Nm ³ , TEQ Corrected to 11% O ₂ Concentration
			0.0045

Method of Testing: As per USEPA 23 A & 1613
 Remark: All the values are corrected to 11% O₂ as per CPCB Guidelines HAZWAMS/30/2005-06
 Instruments used: Auto spec Premier (HRGC/HRMS). Detection Limit: 0.01ng

Dr. Subba Reddy Mallampati
 Scientist-Environment

Life Sciences Campus, # 5, Alexandria Knowledge Park, Ganona Valley, Shamsharpet, Hyderabad - 500 076, India
 T : +91 40 6740 4040 F : +91 40 6740 4401 E : vimtahq@vimta.com, URL : www.vimta.com

Annexure B/A3

ABSTRACT

Sl. No.	Year	Total No. of Units	Total quantity of waste Ton/Annum	Total Quantity Ton/Annum		
				Land fillable Ton/Annum	Recyclable Ton/Annum	Incinerable Ton/Annum
1	2012-2013	3123	490038.6	271587.6	194011.7	24439.3
2	2013-2014	3295	564028.0	237494.0	298114.0	28419.0
3	01.04.2014 to 31.12.2014	3427	617891.0	265177.0	315710.0	37003.0

Annexure R2/A4

(To be published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii), dated the 18th July, 2007)

MINISTRY OF ENVIRONMENT AND FORESTS

NOTIFICATION

New Delhi, the 18.07.2007

S.O. 1174 (E).-- In exercise of the powers conferred by clause (b) of sub-section (1) of section 12 and section 13 of the Environment (Protection) Act, 1986 (29 of 1986) read with rule 10 of the Environment (Protection) Rules, 1986, and in supersession of the notification of the Government of India in the Ministry of Environment and Forests number S.O.728 (E), dated the 21st July, 1987, except as respects things done or omitted to be done before such supersession, the Central Government hereby recognises the laboratories specified in column (2) of the Table given below as environmental laboratories to carry out the functions entrusted to such laboratories under the said Act and the rules and the persons specified in column (3) as Government Analysts for the purposes of analysis of samples of air, water, soil or other substances sent for analysis by the Central Government or the officer empowered under section 11 of the said Act, for a period specified in column (4) of the Table aforesaid, namely:-

TABLE

Sl. No.	Name of the Laboratory	Name of the Government Analyst	Recognition with effect from and valid up to
(1)	(2)	(3)	(4)
1	M/s. Mantec Consultants Pvt. Limited 805, Vishal Bhawan 95 Nehru Place, New Delhi 110 019 Environment Division: D-36, Sector VI, Noida, Uttar Pradesh	(1) Dr. A.N. Verma (2) Shri Sanjeev Sharma (3) Shri Sudhanshu Kumar	02.08.2002 to 01.08.2007
2	M/s/ Terra Firma Environmental Consultants Pvt. Ltd. 07, Hiren Light Industrial Estate, Moghul Lane, Mahim, Mumbai - 400 016 Laboratory: Bldg 'F', G7/8 Bansal Plaza, P.O. Curchorem, Goa	(1) Shri Rajiv Aundhe (2) Shri Ravindra Gorantiwar (3) Mrs. Tejali Paresekar	02.08.2002 to 01.08.2007

(1)	(2)	(3)	(4)
3	M/s. Bhagavathi Ana Labs Ltd. 1-10-250, Ashok Nagar, Hyderabad- 500020	(1) Shri Bhagavathi Hari Babu (2) Shri B. S. Chandra Murthy (3) Shri A.V. Hanumantha Rao	02.12.2002 to 01.12.2007
4	M/s. Pragathi Labs and Consultants Pvt. Ltd., Plot No.8, Temple Road Enclave, Opp. Lane of Linkwell Bldg., Reddy Mess Lane, Tarbunde "X" Road, Secundrabad- 500009	(1) Shri Madala Ravi Kiran (2) Shri Jagdish Sindhe (3) Shri M. V. Secll Pinto	02.12.2002 to 01.12.2007
5	M/s. Vinta Labs Ltd. 142, Industrial Development Authority, Cheralapally Hyderabad - 500 051	(1) Dr. Yogeshwarrao Paruchuri (2) Shri Eranti Shyam Sunder (3) Shri Gorugantala Ananda Kumar	02.12.2002 to 01.12.2007
6	M/s. Jeedimetla Effluent Treatment Ltd. Plot No. 267, Phase - I Industrial Development Authority, Jeedimetla Hyderabad - 500 055	(1) Shri Pabbaraju Sridhar (2) Shri Gondl Prasad	02.12.2002 to 01.12.2007
7	M/s. Syngenta India Ltd. Ecology Crop Protection Division, Santa Monika Works, Corlim ITHAS Goa - 403 110	(1) Shri Uday Vaman Kantak (2) Shri Chandrakant Damodar Priolkar (3) Shri Uday Bhikaji Naik (4) Shri Pradeep Pandurang Hadfadkar (5) Shri Nilesh K. Kudnekar	02.12.2002 to 01.12.2007
8	M/s. Sesa Goa Ltd. P.O. Box 125, Sesaghor 20 Economic Development Corporation Complex, Patto, Panjim, Goa - 403001	(1) Miss Leena Venuekar (2) Shri. Pradeep Raikar (3) Shri Arvind Handigoi	02.12.2002 to 01.12.2007
9	M/s. Sophisticated Industrial Materials Analytic Labs Pvt. Ltd., C-5, Okhla Industrial Area, Phase - I, New Delhi - 110020	(1) Shri Jagmohan Singh Chadha (2) Shri Virander Kumar Sharma (3) Shri Harish Kumar Arora	23.04.2003 to 22.04.2008
10	M/s Arbro Pharmaceuticals Limited 6/14, Kirti Nagar Industrial Area, New Delhi - 110 015	(1) Mrs Shalini Gupta (2) Shri Ram Sevak Sharma (3) Shri Vinay Tiwari	23.04.2003 to 22.04.2008
11	M/s Nuchem Limited, Laboratory Environment Management Centre, 20/6 Mathura Road, Faridabad, Haryana.	(1) Mrs Rekha Batra (2) Ms. Vandana Gupta (3) Shri Ravinder Kumar Chauhan	23.04.2003 to 22.04.2008

(1)	(2)	(3)	(4)
12	M/s Horizon Services Environmental and Safety, 39, Shyamsunder Society, Near Mhatre Bridge, Pune - 411 030	(1) Shri Kunal Manohar Nargolkar (2) Shri Anil Trimbak Deobhankar (3) Shri Amit Anand Patki	26.04.2004 to 25.04.2009
13	M/s Gadark Laboratory Private Limited, Industrial Analysts & Consultants, 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (W), Mumbai - 83	(1) Shri Bhirnrao Shamrao Rane (2) Shri Sharad Bhaskar Gawde (3) Shri Kailash Vasant Chitalkar	26.04.2004 to 25.04.2009
14	M/s Ashwamedh Engineers and Consultants C-operative Society Ltd., Plot No. 89/11/2, Second Floor, Pathardi (Siemen's Colony) Road, Indira Nagar, Nashik -422009	(1) Smt. Aparna Sunil Pharande (2) Shri Santosh Bhaskar Panicker (3) Mrs. Deepali Vinit Borawake	26.04.2004 to 25.04.2009
15	M/s AES Laboratories, B-118, Phase-II, Noida - 201304	(1) Shri Nand Gopal Maurya (2) Shri Rajesh Kumar Singh (3) Shri Birendra Singh Rajwar	26.04.2004 to 25.04.2009
16	M/s Mitcon Consultancy Services Ltd., BAIF Campus, NH-4, Near Waraje, Pune - 411 052.	(1) Shri Jagdale Sundararao Chanderarao (2) Ms. Smita P. Mahajan (3) Shri Amardeep Raju	15.10.2004 to 14.10.2009
17	M/s Idma Laboratories Ltd., 391, Industrial Area-I, Panchkula (Haryana)- 134 109	(1) Dr. Pawan Kumar Aggarwal (2) Dr. Randeep Singh Saini (3) Shri Niranjana Dev Bahi	15.10.2004 to 14.10.2009
18	M/s Konark Research Foundation, Plot No.338/1, Kachgam, Daman - 396 210	(1) Dr. (Mrs) Laila Rajwani (2) Shri Satish Yadav (3) Shri Kamlesh Patel	15.10.2004 to 14.10.2009
19	M/s. EMTRC Consultants Pvt. Ltd., B-16, Plot 10-A, East Arjun Nagar, Opposite Navrachna Apartment, Delhi - 32	(1) Shri Ajendra Kumar Verma (2) Shri Ratnesh Kotiyal (3) Dr. Jayanta Kumar Moitra	15.10.2004 to 14.10.2009
20	M/s Pollucon Laboratories Pvt. Ltd., Environmental Auditors, Consultants & Analysts, Cleaner Production /Waste Minimization Facilitator, 544, Belgium Towers, Ring Road, Opp. Linear Bus Stand, Surat - 395 003	(1) Shri Madhukar Madhusudan Gandhi (2) Shri Devang Madhukar Gandhi (3) Shri Mahesh Kumar Naginbhai Lad	15.10.2004 to 14.10.2009

(1)	(2)	(3)	(4)
21	M/s Choksi Laboratories Ltd., 6/3, Manoramaganj, Indore - 452 001	(1) Shri Sunil Choksi (2) Shri Kavish Vyas (3) Ms. Shweta Bakshi	15.10.2004 to 14.10.2009
22	M/s Precitech Laboratories, 204-206, Balkrishna Complex, 2 nd Floor, GIDC Commercial Zone, Opp. Telephone Exchange, Char Rasta VAPI - 396 195, Gujarat	(1) Dr. Hemalkumar Naik (2) Shri Yogesh Joshi (3) Shri Rujul Bhati (4) Shri Joshi Kanan	07.06.2005 to 06.06.2010
23	M/s Vitro Labs, 2-2-647/A/3, 3 rd Floor, Karur Vysya Bank Building, Shivam Road, Hyderabad - 500 013	(1) Shri Kosna Venkateswar Reddy (2) Shri Cheedalla Narasimha Rao (3) Shri Kande Satish Kumar	07.06.2005 to 06.06.2010
24	M/s Newcon Consultants & Laboratories, 8 th K.M. Stone, Delhi Meerut Road, Merta, Ghaziabad -201003 (UP)	(1) Shri Anil Kumar Chaudhry (2) Shri Amit Kumar Singh (3) Shri Ghanshyam Das	07.06.2005 to 06.06.2010
25	M/s Spectro Analytical Labs (P) Ltd., C-55, Okhla Industrial Area, Phase-1, New Delhi-110020	(1) Shri Umesh Gupta (2) Ms. Divya Chauhan (3) Shri Somvir Singh	07.06.2005 to 06.06.2010
26	M/s Klean Laboratories, 1340 Shivajinagar, Opp. Premier Garage, Pune -411005	(1) Shri Vishwas Waman Kale (2) Shri Sanjay Kamakar Mardikar (3) Shri Pathan Nargis Latif	07.06.2005 to 06.06.2010
27	M/s Startech Labs Pvt. Ltd., 2 nd Floor, SM Chambers, H.No.1-58/7, Opp. St. Ann's Jr. College, Madina Guda, Seri Lingampally, Hyderabad - 500 050.	(1) Shri V. Vaidyanathan (2) Dr. Upendra Tripathi (3) Ms. Suhasini Srivastava	07.06.2005 to 06.06.2010
28	M/s Ecomen Laboratories Pvt. Ltd., Flat No.8, 2 nd Floor, Arif Chamber-V, Sector H, Aliganj, Lucknow - 226024.	(1) Shri Gopi Krishna Misra (2) Dr. Diyya Misra (3) Shri Gyan Prakash Sharma	31.05.2006 to 30.05.2011
29	M/s Mahabal Enviro Engineers Private Ltd., Branch Office; Plot No.13/14, Opp. Patel Petrol Pump, Chinndwara Road, Koradi, Distt. Nagpur - 441 111	(1) Shri Rajesh Harishinhji Barad (2) Shri Vilas Vinayakrao Kadi (3) Shri Harish Prabhakar Mendhi (4) Shri Shelar Satish Atmaram (5) Shri Dhanyakumar A. Patil	31.05.2006 to 30.05.2011
30	M/s. Lawn Enviro Associates, Plot No.B-54, Madhura Nagar, Hyderabad - 500 038	(1) Shri Devireddy Nagarjun Reddy (2) Shri Chevula Anuradha (3) Shri Gouni Sainath Goudz	31.05.2006 to 30.05.2011

(1)	(2)	(3)	(4)
31	M/s Envirotech East Pvt. Ltd., Bengal Ambuja Commercial Complex, UN-F . 13, 1050/1, Survey Park, Kolkata - 700075.	(1) Dr. Prasenjit Bhattacharya (2) Shri Ram Niranjan Shukla (3) Shri Sukanta Ray	31.05.2006 to 30.05.2011
32	M/s Enviro - International, Plot No.138, Udyog Kendra-II Extn., Eco Tech-III, Greater Noida	(1) Dr. Vipul Kumar (2) Shri Ravindra Pal Marwah	27.11.2006 to 26.11.2011
33	M/s Shriram Institute for Industrial Research, 19, University Road, Delhi-110007	(1) Dr. V.K. Verma (2) Dr. Mukesh Garg (3) Shri Ashish Pargaonkar (4) Dr. Jagdish Kumar (5) Mrs. Manjeet Aggarwal (6) Shri V.S. Rawat	27.11.2006 to 26.11.2011
34	M/s. Sargam Metals Pvt. Ltd., (Laboratory Services Division) 2, Ramnaram Road, Manapakkam, Chennai - 600 089	(1) Shri G. Swaminathan (2) Shri V. Maheshwari (3) Shri K.V. Karthkeyan	27.11.2006 to 26.11.2011
35	M/s. SGS India Pvt. Ltd., 620, Diamond Harbour Road, Behala Industrial Complex, Phase-II, 1 st Floor, Kolkata - 700 034	(1) Shri Arunava Chakraborty (2) Shri Satya Charan Manna (3) Shri Sumit Kumar Das	27.11.2006 to 26.11.2011
36	M/s. Kadam Environmental Consultants, 871/B/3, Near Himalaya Machinery, GIDC, Makarpura, Vadodara - 390 010	(1) Mr. Ramesh G. Kotasthane (2) Ms. Sapna Amin (3) Ms. Dhara Patel	27.11.2006 to 26.11.2011
37	M/s Netel (India) Ltd., S.V. Road, Manpada, Thane -400 607 Mumbai	(1) Mr. Dilip K. Dube (2) Mrs. Shraddha S. Kere (3) Ms. Swapna S. Ghatge	27.11.2006 to 26.11.2011
38	M/s. Envirocare Labs Pvt. Ltd., Enviro House, A- 7, MIDC, Wagle Industrial Estate, Main Road, Thane - 400 604, Mumbai	(1) Mr. Ravindra Ramdas Amritkar (2) Mrs. Tanuja Mangesh Thakur	27.11.2006 to 26.11.2011

(1)	(2)	(3)	(4)
39	M/s. Team Test House (Unit of TEAM Institute of Science & Technology Pvt. Ltd.) G1 -584, Sitapura Industrial Area, Jaipur, Rajasthan - 302001	(1) Dr. S.C. Rastogi (2) Dr. S. Mathur (3) Mrs. Kavita Mathur	27.11.2006 to 26.11.2011
40	M/s. Aditya Environmenal Service Pvt. Ltd., 107, Hiren Light Industrial Estate, Mogul Lane, Mahim, Mumbai - 400 016	(1) Shri Gurmeet Singh Wadhwa (2) Ms. Himani P. Joshi (3) Mrs. Sumedha S. Dater (4) Shri D.D. Dalvi (5) Mrs. Rohini D Wasnik (6) Mrs. Monali G. Patil	27.11.2006 to 26.11.2011
41	M/s. Envirochem Test Laboratories HIG -79, Sector - E, Alliganj, Lucknow-226024	(1) Dr. Samina Hasan (2) Ms. Saroj Singh (3) Mr. Sarvar Alam Khan	27.11.2006 to 26.11.2011
42	M/s. Universal Enviro Associates, 104, Libra Madehalli Enclave, Golconda 'X' Roads, Musheerabad, Hyderabad - 500020	(1) Shri T. Murali Krishna (2) Ms. N. Mrudula (3) Ms. Suram Archana	17.05.2007 to 16.05.2012
43	M/s. Italab (Goa) Pvt. Ltd., Felicinta Complex, Gogol, Margoa - 403 601	(1) Mrs. Gema Fernandesh (3) Mrs. Melba Barreto (4) Mr. Nelson Victoria	17.05.2007 to 16.05.2012
44	M/s. Global Enviro Labs, 2-2-1075/14/A/1, Tilaknagar 'X' Road, Bagh Amberpet, Hyderabad - 500 013	(1) Shri T. Murali Krishna (2) Shri R. Rama Krishna (3) Ms. K. Aruna Deve	17.05.2007 to 16.05.2012
45	M/s. Mineral Engineering Services, 25/XXV Club Road, Bellary-583103, Karnataka	(1) Shri M. Sachin Raju (2) Shri M.S. Bhaskar (3) Ms. P. Sunita	17.05.2007 to 16.05.2012
46	M/s. Cosmo-Conscious Research Laboratory (A Division of Transit Surveys), Survey House, 18A/121, 2 nd Cross, Nehru Colony, Bellary- 583103, Karnataka	(1) Shri Shanth A.T. (2) Shri K. Somashekar Rao (3) Shri B. Maruthi Rao (5) Shri G. Dhavaleshwar (6) Shri V. Swarnalatha (7) Shri A. Sanjeevappa".	17.05.2007 to 16.05.2012
47	M/S. Mumbai Waste Management Ltd., Plot No.P-32, MIDC, Taloja, Panvel, Distt. Raigad, Maharashtra - 410 208	(1) Mrs. Rucha R. Valdyia (2) Mr. Pravin M. Jadhav (3) Dr. Rahul Kalhapurkar	18.07.2007 to 17.07.2012

(1)	(2)	(3)	(4)
48	M/s. Sky Lab Analytical Laboratory 9, Matoshri, Near Nebula Park, Beturkar Pada High Way, Kalyan (West) - 421 301 Maharashtra	(1) Dr. Narayan A. Degwekar (2) Miss. Mdhuri R. Neelam (3) Mr. Balkrishna S. Pansare	18.07.2007 to 17.07.2012

(F.No.Q.15018/7/2003-CPW)

Sd/-
(R.K. Vaich)
Joint Secretary to the Government of India

Chhattisgarh Environment Conservation Board, Raipur (C.G)

Shweta Narayan Vs. Union of India & others
(O. A. no. 178 of 2014)

Name of Industry	Grant and Renewal of registration/authorization.	Emission Monitoring & Compliance	Inventorisation of waste	Training and awareness	Valid recognition of Environmental Laboratories	Identification of site for TSDF	Compliance with the EIA Notification of 2006
M/s Ultratech Cement Limited. (Hirmi Cement Works) P.O.-Hirmi, Tehsil-Simga, Dist.-Balodabazar-Bhatapara (C.G.)	Authorization granted vide letter no. 4904 dated 12/01/2016, as Annexure- R4/A1a	1. Stack emission Monitoring report by the CEGB as Annexure- R4/B1	So far only trial run has been done for Co-processing of hazardous waste. Co-processing of hazardous waste on regular basis yet to be started.	Rule 23 of the Hazardous Waste Rules, 2008.	laboratories Section 12 of the EPA, 1986	Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008.	Compliance with the EIA Notification of 2006
M/s Ultratech Cement Limited. (Rawan Cement Works) (Formerly Known as M/s (Grasim Cement) Village-Rawan, P.O.-Grasim Vihar, Teh.-Simga, Dist.-Balodabazar-Bhatapara (C.G.)	Authorization granted vide letter no. 4793 dated 06/01/2016 as Annexure-B1 R4/A1b	1. Stack emission monitoring report by the CEGB as Annexure- R4/B2	As per information of the industry till date no hazardous waste has been co-processed.	Related to CPCB, however officials of CEGB have attended training program organized by CPCB/MOEF & C.C. from time to time	The recognition of laboratory of CEGB was expired on 28/02/2010	So far no site for TSDF has been identified in the state of Chhattisgarh	Not related with the CEGB
M/s Lafarge India Pvt. Limited. Sonadh Cement Plant, P.O.-Rasada, Via-Balodabazar Dist.-Balodabazar-Bhatapara (C.G.)	1. Authorization granted vide letter no. 3915 dated 02/11/2015 as Annexure- R4/A1c1 2. Authorization granted vide letter no. 661 dated 03/05/2014 as Annexure- R4/A1c2 3. Authorization granted vide letter no- 665 dated 03/05/2014 as Annexure- R4/A1c3	1. Stack emission monitoring report submitted by industry as Annexure- R4/B3 2. Stack emission monitoring report by the CEGB as Annexure- R4/B4	As per information submitted by the industry, hazardous waste co-processed in the year 2015 as per following:- TDI tar-1391.412 MT, Waste Mix Liquid 6002.2 MT and Waste Mix Solid-7057.727 MT.				

<p>M/s Lafarge India (P) Ltd Arasmetta Cement Plant, P.O. Gopahnagar, Distt.- Jajigar-Chhampa (C.G.)</p>	<p>4. Authorization renewal granted vide letter no- 2322 dated 22/08/2015 as Annexure- R₄/A/C4</p> <p>Authorization granted vide letter no. 1844 dated 01/07/2011 as Annexure- R₄/A/D1</p>		<p>As per information of the industry till date no hazardous waste has been co-processed.</p>					
<p>M/s Ambuja Cement Ltd. (Cement Plant) P.O.-Rawan, Tehsil- Balodabazar, Distt.-Balodabazar- Bhatapara (C.G.)</p>	<p>1. Authorization granted vide letter no. 178 dated 08/04/2013 as Annexure-1, R₄/A/E1</p> <p>2. Authorization granted vide letter no. 2877 dated 14/08/2014 as Annexure R₄/A/E2</p>	<p>1. Stack emission monitoring report by the CEGB as annexure- R₄/B5</p>	<p>Inventory of hazardous waste co-processed for trial regular co-processing submitted by industry as annexure- R₄/C1</p>					
<p>M/s ACC Limited, P.O.-Jamul Cement Work, Bhilai Distt.-Durg (C.G.)</p>	<p>Authorization granted vide letter no. 6486 dated 06/02/2013 as Annexure- R₄/A/F1</p>	<p>3. Stack emission monitoring report submitted by industry as annexure- R₄/B/C</p> <p>1. Stack emission monitoring report by the CEGB as annexure-1, R₄/D/T</p>	<p>As per information submitted by the industry, hazardous waste co-processed from the year 2013 to 2014 as per following:- Acid tar sludge 382.75 tonnes</p>					



ANNEAURE - R2/A1a.

Ammarave

छत्तीसगढ़ पर्यावरण संरक्षण मंडल, रायपुर
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, RAIPUR

No. /HO/HSMD/CECB/2016 Raipur, Date / /2016

To. **M/s Ultratech Cement Limited,
(Hirmi Cement Works)
P.O.-Hirmi, Tehsil-Simga,
Distt.-Balodabazar-Bhatapara (C.G.)**

Sub:- Grant of authorization under the Hazardous Waste (Management Handling & Trans boundary Movement) Rules, 2008 & as amended Rules, 2010.

Ref:- 1. CPCB. Permission letter no. B-33014/H-37/2009/PCI-II/11727 dated 20/03/2015.
2. Your letter no UTCL/HCW/ENV/299 dated 13/08/2014 & Subsequent correspondence ending dated 06/11/2015.

---:00:---

The authorization under the Hazardous Waste (Management Handling & Trans boundary Movement) Rules [Rule 5(4)], 2008 & as amended 2010 is hereby granted for Five Years from date of issue of this letter. The terms & conditions of the authorization are given in the enclosed authorization letter.

Please acknowledge the receipt of this letter

Encl :-As above

Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

Endt. No. ⁴⁹⁰⁹ /H.O./HSMD/CECB/2016

Raipur, Date 12/1/2016

Copy to :- HSMD Section, Chhatisgarh Environment Conservation Board, H.O.Raipur (C.G.)

Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)


FORM - 2

[See rule 5(4)]

[FORM FOR GRANT OF AUTHORIZATION/RENEWAL BY SPCB/PCC FOR OCCUPIERS, REPROCESSORS, REUSERS AND OPERATORS OF FACILITIES FOR COLLECTION, STORAGE AND DISPOSAL OF HAZARDOUS WASTE]

1. Number of authorization (82) HO/HSMD/CECB/RAIPUR dated 12/01/2016
2. The operator of facility i.e. occupier M/s Ultratech Cement Limited, (Hirmi Cement Works) P.O.-Hirmi, Tehsil-Simga, Distt.-Balodabazar-Bhatapara (C.G.) is here by granted an authorization to operate a facility for collection, reception, storage, transport and disposal of hazardous waste on the factory premises situated at P.O.-Hirmi, Tehsil-Simga, Distt.-Balodabazar-Bhatapara (C.G.).
3. The authorization is granted to operate a facility for generation, collection, treatment, storage, transport and disposal of hazardous waste.
4. This authorization shall be in force for a period of Five years from date of issue of this letter.
5. This authorization is subject to the conditions stated below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act 1986.

Date : -----


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

TERMS & CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The Person authorized shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
6. An application for the renewal of an authorization shall be made as laid down under these Rules.



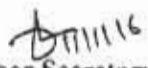
छत्तीसगढ़ पर्यावरण संरक्षण मंडल, रायपुर
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, RAIPUR

7. The authorization is granted for following hazardous wastes.

S.No	Hazardous Waste	Cat No.	Quantity/ year
1.	Refinery sludge	4.1	15000 T/Year
2.	Spent catalyst generated from oil refinery	4.2	6000 T/Year
3.	Grinding dust generated from automobile Industry	5.2	2628 T/Year
4.	Oily rags generated from automobile Industry	5.2	972 T/Year
5.	Phosphate sludge of automobile industries	12.5	4000 T/Year
6.	Paint sludge generated from automobile sector	21.1	12000 T/Year
7.	Spent carbon of pharma industries	28.2	4000 T/Year
8.	Liquid and Solid organic spent solvent of pharmaceutical industries	28.5	15000 T/Year
9.	ETP Sludge from Automobile industries and textile industries	34.3	12000 T/Year
10.	ETP Bio-solid waste, WTP sludge and Spent carbon generated from soft drink industry	34.3	12000 T/Year

8. The Wastes shall be collected and stored properly with adequate safety measures as per rule.
9. Authorized person shall comply with the provisions of chapter-VI for packing, labeling and transport of Hazardous Waste.
10. The authorized person should maintain the record of Hazardous Waste as per Form-3 of rules 5(6) and 22(1).
11. The authorized person should submit the annual returns in form No. 4 & 6 as per Rules to the Board.
12. The occupier shall follow the guidelines (if any) of Central Pollution Control Board & MoEF for management of Hazardous waste.
13. The industry shall display on-line data out side factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
14. The waste must be given thermal/biological/physico-chemical treatment: the waste should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
15. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.

16. An on-site storage of the hazardous wastes for a maximum period of 90 days should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.
17. At least four nos. of peizometric points should be provided around the storage site of H.W. to monitor the leaching of the waste. Each type of waste shall be stored in a separate storage cell.
18. The discarded containers of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.
19. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Concerned Regional Office and H.O. Raipur of the Board by fax/telephone about the incident and details report be sent in form no. 14 as per rule-24 H.W. (M.H.&T. boundary Movement) Rules, 2008 & as amended rules 2010.
20. The Authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.
21. Used/Spent oil shall be sold to registered reprocessors / recyclers, if the characteristics conforms as specified in the shedule-V of the rule.
22. Used batteries shall be disposed off as per the Batteries (Management & Handling) Rules, 2001.
23. Industry shall comply all the conditions stipulated in the permission letter no. B H-33014/H-37/2009/PCI-II/11727 dated 20/03/2015 for Co-processing of hazardous waste.
24. At a time only one type/category of hazardous waste shall be Co-processed in the cement kiln. A log book of the waste Co-processed shall be maintained including emission monitoring result during Co-processing.
25. Board reserves the right to cancel/amend the above condition and add new conditions as and when deemed necessary.


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

R4/A1b.

Amesha-Bi



छत्तीसगढ़ पर्यावरण संरक्षण मंडल, रायपुर
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, RAIPUR

No. /HO/HSMD/CECB/2016

Raipur, Date / / 2016

To,

M/s Ultratech Cement Limited,
(Unit Rawan Cement Works)
(Formerly Known as M/s Grasim Cement)
Village-Rawan, P.O.-Grasim Vihar, Teh.-Simga,
Distt.-Balodabazar-Bhatapara (C.G.)

Sub:-

Grant of authorization under the Hazardous Waste (Management Handling & Trans boundary Movement) Rules, 2008 & as amended Rules, 2010.

Ref:-

1. CPCB, Permission letter no. B-33014/HW/2015/PCI-II/11730 dated 20/03/2015.
2. Your letter no 63/RWCW/ENV/AF6/15 dated 25/08/2015 & Subsequent correspondence ending dated 14/10/2015.

---:00:---

The authorization under the Hazardous Waste (Management Handling & Trans boundary Movement) Rules [Rule 5(4)]. 2008 & as amended 2010 is hereby granted for Five Years from date of issue of this letter. The terms & conditions of the authorization are given in the enclosed authorization letter.

Please acknowledge the receipt of this letter

Encl :-As above

Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

Endt. No. ⁴⁷⁹³ /H.O./HSMD/CECB/2016

Raipur, Date 6/12/2016

Copy to :- HSMD Section, Chhatisgarh Environment Conservation Board, H.O.Raipur (C.G.)

Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)


FORM - 2

[See rule 5(4)]

[FORM FOR GRANT OF AUTHORIZATION/RENEWAL BY SPCB/PCC FOR OCCUPIERS, REPROCESSORS, REUSERS AND OPERATORS OF FACILITIES FOR COLLECTION, STORAGE AND DISPOSAL OF HAZARDOUS WASTE]

1. Number of authorization 79 HO/HSMD/CECB/RAIPUR dated 06/01/2016
2. The operator of facility i.e. occupier M/s Ultratech Cement Limited, (Unit Rawan Cement Works) (Formerly Known as M/s Grasim Cement) Village-Rawan, P.O.-Grasim Vihar, Teh.-Simga, Distt.-Balodabazar-Bhatapara (C.G.) is here by granted an authorization to operate a facility for collection, reception, storage, transport and disposal of hazardous waste on the factory premises situated at Village-Rawan, P.O.-Grasim Vihar, Teh.-Simga, Distt.-Balodabazar-Bhatapara (C.G.).
3. The authorization is granted to operate a facility for generation, collection, treatment, storage, transport and disposal of hazardous waste.
4. This authorization shall be in force for a period of Five years from date of issue of this letter.
5. This authorization is subject to the conditions stated below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act 1986.

Date : -----


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

TERMS & CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The Person authorized shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
6. An application for the renewal of an authorization shall be made as laid down under these Rules.



छत्तीसगढ़ पर्यावरण संरक्षण मंडल, रायपुर
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, RAIPUR

7. The authorization is granted for following hazardous wastes.

S.No.	Hazardous Waste	Cat No.	Quantity/Annum
1.	Spent Catalyst/Spent Carbon of Pharma Industries	28.2, 35.3	200 MT/Day
2.	Liquid Organic Spent Solvent of Pharmaceutical Industries (Spent Organic Solvents)	28.5	276 MT/Day
3.	Solid Organic Spent Solvent of Pharmaceutical Industries (Spent Organic Solvents)	28.5	267MT/Day
4.	Paint sludge generated from automobile sector (Process wastes, residues & Sludges)	21.1	450 MT/Day
5.	Phosphate sludge of automobile industry	12.5	48 MT/Day
6.	Grinding dust from automobile industry	5.2	19 MT/Day
7.	Oily Rags generated from automobile sector	5.2	7 MT/Day
8.	ETP sludge of automobile industries (Chemical sludge from waste water treatment)	34.3	185 MT/Day
9.	ETP sludge of textile industries (Chemical sludge from waste water treatment)	34.3	185 MT/Day
10.	Spent Catalyst generated from oil refinery	4.2	95 MT/Day
11.	Refinery sludge (Oily sludge /emulsion)	4.1	450 MT/Day
12.	ETP Bio-Solid waste generated from soft drink industries (Spent ion exchange resin containing toxic metal)	34.2	65 MT/Day
13.	WTP sludge generated from soft drink industries (Spent ion exchange resin containing toxic metals)	34.2	71 MT/Day
14.	Spent Carbon generated from soft drink industries (Spent ion exchange resin containing toxic metal)	34.2	73 MT/Day

8. The Wastes shall be collected and stored properly with adequate safety measures as per rule.
9. Authorized person shall comply with the provisions of chapter-VI for packing, labeling and transport of Hazardous Waste.
10. The authorized person should maintain the record of Hazardous Waste as per Form-3 of rules 5(6) and 22(1).
11. The authorized person should submit the annual returns in form No. 4 & 6 as per Rules to the Board.
12. The occupier shall follow the guidelines (if any) of Central Pollution Control Board & MoEF for management of Hazardous waste.

13. The industry shall display on-line data out side factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
14. The waste must be given thermal/biological/physico-chemical treatment; the waste should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
15. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.
16. An on-site storage of the hazardous wastes for a maximum period of 90 days should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.
17. At least four nos. of peizometric points should be provided around the storage site of H.W. to monitor the leaching of the waste. Each type of waste shall be stored in a separate storage cell.
18. The discarded containers of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.
19. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Concerned Regional Office and H.O. Raipur of the Board by fax/telephone about the incident and details report be sent in form no. 14 as per rule-24 H.W. (M.H.&T. boundary Movement) Rules, 2008 & as amended rules 2010.
20. The Authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.
21. Used/Spent oil shall be sold to registered reprocessors / recyclers, if the characteristics conforms as specified in the shedule-V of the rule.
22. Used batteries shall be disposed off as per the Batteries (Management & Handling) Rule 2001.
23. Industry shall comply all the conditions stipulated in the permission letter no. B-33014/HW/2015/PCI-II/11730 dated 20/03/2015 for Co-processing of hazardous waste.
24. At a time only one type/category of hazardous waste shall be Co-processed in the cement kiln. A log book of the waste Co-processed shall be maintained including emission monitoring result during Co-processing.
25. Board reserves the right to cancel/amend the above condition and add new conditions as and when deemed necessary.


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

छत्तीसगढ़ पर्यावरण संरक्षण मंडल, रायपुर
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, RAIPUR
Commercial Complex, Housing Board Colony, Kabir Nagar, Raipur - 492 099
E-mail: bocecb@gmail.com, Ph.-0771-2970070, Fax- 0771-2970074

No. /HO/HSMD/CECB/2013 Raipur, Dated / / 2013

To,
M/s Lafarge India Pvt. Ltd.,
Sonadih Cement Plant,
P.O.-Raseda,
Distt.-Balodabazar-Bhatapara (C.G.)

Sub :- Grant of authorization under the Hazardous Waste (Management, Handling & Trans - boundary Movement) Rules, 2008.

Ref :- 1. Your letter no. Env/121/2013 Dated 18/10/2013.
2. CPCB, New Delhi letter no. B-33014/2013/PCI-II/5915 Dated 17/10/2013.

----:00:----

The authorization under the Hazardous Waste (Management Handling & Trans boundary Movement) Rules [Rule 5(4)]. 2008 is hereby granted for **Five Years** from date of issue of this letter. The terms & conditions of the authorization are given in the enclosed authorization letter.

Please acknowledge the receipt of this letter

Encl :-As above

Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

Endt. No. 59/HSMD/CECB/2013

Raipur, Dated 2/11/2013

Copy to :- HSMD Section, Chhatisgarh Environment Conservation Board, H.O. Raipur (C.G.)

Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)


FORM - 2

[See rule 5(4)]

[FORM FOR GRANT OF AUTHORIZATION RENEWAL BY SPCB/PCC FOR OCCUPIERS, REPROCESSORS, REUSERS AND OPERATORS OF FACILITIES FOR COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT AND DISPOSAL OF HAZARDOUS WASTE]

1. Number of authorization 56 HO/HSMD/CECB/RAIPUR dated. 02/11/2013
2. The operator of facility i.e. occupier M/s Lafarge India Pvt. Ltd., Sonadih Cement Plant, P. Raseda, Distt.-Balodabazar-Bhatapara (C.G.) is here by granted an authorization to operate a facility for collection, reception, storage, transport and disposal of hazardous wastes in the plant situated at P.O.-Raseda, Distt.- Balodabazar-Bhatapara (C.G.)
3. The authorization is granted for co-processing of hazardous waste in the cement kiln of the plant.
4. This authorization shall be in force for a period of Five years from date of issue of this letter.
5. This authorization is subject to the conditions stated below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act 1986.

Date : -----


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

TERMS & CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The Person authorization shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
6. An application for the renewal of an authorization shall be made as laid down under these Rules.

छत्तीसगढ़ पर्यावरण संरक्षण मंडल, रायपुर
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, RAIPUR



7. The Wastes shall be collected and stored properly with adequate safety as per rule. The wastes shall be sold to only those persons having valid authority under Hazardous Waste (Management Handling and Trans boundary Movement) Rules, 2008 & as amended 2010 and duly registered with CPCB/SPCB.
8. Authorized person shall comply with the provisions of chapter- VI for packing, labeling and transport of Hazardous Waste.
9. The authorized person should maintain the record of Hazardous Waste as per enclosed Form-3 of rules 5(6) and 22(1).
10. The authorization is granted for following hazardous wastes.

No	Hazardous Waste	Category No	Quantity/Year
1	Waste Mix.Liquid	As Characterized by CPCB	49245 MT/Year
2	Waste Mix Solid	As Characterized by CPCB	17541 MT/Year

11. The feeding rate of Waste Mix Liquid and Waste Mix Solid shall not exceed 9.8% & 3.5% respectively.
12. All the conditions stipulated in the permission granted by Central Pollution Control Board vide reference no.-02 shall be strictly complied with and implemented accordingly.
13. The authorized person should submit the annual returns in enclosed form No. 4 and 6 as per Rules to the Board.
14. The occupier shall follow the guidelines (if any) of Central Pollution Control Board & MoEF for management of Hazardous waste & comply incineration norms issued by Ministry of Environment and Forests (MoEF) Notification, New Delhi, on 26th June, 2008.
15. The industry shall display on-line data out side factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
16. The industry shall establish a hazardous waste management cell to carryout function relating to environmental management under the supervision of senior executive who is directly reporting to the head of organization.
17. An on-site storage the hazardous wastes for a maximum period of 90 days or a maximum quantity of 10 M.T. whichever is less, should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.

MS

18. At least four nos. of peizometric points should be provided around the storage site of hazardous waste to monitor the leaching of the waste. Each type of waste shall be stored in a separate storage cell.
19. The discarded containers of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.
20. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Regional Office, Raipur and H.O. Raipur of the Board by fax/telephone about the incident and details report be sent in form no. 14 as per rule-24 Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules, 2008.
21. The industry shall prominently display the Authorization granted by the Chhattisgarh Environment Conservation Board.
22. Board reserves the right to cancel/amend the above conditions and add new conditions as and when deemed necessary.


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.) 

ANNAPURE R4/A1-C2

ANNAPURE-C11



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Commercial Complex, Chhattisgarh Housing Board Colony,
Kabir Nagar, Raipur (C.G.) 492 099

No. 661 /HO/HSMD/CECB/2014

Raipur, Dated 3/5/2014

To,

M/s Lafarge India Pvt. Ltd.,
Sonadih Cement Plant,
P.O.-Raseda,
Distt.-Balodabazar-Bhatapara (C.G.)

Sub :- Grant of authorization under the Hazardous Waste (Management, Handling & Trans - boundary Movement) Rules, 2008.

Ref :- 1. Your letter no. Env/15/2014 Dated 30/01/2014.
2. CPCB, New Delhi letter no. B-33014/2013/PCI-II/8999, Dated 21/01/2014.

---:00:---

The authorization under the Hazardous Waste (Management Handling & Trans boundary Movement) Rules [Rule 5(4)], 2008 is hereby granted for Five Years from date of issue of this letter. The terms & conditions of the authorization are given in the enclosed authorization letter.

Please acknowledge the receipt of this letter

Encl :-As above

[Signature]
Member Secretary

ok
Chhattisgarh Environment Conservation Board
Raipur (C.G.)

Endt. No. 662 /HO/HSMD/CECB/2014

Raipur, Dated 3/5/2014

Copy to :- The Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Raipur (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.

[Signature]
Member Secretary

ok
Chhattisgarh Environment Conservation Board
Raipur (C.G.)

D:\CECB\Hazardous Waste\Hazardous Establish\Authorization\Lafarge Cement, Sonadih Plant - Plastic and Rain Waste

[Signature]

- 7
8. The feeding rate of Plastic and Resin Waste shall not exceed 4.97% as stipulated in the regular permission given by CPCB.
 9. All the conditions stipulated in the permission granted by Central Pollution Control Board vide reference no.-02 shall be strictly complied with and implemented accordingly.
 10. The authorized person should submit the annual returns in enclosed form No. 4 and 6 as per Rules to the Board.
 11. The occupier shall follow the guidelines (if any) of Central Pollution Control Board & MoEF for management of Hazardous waste.
 12. The industry shall display on-line data out side factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
 13. The industry shall establish a hazardous waste management cell to carryout function relating to environmental management under the supervision of senior executive who is directly reporting to the head of organization.
 14. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Regional Office, Raipur and H.O. Raipur of the Board by fax/telephone about the incident and details report be sent in form no. 14 as per rule-24 Hazardous Waste (Management, Handling & Trans -boundary Movement) Rules, 2008.
 15. The industry shall prominently display the Authorization granted by the Chhattisgarh Environment Conservation Board.
 16. Industry shall be solely responsible for any damage caused to environment due to co-processing of Plastic and Resin Waste in the kiln of cement plant.
 17. Board reserves the right to amend/cancel any of the above conditions and add new conditions as and when deemed necessary in the interest of environmental protection, change in the proposal or non-satisfactory implementation of the stipulated conditions etc.

3

Member Secretary

Chhattisgarh Environment Conservation Board
Raipur (C.G.)

8

ANNEXURE-R4/A1-C3



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Commercial Complex, Chhattisgarh Housing Board Colony,
Kabir Nagar, Raipur (C.G.) 492 099

No. 665 /HO/HSMD/CECB/2014
To,

Raipur, Dated 3/5/2014

M/s Lafarge India Pvt. Ltd.,
Sonadih Cement Plant,
P.O.-Raseda,
Distt.-Balodabazar-Bhatapara (C.G.)

Sub :- Grant of authorization under the Hazardous Waste (Management, Handling & Trans - boundary Movement) Rules, 2008.

Ref :- 1. Your letter no. Env/45/2014 Dated 03/04/2014.
2. CPCB, New Delhi letter no. B-33014/2013/PCI-II/12529, Dated 28/03/2014.

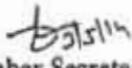
---:00:---

The authorization under the Hazardous Waste (Management Handling & Trans boundary Movement) Rules [Rule 5(4)], 2008 is hereby granted for Five Years from date of issue of this letter. The terms & conditions of the authorization are given in the enclosed authorization letter.

Please acknowledge the receipt of this letter

Encl :-As above

ok


Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)

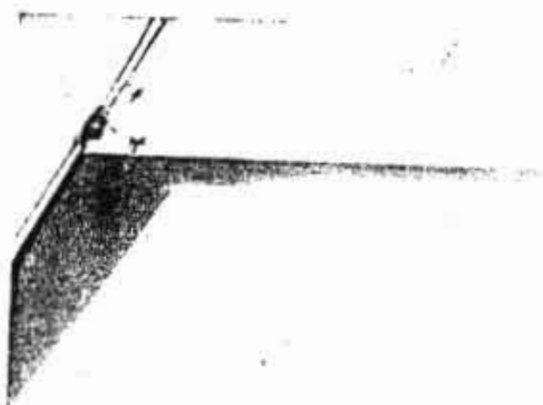
Encl. No. 666 /HO/HSMD/CECB/2014

Raipur, Dated 3/5/2014

Copy to :- The Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Raipur (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.

ok

Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)



FORM - 2

[See rule 5(4)]

[FORM FOR GRANT OF AUTHORIZATION FOR OCCUPIERS, REPROCESSORS, REUSERS AND OPERATORS OF FACILITIES FOR COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT AND DISPOSAL OF HAZARDOUS WASTE]

1. Number of authorization ----- HO/HSMD/CECB/2014/RAIPUR dated. -----
2. The operator of facility i.e. occupier M/s Lafarge India Pvt. Ltd., Sonadih Cement Plant is here by granted an authorization to operate a facility for collection, reception, storage, transport and disposal of hazardous wastes at the premises of the cement plant situated at P.O.-Raseda, Distt.-Balodabazar-Bhatapara (C.G.)
3. The authorization is granted for co-processing of hazardous waste in the cement kiln of the plant.
4. This authorization shall be in force for a period of Five years from date of issue of this letter.
5. This authorization is subject to the conditions stated below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act 1986.

[Signature]
Member Secretary

Chhattisgarh Environment Conservation Board
Raipur (C.G.)

TERMS & CONDITIONS OF AUTHORIZATION


1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The Person authorization shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
6. An application for the renewal of an authorization shall be made as laid down under these Rules.
7. The authorization is granted for following hazardous wastes.

S.No.	Hazardous Waste	Category No	Quantity/Year
01	Waste Mix Solid	As Characterized by CPCB	10000 MT/Year

DCECB/Hazardous Waste/Authorisation/Establishment/M/s Lafarge Cement, Sonadih Plant - Waste Mix Solid.doc

[Signature]

8. The feeding rate of Waste Mix Solid shall not exceed 10.95% as stipulated in the regular permission given by CPCB.
9. All the conditions stipulated in the permission granted by Central Pollution Control Board vide reference no.-02 shall be strictly complied with and implemented accordingly.
10. The authorized person should submit the annual returns in enclosed form No. 4 and 6 as per Rules to the Board.
11. The occupier shall follow the guidelines (if any) of Central Pollution Control Board & MoEF for management of Hazardous waste.
12. The industry shall display on-line data outside factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
13. The industry shall establish a hazardous waste management cell to carryout function relating to environmental management under the supervision of senior executive who is directly reporting to the head of organization.
14. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Regional Office, Raipur and H.O. Raipur of the Board by fax/telephone about the incident and details report be sent in form no. 14 as per rule-24 Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules, 2008.
15. The industry shall prominently display the Authorization granted by the Chhattisgarh Environment Conservation Board.
16. Industry shall be solely responsible for any damage caused to environment due to co-processing of Waste Mix Solid in the kiln of cement plant.
17. Board reserves the right to amend/cancel any of the above conditions and add new conditions as and when deemed necessary in the interest of environmental protection, change in the proposal or non-satisfactory implementation of the stipulated conditions etc.


Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)





R4/A1C4

छत्तीसगढ़ पर्यावरण संरक्षण मंडल, रायपुर
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, RAIPUR
Commercial Complex, Housing Board Colony, Kabir Nagar, Raipur - 492 000
E-mail:hocecb@gmail.com, Ph.-0771-2970070, Fax- 0771-2970074

No. /HSMD/HO/CECB/2015

Raipur, Date / /2015

To,

M/s Lafarge India Pvt. Limited,
Sonadih Cement Plant,
Post-Raseda, Via.- Balodabazar
Distt.-Balodabazar - Bhatapara (C.G.)

Sub:-

Renewal of authorization under the Hazardous Waste (Management Handling & Trans boundary Movement) Rules, 2008 & as amended Rules, 2010.

Ref :-

- 1- Authorization letter no. 2725/HO/HSMD/CECB/2010 Dated 12/08/2010 and amendment. letter no.1204/HO/HSMD/CECB/2013 Dated 03/06/2013.
- 2- Your letter no. ENV/82/2015 Dated 26/06/2015. & subsequent correspondence ending dated 05/08/2015.

—00—

The authorization under the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules [Rule 5(4)], 2008 & as amended rules 2010 is hereby renewed for ~~the period from 03/08/2013 to 03/08/2015~~. The terms and conditions of the authorization are given in the enclosed authorization letter.

Please acknowledge the receipt of this letter.

Encl :-

as above

Member Secretary
C.G. Environment conservation Board
Raipur (C.G.)

Encl No. ²³²² /HSMD/H.O./CECB/2015

Raipur, Date 24/8/2015

Copy to:-

HSMD Section, Chhattisgarh Environment Conservation Board, H.O. Raipur.


Member Secretary
C.G. Environment conservation Board
Raipur (C.G.)

FORM -2
[See rule 5(4)]

[FORM FOR GRANT OF AUTHORIZATION BY SPCB/PCC FOR OCCUPYING REPROCESSORS, REUSERS AND OPERATORS OF FACILITIES FOR COLLECTIONS, RECEPTION, TREATMENT, STORAGE, TRANSPORT, AND DISPOSAL OF HAZARDOUS WASTES]

1. Number of authorization... 118 HO/HSMD/CECB/RAIPUR Dated ... 22/08/2015
The authorization renewal granted vide letter no. 2725/HO/HSMD/CECB/2010 Dated 12/08/2010 and amendment letter no. 1204/HO/HSMD/CECB/2013 Dated 03/06/2013 to occupier of facility i.e. **M/s Lafarge India Pvt. Limited, Sonadih Cement Plant, Post-Raseda, Via.- Balodabazar Distt.-Balodabazar - Bhatapara (C.G.)** is hereby renewed to operate a facility for collection, reception, treatment, storage, transport and disposal of hazardous waste on the premises situated at **Post-Raseda, Via.- Balodabazar Distt.-Balodabazar - Bhatapara (C.G.)**.
2. The authorization is renewed to operate a facility for collection, storage, treatment, transport and disposal of hazardous wastes.
3. The renewed authorization shall be in force for a period of Five years from 08/08/2015 i.e. upto 07/08/2020.
4. The authorization is subject to the conditions stated below and such conditions as may be specified in the rule for the time being enforce under the Environment (Protection) Act, 1986.

Dated:


Member Secretary
C.G. Environment conservation Board
Raipur (C.G.)

TERMS & CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The person authorized shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
6. An application for the renewal of an authorization shall be made as laid down under these rule 5(7).
7. Authorized person shall comply with the provisions of chapter-VI rule 19, 20 & 21 for packing, labeling and transport of Hazardous Waste.
8. The authorized person should maintain the record of Hazardous Waste as per the enclosed Form-3 of rules 5(6) and 22(1).
9. The authorized person should submit the annual returns in enclosed form No. 4 as per Rules 5(6) and 22(2) to the Board,
10. The occupier shall follow the guidelines (if any) of Central Pollution Control Board & MoEF for management of Hazardous waste.
11. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.



छत्तीसगढ़ पर्यावरण संरक्षण मंडल, रायपुर
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, RAIPUR

12. The authorization is renewed for following hazardous wastes:

S.No.	Hazardous Waste	Cat.No.	Quantity/Year
1.	Oil Containing Cargo residue washing water & Sludge	3.1	45 MT/Year
2.	Used/Spent oil	5.1	50 MT/Year
3.	Waste /Residues Containing Oil	5.2	160 MT/Year
4.	H.W. Tar Wa		400 MT/Year
5.	Discarded Containers/Barrels/Liners contaminated with Hazardous Wastes/Chemicals	33.3	5.0 MT/Year
6.	Waste Mix Solid and Low Density Waste Mix Solid	As Characterized by CPCB	25275 MT/Year

13. The industry shall display on-line data out side factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
14. The waste must be given thermal/biological/physico-chemical treatment; the waste should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
15. The Wastes shall be collected and stored properly with adequate safety as per rule. The wastes shall be sold to only those persons having valid authorization under Hazardous Waste (Management Handling and Transboundary Movement) Rules, 2008 & as amended 2010 and duly registered with SPCB.
16. The waste must be given thermal/biological/physico-chemical treatment; the waste should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
17. An on-site storage the hazardous wastes for a maximum period of 90 days or a maximum quantity of 10 M.T. whichever is less. Should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.
18. The wastes shall be collected and stored properly with adequate safety as per rule. The wastes shall be purchased to only those persons having valid authority under Hazardous Waste (Management. Handling and Trans boundary Movement) Rules 2008 and duly registered with CPCB.
19. At least four nos. of peizometric points should be provided around the storage site of H.W. sludge to monitor the leaching of the waste.
20. The discarded empty bags/container of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.
21. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Concern Regional Office and H.O. Raipur of the Board by fax/telephone or be telegram about the incident and details report be sent in form no. 14 as per rule-24 Hazardous Waste (Management Handling and Transboundary Movement) Rules, 2008 & as amended Rules 2010.
22. The Authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.

23. Board reserves the right to cancel/amend the above condition and add new conditions as and when deemed necessary.



Member Secretary
C.G. Environment conservation Board
Raipur (C.G.)

ANNEXURE-R4/AID1

Annexure-Dig 2



HEAD OFFICE
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
1-Tilak Nagar, Shiv Mandir Chowk, Main Road,
Avanti Vihar, Raipur (C.G.)

No. **1843** /H.O./HSMD/CECB/2011

Raipur, Date **01/7/2011**

To,

M/s Lafarge India (P) Ltd.
Arasmeta Cement Plant,
P.O. Gopalnagar,
Distt.- Janjgir-Champa (C.G.)

Sub:- Grant of authorization under the Hazardous Waste (Management Handling & Trans Boundary Movement) Rules, 2008 & as amended 2010.

Ref:- Your letter No. I.IPL/ACP/OP/ HWZ Dated 03/06/2011


-----:00:-----

The authorization under the Hazardous Waste (Management Handling & Trans boundary Movement) Rules [Rule 5(4)]. 2008 & as amended 2010 is hereby granted for **Five Years** from date of issue of this letter. The terms & conditions of the authorization are given in the enclosed authorization letter.

Please acknowledge the receipt of this letter

Encl :-As above

ok



Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

Encl. No. **1844** /H.O./HSMD/CECB/2011

Raipur, Date **01/7/2011**

Copy to :- HSMD Section, Chhatisgarh Environment Conservation Board, H.O.Raipur (C.G.)

ok


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

FORM - 2


[See rule 5(4)]

391

[FORM FOR GRANT OF AUTHORIZATION RENEWAL BY SPCB/PCC FOR OCCUPIERS, REPROCESSORS, REUSERS AND OPERATORS OF FACILITIES FOR COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT AND DISPOSAL OF HAZARDOUS WASTE]

1. Number of authorization 12 HO/HSMD/CECB/RAIPUR dated 01-7-2011
2. The operator of facility i.e. occupier M/s Lafarge India (P) Ltd. Arasmeta Cement Plant, P.O. Gopalnagar, Distt.- Janjgir-Champa (C.G.) is here by granted an authorization to operate a facility for collection, reception, storage, transport and disposal of hazardous waste on the Depot premises situated at Distt.- Janjgir-Champa (C.G.)
3. The authorization is granted to operate a facility for generation, collection, storage and disposal of hazardous waste.
4. This authorization shall be in force for a period of Five years from date of issue of this letter.
5. This authorization is subject to the conditions stated below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act 1986.

Date : -----


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

TERMS & CONDITIONS OF AUTHORIZATION



1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The Person authorization shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
6. An application for the renewal of an authorization shall be made as laid down under these Rules.
7. The Wastes shall be collected and stored properly with adequate safety as per rule. The wastes shall be sold to only those persons having valid authority under Hazardous Waste (Management Handling and Trans boundary Movement) Rules, 2008 & as amended 2010 and duly registered with CPCB/SPCB.
8. Authorized person shall comply with the provisions of chapter- VI for packing, labeling and transport of Hazardous Waste.
9. The authorized person should maintain the record of Hazardous Waste as per enclosed Form-3 of rules 5(6) and 22(1).



10. The authorization is granted for following hazardous wastes. 390

No	Hazardous Waste	Category No	Quantity/Year
1	Waste Mix solid	As Characterized by CPCB	20.4 MT/day
2	Waste Mix Liquid	As Characterized by CPCB	88.0 MT/day

11. The characteristics of Waste Mix Solid (@ 20.4 MT/day) & Waste Mix Liquid (@ 88.0 MT/day) which is permissible for use shall be maximum up to 2.4% and 10.3% of fuel substitution respectively as per the conditions laid down by CPCB vide letter No. B-33014/H-31/2009/PCI-II/632, dated 09/05/2011.
12. The authorized person should submit the annual returns in enclosed form No. 4 and 6 as per Rules to the Board.
13. The occupier shall follow the guidelines (if any) of Central Pollution Control Board & MoEF for management of Hazardous waste & comply incineration norms issued by Ministry of Environment and Forests (MoEF) Notification, New Delhi, on 26th June, 2008.
14. The industry shall display on-line data out side factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
15. The waste must be given thermal/biological/physico-chemical treatment; the waste should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
16. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.
17. An on-site storage the hazardous wastes for a maximum period of 90 days or a maximum quantity of 10 M.T. whichever is less. Should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.
18. At least four nos. of peizometric points should be provided around the storage site of H.W. sludge to monitor the leaching of the waste. Each type of waste shall be stored in a separate storage cell.
19. The discarded containers of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.
20. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Concern Regional Office and H.O. Raipur of the Board by fax/telephone or be telegram about the incident and details report be sent in form no. 14 as per rule-24 H.W. (M.H.&T. boundary Movement) Rules, 2008 & as amended rules 2010.
21. The Authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.
22. Board reserves the right to cancel/amend the above condition and add new conditions as and when deemed necessary.


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.) 

ANN - RA/A1-G1

Approved - E



HEAD OFFICE
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Commercial Complex, Chhattisgarh Housing Board Colony,
Kabir Nagar, Raipur (C.G.)

No. 178 /H.O./HSMD/CECB/2013

Raipur, Date 8/4/2013

To,

M/s Ambuja Cement Ltd.,
(Cement Plant)
P.O.-Rawan, Tehsil-Balodabazar,
Distt.-Balodabazar-Bhatapara (C.G.)

Sub:- Grant of authorization under the Hazardous Waste (Management Handling & Transboundary Movement) Rules, 2008 & as amended Rules, 2010.


Ref :- Your letter no. ACL/BYT/AFR/2012/1990 Dated 17/10/2012.

---:00:---

The authorization under the Hazardous Waste (Management Handling & Transboundary Movement) Rules [Rule 5(4)], 2008 & as amended 2010 is hereby granted for Five Years from date of issue of this letter. The terms & conditions of the authorization are given in the enclosed authorization letter.

Please acknowledge the receipt of this letter


Encl :-As above


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

Encl. No. /H.O./HSMD/CECB/2013

Raipur, Date / /2013

Copy to :-
1. HSMD Section, Chhattisgarh Environment Conservation Board, H.O.Raipur (C.G.)
2. Regional Office, Chhattisgarh Environment Conservation Board, Raipur (C.G.)


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)


FORM - 2

[See rule 5(4)]

[FORM FOR GRANT OF AUTHORIZATION RENEWAL BY SPCB/PCC FOR OCCUPIERS, REPROCESSORS, REUSERS AND OPERATORS OF FACILITIES FOR COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT AND DISPOSAL OF HAZARDOUS WASTE]

1. Number of authorization _____ HO/HSMD/CECB/RAIPUR Dated. _____
2. The operator of facility i.e. occupier M/s Ambuja Cement Ltd., (Cement Plant) P.O.-Rawan, Tehsil-Balodabazar, Distt.-Balodabazar-Bhatpara (C.G.) is hereby granted an authorization to operate a facility for collection, reception, storage, transport and disposal of hazardous waste on the factory premises situated at Rawan, Tehsil-Balodabazar, Distt.-Balodabazar-Bhatpara (C.G.).
3. The authorization is granted to operate a facility for generation, collection, storage and disposal of hazardous waste.
4. This authorization shall be in force for a period of Five years from date of issue of this letter.
5. This authorization is subject to the conditions stated below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act 1986.

Date: _____


 Member Secretary
 C.G. Environment Conservation Board
 Raipur (C.G.)

TERMS & CONDITIONS OF AUTHORIZATION


1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The Person authorization shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
6. An application for the renewal of an authorization shall be made as laid down under these Rules.
7. The authorization is granted for following hazardous wastes.

S.No.	Hazardous Waste	Quantity/Year
1.	Scrap PTA, PTA contaminated liners, Oily rags, Process sludge & ETP sludge	8000 MT/Year

8. The Wastes shall be collected and stored properly with adequate safety as per rule. The wastes shall be sold to only those persons having valid authority under Hazardous Waste (Management Handling and Trans boundary Movement) Rules, 2008 & as amended 2010 and duly registered with SPCB.



9. Authorized person shall comply with the provisions of chapter- VI for packing, labeling and transport of Hazardous Waste.
10. The authorized person should maintain the record of Hazardous Waste as per enclosed Form-3 of rules 5(6) and 22(1).
11. The authorized person should submit the annual returns in enclosed form No. 4 as per Rules to the Board.
12. The occupier shall follow the guidelines (if any) of Central Pollution Control Board & MoEF for management of Hazardous waste.
13. The industry shall display on-line data out side factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
14. The waste must be given thermal/biological/physico-chemical treatment; the waste should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
15. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.
16. An on-site storage the hazardous wastes for a maximum period of 90 days or a maximum quantity of 10 M.T. whichever is less. Should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.
17. At least four nos. of pelzometric points should be provided around the storage site of H.W. sludge to monitor the leaching of the waste. Each type of waste shall be stored in a separate storage cell.
18. The discarded containers of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.
19. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Concern Regional Office and H.O. Raipur of the Board by fax/telephone or by telegram about the incident and details report be sent in form no. 14 as per rule-24 H.W. (M.H.&T. boundary Movement) Rules, 2008 & as amended rules 2010.
20. The Authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.
21. Board reserves the right to cancel/amend the above condition and add new conditions as and when deemed necessary.


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

ANNEXURE-R4/A1E02

ANNEXURE-E1



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Commercial Complex, Chhattisgarh Housing Board Colony,
Kabir Nagar, Raipur (C.G.) 492 099

No. /HO/HSMD/CECB/2014 Raipur, Dated / / 2014
To,
M/s Ambuja Cements Limited,
P.O.-Rawan, Tehsil-Baloda Bazar,
District - Baloda Bazar-Bhatapara 493 331 (C.G.)
Sub :- Grant of authorization under the Hazardous Waste (Management, Handling & Trans -
boundary Movement) Rules, 2008.
Ref :- 1. Your letter no. ALU/BU/Syngenta AFR/2014/36, Dated 26/04/2014.
2. CPCB, New Delhi letter no. B-33014/H-37/2009/PCI-II/3667, Dated 29/10/2013.

---:00:---

The authorization under the Hazardous Waste (Management Handling & Trans boundary Movement) Rules [Rule 5(4)], 2008 and as amended 2010 is hereby granted for Five Years from the date of issue of this letter. The terms & conditions of the authorization are given in the enclosed authorization letter.

Please acknowledge the receipt of this letter

Encl :-As above

Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)

Encl. No 2877HO/HSMD/CECB/2014

Raipur, Dated 14/8/2014

Copy to :- ✓ 1. HSMD Section, Chhattisgarh Environment Conservation Board, H.O., Raipur (C.G.)
2. Regional Office, Chhattisgarh Environment Conservation Board, Raipur (C.G.).
Please ensure compliance and report, if any condition/conditions are violated by the industry.

Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)

CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, RAIPUR (C.G.)

FORM - 2

[See rule 5(4)]

[FORM FOR GRANT OF AUTHORIZATION FOR OCCUPIERS, REPROCESSORS, REUSERS AND OPERATORS OF FACILITIES FOR COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT AND DISPOSAL OF HAZARDOUS WASTE]

1. Number of authorization 62 HO/HSMD/CECB/2014/RAIPUR dated 14/8/2014
2. The operator of facility i.e. occupier M/s Ambuja Cements Limited is hereby granted an authorization to operate a facility for collection, reception, storage, transport and disposal of hazardous wastes at the premises of the cement plant situated at P.O.-Rawan, Tehsil & District - Balodabazar-Bhatapara (C.G.)
3. The authorization is granted for co-processing of hazardous waste in the cement kiln of the plant.
4. This authorization shall be in force for a period of Five years from date of issue of this letter.
5. This authorization is subject to the conditions stated below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act 1986.


Member Secretary

Chhattisgarh Environment Conservation Board
Raipur (C.G.)

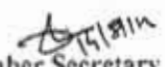
TERMS & CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of Environment (protection) Act. 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
4. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
5. An application for the renewal of an authorization shall be made as laid down under these Rules.
6. The authorization is granted for following hazardous wastes.

S.No.	Hazardous Waste	Category No	Quantity/Year
01	Waste Mix (ETP Sludge, Pesticide residues, off specification pesticides)	As Characterized by CPCB	19000 MT/Year

7. The feeding rate of Waste Mix (ETP Sludge, Pesticide residues, off specification pesticides), shall not exceed 5.18% as stipulated in the regular permission given by CPCB.

8. All the conditions stipulated in the permission granted by Central Pollution Control Board vide reference no.-02 shall be strictly complied with and implemented accordingly.
9. The authorized person should maintain the record of Hazardous Waste as per Form-3 of rules 5(6) and 22(1).
10. The occupier shall follow the guidelines (if any) of Central Pollution Control Board & MoEF for management of Hazardous waste.
11. The industry shall display on-line data out side factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
12. The industry shall establish a hazardous waste management cell to carryout functions relating to environmental management under the supervision of senior executive who is directly reporting to the head of organization.
13. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Regional Office, Raipur and H.O. Raipur of the Board by fax/telephone about the incident and details report be sent in form no. 14 as per rule-24 Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules. 2008.
14. The industry shall prominently display the Authorization granted by the Chhattisgarh Environment Conservation Board.
15. Industry shall be solely responsible for any damage caused to environment due to co-processing of Waste Mix (ETP Sludge, Pesticide residues, off specification pesticides) in the kiln of cement plant.
16. Board reserves the right to amend/cancel any of the above conditions and add new conditions as and when deemed necessary.


Member Secretary
Chhattisgarh Environment Conservation Board
Raipur (C.G.)

ANN - R4/A1F1

Annexure-F1



HEAD OFFICE
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Commercial Complex, Chhattisgarh Housing Board Colony,
Kabir Nagar, Raipur (C.G.)

No. /H.O./HSMD/CECB/2013 Raipur, Date / / 2013
To. M/s ACC Ltd.,
Post-Jamul Cement Works, Durg,
Distt.-Durg (C.G.)
Sub:- Grant of authorization under the Hazardous Waste (Management Handling & Trans
Boundary Movement) Rules, 2008 & as amended Rules, 2010.
Ref :- 1. Central Pollution Control Board, New Delhi letter no. B-33014/2012/PCI-II/3314
Dated 31/10/2012.
2. Your letter no. JL/ENV/AFR/13/02 Dated 09/01/2013.

-----00:-----

The authorization under the Hazardous Waste (Management Handling & Transboundary
Movement) Rules [Rule 5(4)], 2008 & as amended 2010 is hereby granted for Five Years from date of
issue of this letter. The terms & conditions of the authorization are given in the enclosed authorization
letter.

Note :- This authorization is exclusive of hazardous wastes Decanter sludge, Used oil/Grease,
Transformer oil, Spent oil & Used oil for which authorization has already been granted
vide letter no. 2519/HSMD/HO/CECB/2012 Raipur dated 04/08/2012.

Please acknowledge the receipt of this letter

Encl :-As above

Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

Endt. No. 127/H.O./HSMD/CECB/2013

Raipur, Date 6/2/2013

Copy to :- HSMD Section, Chhattisgarh Environment Conservation Board, H.O. Raipur (C.G.)

Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

CHHATTISGARH ENVIRONMENT CONSERVATION BOARD


FORM - 2

(See rule 5(4))

[FORM FOR GRANT OF AUTHORIZATION RENEWAL BY SPCB/PCC FOR OCCUPIERS, REPROCESSORS, REUSERS AND OPERATORS OF FACILITIES FOR COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT AND DISPOSAL OF HAZARDOUS WASTE]

1. Number of authorization 43 HO/HSMD/CECB/RAIPUR Dated. 06/02/2013
2. The operator of facility i.e. occupier M/s ACC Ltd., Post Jamul Cement Works, Durg, Distt.-Durg (C.G.) is here by granted an authorization to operate a facility for collection, reception, storage, transport and disposal of hazardous waste on the factory premises situated at Post Jamul Cement Works, Durg, Distt.-Durg (C.G.).
3. The authorization is granted to operate a facility for generation, collection, storage and disposal of hazardous waste.
4. This authorization shall be in force for a period of Five years from date of issue of this letter.
5. This authorization is subject to the conditions stated below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act 1986.

Date : -----


Member Secretary
 C.G. Environment Conservation Board
 Raipur (C.G.)


TERMS & CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The Person authorization shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
6. An application for the renewal of an authorization shall be made as laid down under these Rules.
7. The authorization is granted for following hazardous wastes.

S.No.	Hazardous Waste	Category No.	Quantity/Year
1.	Acid Tar Sludge	13.2	2000 Tone/Year

8. The Wastes shall be collected and stored properly with adequate safety as per rule. The wastes shall be sold to only those persons having valid authority under Hazardous Waste (Management Handling and Trans boundary Movement) Rules, 2008 & as amended 2010 and duly registered with SPCB.

9. Authorized person shall comply with the provisions of chapter- VI for packing, labeling and transport of Hazardous Waste.
10. The authorized person should maintain the record of Hazardous Waste as per enclosed Form-3 of rules 5(6) and 22(1).
11. The authorized person should submit the annual returns in enclosed form No. 4 as per Rules to the Board.
12. The occupier shall follow the guidelines (if any) of Central Pollution Control Board & MoEF for management of Hazardous waste.
13. The industry shall display on-line data out side factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
14. The waste must be given thermal/biological/physico-chemical treatment; the waste should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
15. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.
16. An on-site storage the hazardous wastes for a maximum period of 90 days or a maximum quantity of 10 M.T. whichever is less. Should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.
17. At least four nos. of peizometric points should be provided around the storage site of H.W. sludge to monitor the leaching of the waste. Each type of waste shall be stored in a separate storage cell.
18. The discarded containers of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.
19. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Concern Regional Office and H.O. Raipur of the Board by fax/telephone or be telegram about the incident and details report be sent in form no. 14 as per rule-24 H.W. (M.H.&T. boundary Movement) Rules, 2008 & as amended rules 2010.
20. The Authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.
21. Board reserves the right to cancel/amend the above condition and add new conditions as and when deemed necessary.


Member Secretary
C.G. Environment Conservation Board
Raipur (C.G.)

ANNEXURE - R4/B1

~~ANNEXURE - A2~~

M/s Ultratech Cement Ltd. (Hirmi Cement Works),
Village - Hirmi,
Dist. - Balodabazar-Bhatapara

Date	Description	Result	
		Particulate Matter	Opacitymeter reading
25.02.2015	Stack outlet Raw mill kiln	46.35	39.6
27.07.2015	Stack outlet Line 1	48.65	33.0
28.11.2015	Combined Stack outlet Kiln & Raw Mill 1 & 2	27.39	23.0

⊕

R7/B2

Rawan Cement Works

M/s Ultratech Cement Ltd. (Rawan Cement Works),
 Village -Rawan, Post - Grasim Vihar,
 Dist. - Balodabazar-Bhatapara.

Date	Description	Result	
		Particulate Matter	Opacitymeter reading
25.02.2015	Stack Outlet Line - 2, RM//Kiln RABH Stack	32.71	23.07
	Stack Outlet Line - 2, Cooler ESP Stack	32.12	20.39
	Stack Outlet Line - 2, Coal Mill Bag House Stack	38.14	32.66
	Stack Outlet TPP Boiler ESP Stack	42.25	32.83
27.07.2015	Stack Outlet Line - 2	47.12	31.0
27.11.2015	Stack Outlet Line - 1	42.31	37.75

E



R4/B3

Annexure-C2

TEST CERTIFICATE

QR/5.10/01

Customer's Name and Address :

Page: 1 of 1

M/s. LAFARGE INDIA PVT. LTD. SONADIH CEMENT WORKS, SONADIH, CHHATTISGARH, INDIA.	Test Report No. : PL/LI 0004 Issue Date : 22/05/2015 Customer's Ref. : P.O. No. 14450537 Date: 28.04.2014
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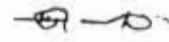
STACK DETAILS

Sampling Location : LINE 1 (RAW MILL & KILN)	Sampling Procedure : As per table
Sampling By : Polyzon Laboratories Pvt. Ltd.	Sampling port Height from Ground Level** : 72 Meter
Date of Sampling : 27/04/2015	Fuel Used** : Waste mix liquids
Date of Completion : 19/05/2015	Cross Section Area (m ²) : 13.56
Lab ID/subcontract : LI/1504/[1-7]	Stack Diameter** : 4.17 Meter

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	TEST/SAMPLING METHOD
1	Sulfur Dioxide as SO ₂	mg/Nm ³	7.28	IS:11255 (Part-2) : 1985
2	Oxides of Nitrogen as NO _x	mg/Nm ³	804	IS:11255 (Part-7) : 2005
3	Carbon Monoxide as CO	mg/Nm ³	278	SOP:Stack-CO-1 (Ref.: USEPA Method 60 App. A-00108)
4	Hydrochloric Acid as HCl	mg/Nm ³	15.6	SOP:Stack-HCl-1 (Ref.: USEPA Method 26A)
5	Hydrogen Fluoride as HF	mg/Nm ³	1.4	IS:11255 (Part-5) : 1990
6	Total Organic Carbon as TOC	mg/Nm ³	5.8	SOP:Stack-TOC-1 (Ref.: USEPA/600/R-96/033)
7	Cadmium as Cd	mg/Nm ³	BDL*	SOP: Stack-Heavy Metal-1 (Ref.: USEPA Method 29)
8	Th & their compounds	mg/Nm ³	BDL*	
9	Hg & it's compound	mg/Nm ³	BDL*	
10	Antimony Sb	mg/Nm ³	BDL*	
11	Arsenic as As	mg/Nm ³	0.015	
12	Lead as Pb	mg/Nm ³	0.041	
13	Cobalt as Co	mg/Nm ³	BDL*	
14	Chromium as Cr	mg/Nm ³	0.032	
15	Copper as Cu	mg/Nm ³	0.066	
16	Manganese as Mn	mg/Nm ³	0.041	
17	Nickel as Ni	mg/Nm ³	0.012	
18	Vanadium & their compounds	mg/Nm ³	BDL*	
19	Total Dioxin & Furans	ng/Nm ³	0.002	
20	Volatile organic compound	µg/Nm ³	BDL*	SOP:Stack-VOC-1 (Ref.: Method 0030)
21	Temperature of Flue Gas	°C	116	IS:11255 (Part-3) : 1985
22	Velocity of flue Gas	m/sec	13.36	
23	Oxygen as O ₂	%	11.6	SOP: Stack-Oxygen-1 (Ref.: Digital Gas Analyzer)

BDL* : Below Detectable Limit. ** Details provided by customer. Results on 11 % O₂ Correction when Oxygen is greater than 11 %


H. T. Shah
Lab Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

TEST CERTIFICATE

QR/5.10/01

Customer's Name and Address :

Page: 1 of 1

M/s. LAFARGE INDIA PVT. LTD. SONADIH CEMENT WORKS, SONADIH, CHHATTISGARH, INDIA.	Test Report No. :	PL/LI 0005
	Issue Date :	22/05/2015
	Customer's Ref. :	P.O. No. 14450537 Date: 28.04.2014


STACK DETAILS

Sampling Location :	LINE 2 (RAW MILL & KILN)	Sampling Procedure :	As per table
Sampling By :	Pollucon Laboratories Pvt. Ltd.	Sampling port Height from Ground Level** :	94.5 Meter
Date of Sampling :	28/04/2015	Fuel Used** :	TDI tar also along with Waste mix solids+ Waste mix liquids
Date of Completion :	19/05/2015	Cross Section Area (m ²) :	15.89
Lab ID/subcontract :	LI/1504/9-15	Stack Diameter** :	4.5 Meter

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	TEST/SAMPLING METHOD
1	Sulfur Dioxide as SO ₂	mg/Nm ³	6.53	IS:11255 (Part-2) : 1985
2	Oxides of Nitrogen as NO _x	mg/Nm ³	916	IS:11255 (Part-7) : 2005
3	Carbon Monoxide as CO	mg/Nm ³	310	SOP:Stack-CO-1 (Ref.: USEPA Method 60 App. A-0010B)
4	Hydrochloric Acid as HCl	mg/Nm ³	18.6	SOP:Stack-HCl-1 (Ref.: USEPA Method 26A)
5	Hydrogen Fluoride as HF	mg/Nm ³	1.9	IS:11255 (Part-5) : 1990
6	Total Organic Carbon as TOC	mg/Nm ³	4.1	SOP:Stack-TOC-1 (Ref.: USEPA/600/R-96/033)
7	Cadmium as Cd	mg/Nm ³	BDL*	SOP: Stack-Heavy Metal-1 (Ref.: USEPA Method 29)
8	Th & their compounds	mg/Nm ³	BDL*	
9	Hg & it's compound	mg/Nm ³	BDL*	
10	Antimony Sb	mg/Nm ³	BDL*	
11	Arsenic as As	mg/Nm ³	BDL*	
12	Lead as Pb	mg/Nm ³	0.0123	
13	Cobalt as Co	mg/Nm ³	BDL*	
14	Chromium as Cr	mg/Nm ³	0.037	
15	Copper as Cu	mg/Nm ³	0.089	
16	Manganese as Mn	mg/Nm ³	0.024	
17	Nickel as Ni	mg/Nm ³	0.068	
18	Vanadium & their compounds	mg/Nm ³	BDL*	
19	Total Dioxin & Furans	ng/Nm ³	0.0069	SOP:Stack-VOC-1 (Ref.: Method 0030)
20	Volatile organic compound	µg/Nm ³	BDL*	
21	Temperature of Flue Gas	°C	108	IS:11255 (Part-3) : 1985
22	Velocity of flue Gas	m/sec	11.60	
23	Oxygen as O ₂	%	8.3	SOP: Stack-Oxygen-1 (Ref.: Digital Gas Analyzer)

BDL* Below Detectable Limit. **Details provided by customer. Results on 11 % O₂ Correction when Oxygen is greater than 11 %


H. T. Shah
Lab Manager

Dr. Arun Bajpai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

M/s Lafarge India Pvt. Ltd.
Sonadih Cement Plant,
Dist. - Balodabazar-Bhatapara

Date	Description	Result	
		Particulate Matter	Opacitymeter reading
26.08.2015	Raw Mill/Kiln (Line - 1 & 2)	41.88	28.0
31.12.2015	Raw Mill/Kiln (Line - 2)	30.28	24.8



ANNEXURE - R4/B5

ANNEXURE - E2

M/s Ambuja Cement Eastern Ltd.,
Post. - Rawan, Dist. - Balodabazar-Bhatapara

Date	Description	Result	
		Particulate Matter	Opacitymeter reading
25.08.2015	Raw Mill/Kiln (Line - 2)	40.03	38.0



SGS

ANNEXURE - R4/B6

Annexure - F2

**ANNUAL SPOT EMISSION MEASUREMENTS
ACC LIMITED,
UNIT: JAMUL CEMENT WORKS**

**ACC LIMITED
UNIT : JAMUL
PO: JAMUL
DIST: DURG - 490024
CHHATTISHGARH**

Prepared By

**SGS India Pvt. Ltd.,
250, Udyog Vihar,
Phase - IV, Gurgaon
Haryana - 122015**

2014



**EMISSION MEASUREMENT ON THE KILN - 3
ACC LIMITED,
JAMUL, CHHATTISHGARH**

CLIENT:

Acc Limited
Unit : Jamul Cement Works
P.O.- Jamul
Dist. - Durg
Chhattisgarh - 490024

TYPE OF MEASUREMENT:

Emission Monitoring of Kiln Stack # 3 &
CEMs Comparison Test

DATE OF THE MEASUREMENT:

4/11/2014 TO 5/11/2014

AUTHOR:

Mr. Utpal Mazumder

.....
Amit Ranjan
Asst. Manager- Operation
SGS India Pvt Ltd

.....
Utpal Mazumder
Manager- Operation
SGS India Pvt Ltd

3 | Page

ACC ACC limited
JAMUL CEMENT WORKS KILN 3

1 SUMMARY OF RESULTS

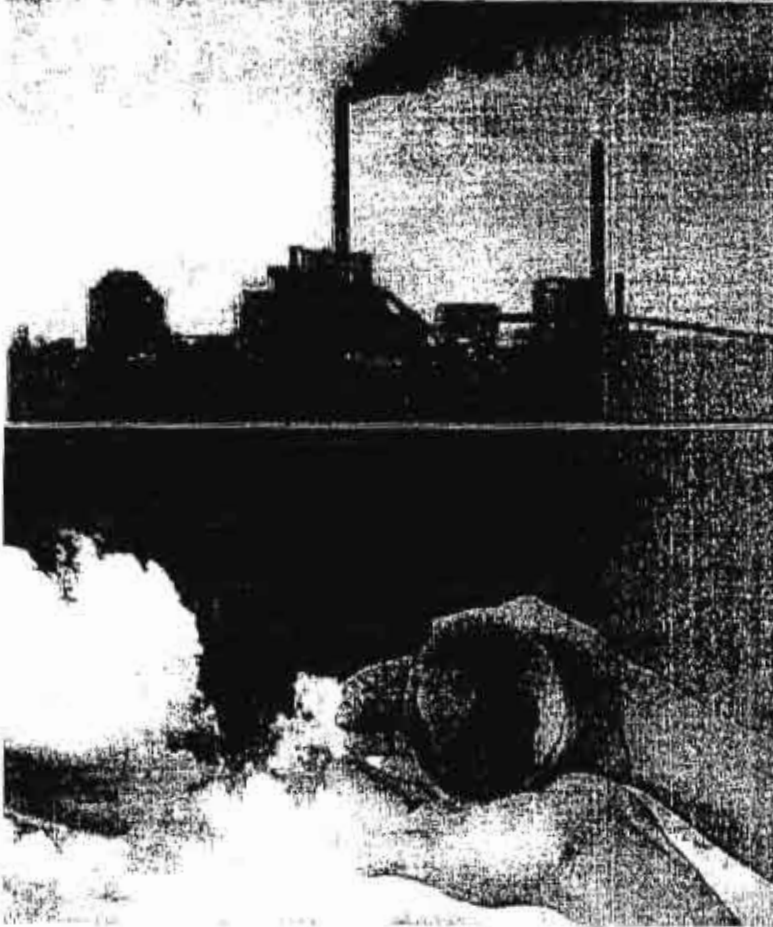
PARAMETER	MODE	AVERAGE		UNITS
		TH	CEMS	
Oxygen	DOM	5.55	5.05	%
Volatile Organic Compounds	DOM	47.62	78.08	mgC/m ³ _{n,dry} at 10% O ₂
Carbon Monoxide	DOM	3704.51	3706.46	mg/m ³ _{n,dry} at 10% O ₂
Oxides of Nitrogen (NOx)	DOM	284.24	240.07	mg/m ³ _{n,dry} at 10% O ₂
Dust	DOM	6.14	11.47	mg/m ³ _{n,dry} at 10% O ₂
Sulphur Dioxide	DOM	28.40	26.60	mg/m ³ _{n,dry} at 10% O ₂
Hydrochloric Acid	DOM	2.47	2.82	mg/m ³ _{n,dry} at 10% O ₂
Ammonia	DOM	10.66	13.08	mg/m ³ _{n,dry} at 10% O ₂
Benzene	DOM	<1.00	NA	mg/m ³ _{n,dry} at 10% O ₂
Dioxin & Furan	DOM	0.0020	NA	ngTEQ/m ³ _{n,dry} at 10% O ₂
Mercury	DOM	<0.50	NA	µg/m ³ _{n,dry} at 10% O ₂
Antimony	DOM	<5	NA	µg/m ³ _{n,dry} at 10% O ₂
Arsenic	DOM	<0.5	NA	µg/m ³ _{n,dry} at 10% O ₂
Cadmium	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Chromium	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Cobalt	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Copper	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Lead	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Manganese	DOM	9.78	NA	µg/m ³ _{n,dry} at 10% O ₂
Nickel	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Thallium	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Vanadium	DOM	1.37	NA	µg/m ³ _{n,dry} at 10% O ₂
Zinc	DOM	4.29	NA	µg/m ³ _{n,dry} at 10% O ₂

DOM: Direct Operating Mode

SGS

2015

**ANNUAL SPOT EMISSION MEASUREMENT
KILN 3
ACC LIMITED - JAMUL CEMENT WORKS**



Mirnal Mallik
ACC Limited
ACC India Pvt. Ltd. 226, Uday Vihar
Phase - I, Gurgaon, Haryana - 122015

**EMISSION MEASUREMENT OF
JAMUL CEMENT WORKS,
JAMUL
CHAATTISGARH**

CLIENT	ACC LIMITED Unit: Jamul Cement Works P.O. - Jamul Dist. - Durg State - Chhattisgarh
TYPE OF MEASUREMENT	Emission Monitoring of Kiln Stack
DATE OF MEASUREMENT	24/11/2015
AUTHOR	Dr. Minal Malik

This report is approved by

Dr. Minal Malik
Technical Manager
SGS India Pvt Ltd

Amit Ranjan
Asst Manager
SGS India Pvt Ltd

1 SUMMARY OF RESULTS

PARAMETER	MODE	AVERAGE		UNITS
		TH	CEMS	
Oxygen	DOM	6.74	6.25	%
Carbon dioxide	DOM	19.13	19.17	%
Volatile Organic Compounds	DOM	190	192	mgC/m ³ _{n,dry} at 10% O ₂
Carbon Monoxide	DOM	7139.43	4461.28	mg/m ³ _{n,dry} at 10% O ₂
Oxides of Nitrogen (NOx)	DOM	167.81	176.66	mg/m ³ _{n,dry} at 10% O ₂
Dust	DOM	19.12	24.70	mg/m ³ _{n,dry} at 10% O ₂
Sulphur Dioxide	DOM	40.94	41.03	mg/m ³ _{n,dry} at 10% O ₂
Hydrochloric Acid	DOM	2.59	3.67	mg/m ³ _{n,dry} at 10% O ₂
Hydrogen Fluoride	DOM	<0.5	NA	mg/m ³ _{n,dry} at 10% O ₂
Ammonia	DOM	11.42	15.07	mg/m ³ _{n,dry} at 10% O ₂
Benzene	DOM	<1.00	NA	mg/m ³ _{n,dry} at 10% O ₂
Dioxin & Furan	DOM		NA	ngTEQ/m ³ _{n,dry} at 10% O ₂
Mercury	DOM	1.14	NA	µg/m ³ _{n,dry} at 10% O ₂
Antimony	DOM	<5	NA	µg/m ³ _{n,dry} at 10% O ₂
Arsenic	DOM	<0.5	NA	µg/m ³ _{n,dry} at 10% O ₂
Cadmium	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Chromium	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Cobalt	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Copper	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Lead	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Manganese	DOM	13.75	NA	µg/m ³ _{n,dry} at 10% O ₂
Nickel	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Thallium	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Vanadium	DOM	<1	NA	µg/m ³ _{n,dry} at 10% O ₂
Zinc	DOM	3.45	NA	µg/m ³ _{n,dry} at 10% O ₂

DOM: Direct Operating Mode

**Comparative Chart of M/s. A.C.C. Limited Jamul Cement Works,
Jamul, Distt. Durg. Year 2014-15**

Year 2014

S.No.	Month	Name of Monitoring Place	Parameter			
			Stack	Ambient		
			PM (mg/Nm ³)	SPM (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)
1	February 2014	Power plant boiler no.2 Stack	33.74	-	-	-
		Raw Mill No. 1 Stack	22.01	-	-	-
		Kiln no. 3 stack	45.50	-	-	-
		Cement mill no. 1 stack	34.61	-	-	-
		Cement mill no. 5 stack	34.61	-	-	-
2	June 2014	Cement mill no. 3 stack	36.45	-	-	-
		Kiln no. 3 (bag house)	39.69	-	-	-
		Power plant boiler no.1 stack	47.53	-	-	-
3	October 2014	Cement mill no. 1 stack	32.62	-	-	-
		Cement mill no. 6 stack	41.60	-	-	-
		Kiln no. 3 stack	27.46	-	-	-
		Power plant boiler no.1 stack	41.62	-	-	-

Year 2015

S.No.	Month	Name of Monitoring Place	Parameter			
			Stack	Ambient		
			PM (mg/Nm ³)	SPM (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)
1	January 2015	Cement mill stack no. 1	44.09	-	-	-
		Cement mill stack no. 2	47.02	-	-	-
		Cement mill stack no. 3	48.72	-	-	-
		Raw mill stack no. 1	38.65	-	-	-
		Raw mill stack no. 3	42.33	-	-	-
		Near Hanuman temple	-	475.84	22.5	28.96
		Near captive plant	-	543.47	22.75	29.72
2	July 2015	Kiln 3 (Bag house) stack	47.21	-	-	-
		Cement mill stack no. 2	39.30	-	-	-
		Cement mill stack no. 3	38.66	-	-	-
		Raw mill stack no. 3	40.43	-	-	-
		Coal mill no. 1 stack	41.99	-	-	-

ANN - R4/C1

AMBUCB

Ambuja Cement

ACL/EMD/CECB/2016/19

Date: 12/02/2016

To,

The Member Secretary
Chhattisgarh Environment Conservation Board
Commercial Complex
Chhattisgarh Housing Board Colony
Kabir Nagar, Raipur (C.G.)

Subject: Details of Hazardous Waste Inventory

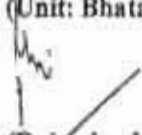
Dear Sir,

With reference to the above subject matter, we are submitting the desired information in the given format.

This is for your kind information please.

Thanking you

Yours faithfully
For AMBUJA CEMENTS LIMITED
(Unit: Bhatapara)


(Rajendra Kabra)
Operations Head

Encl: as above

AMBUJA CEMENTS LIMITED

(Unit: Bhatapara)

P.O. Rawan, Tehsil Baloda Bazar, Dist. Baloda Bazar 493 331 (C.G.)
Ph.: 07727-220010 to 15, Fax: 220004

Hazardous Waste Inventory

Ambuja Cement Limited (Unit: Bhatapara)
P.O. Rawan, Tehsil Baloda Bazar, Dist. Baloda Bazar
(C.G.) - 493 331

Sl.No	Name of Hazardous Waste	Cat. No	Source of Hazardous Waste	Quantity of Co - Processing Hazardous Wastes		Coproprocessing Date	
				During Trial Run (MT)	Regular Co - Processing (MT)	From	Till Date
1	Mixture of process & Utility sludge	34.3	MCC PTA India Corp. Private Limited	67.59	14475.01	21/12/2010	31/1/2015
2	Scrap PTA	33.1/C	MCC PTA India Corp. Private Limited	13.94	218.13	21/12/2010	31/1/2015
3	Oil Soaked Cotton Waste	5.2	MCC PTA India Corp. Private Limited	0.16	17.55	21/12/2010	31/1/2015
4	Empty PTA Contaminated Liner	33.3	MCC PTA India Corp. Private Limited	0.778	12.43	21/12/2010	31/1/2015
5	Process sludge	1.4	MCC PTA India Corp. Private Limited	153.21	NIL	21/12/2010	31/1/2015
6	Evaporation Salts	34.3	Dr. Reddy's Laboratories Ltd.	66.51	NIL	28/1/2015	31/1/2015
7	ETP Sludge	34.3	Dr. Reddy's Laboratories Ltd.	49.64	NIL	28/1/2015	31/1/2015
8	Spent Carton	28.2	Dr. Reddy's Laboratories Ltd.	16.395	NIL	28/1/2015	31/1/2015
9	Used PPE	33.3	Dr. Reddy's Laboratories Ltd.	4.755	NIL	28/1/2015	31/1/2015
10	FE Salt	34.3	Dr. Reddy's Laboratories Ltd.	7	NIL	28/1/2015	31/1/2015
11	Tharmocal Waste	36.5	Dr. Reddy's Laboratories Ltd.	1.02	NIL	28/1/2015	31/1/2015
12	Chemical Sludge	34.3	Kalpataru Power Transmission Ltd.	199.91	NIL	27/5/2015	30/5/2015
13	Wet Chemical Sludge from ETP	29.2	Syngenta India Ltd.	79.6	21	18/12/2012	10/1/2015
14	Pesticides waste residue	29.1	Syngenta India Ltd.	32.14	NIL	18/12/2012	20/12/2012
15	Date expired/Off specification Pesticides	29.3	Syngenta India Ltd.	37.46	NIL	18/12/2012	20/12/2012
16	Mix Waste (Date expired/discarded/ Off specification drugs/Medicine; Residue & Waste; Spent catalyst (Spent Carbonel), Distillation residue)	28.4; 28.1; 28.2; 20.3	Ranbaxy Ltd	49.68	NIL	4/11/2013	7/11/2013

Gujarat Pollution Control Board

Point wise remarks w.r.t. Shweta Narayan v/s UOI matter

Sr. No.	Point raised	Remarks
1	Grant and Renewal of registration/ authorization	<ul style="list-style-type: none">In Gujarat State total nine cement plants have been granted authorization for co-processing of waste. Out of which three plants are utilizing hazardous waste in cement kiln and the other six cement plants are using waste as raw material. The list is attached as Annexure R-5/A1
2.	Emission Monitoring and compliance	<ul style="list-style-type: none">The board is conducting regular inspections to monitor AFR section and EMS of the cement plants.Non-compliance was not observed due to co-processing of hazardous waste in last year.Three cement industries have installed CEMS as per the direction given by the Board.The Board has issued Show cause notices mainly for dusting, and poor handling of materials in storage area and the compliance of the same is verified by the Board. The details are attached as Annexure- R-5/A2All cement industries are directed to submit manifest to the Board.
3.	Inventorisation of waste	<ul style="list-style-type: none">Monthly data of waste utilization in co-processing is maintained by the Board. The details of waste co processing is as per Annexure- R-5/A3
4.	Training and	<ul style="list-style-type: none">GPCB is regularly conducting awareness program,

	Awareness	environmental clinics and joint meetings with waste generator and cement industries to enhance concept of co-processing. The details of the same is attached as Annexure- R5/A4
5.	Valid recognition of environmental laboratories	<ul style="list-style-type: none"> The Central Laboratory Gandhinagar and laboratories of regional offices at Bharuch, Rajkot, Surat, Vapi, Jamnagar have applied for recognition under section 12 of Environment Protection act 1986. The application is under progress as the query raised by CPCB.
6.	Identification of site for TSDF	<ul style="list-style-type: none"> As per Schedule-VII of Hazardous waste (M&H) Rules 2008 site identification and notification shall be issued by the state govt. for TSDF sites. Total six TSDF are in operation, three are closed and five TSDF are in pipeline. Necessary permission will be issued by the Board after Environmental Clearance is granted. As per waste management hierarchy co-processing of waste is proven sustainable development concept that reduces demands on natural resources, reduces pollution and landfill space, thus contributing to reduce the environmental footprint. Co-processing of waste shall be promoted so as to reduce burden on the landfills.
7.	Compliance with EIA notification 2006	<ul style="list-style-type: none"> Co-processing is only an alternative change of fuel and/or raw material. There is no change in production capacity. No provision for co processing of Hazardous waste is mentioned in the schedule of EIA notification 2006. Hence, in our opinion EC is not attracted for co-processing of hazardous waste.

Annexure-R-5/A1

List of Cement Industries Granted Authorization For Co-processing of Hazardous Waste in Kiln and Raw Material.	
1.	Ambuja Cements Ltd. Plot.No.321 to 350, 282, 284, 285, 288, Gajambuja Unit, Ambujanagar, Ta: Kodinar, Dist-Gir-Somnath-362715
2.	Ultratech Cement Limited Sr. No. 164, 268 & 270, Vill: Kovaya, Ta. Rajula, Dist. Amreli
3.	Sanghi Industries Limited, PO: Sanghipuram, Tal:Abadasa, Dist: Kutch
List of Cement Industries Using Hazardous Waste as Raw Material.	
4.	Ultra Tech Cement Ltd. Unit- Narmada Cement, Jafarabad Works, Vill: Babarkot Ta : Jafrabad, Dist: Amreli.
5.	Ultra Tech Cement Ltd. Unit- Sewagram Cement Works Kutch
6.	Gujarat Sidhee Cement Limited, Sidheegram, Off Veraval-Kodinar Highway, Tal:Sutrapada, Dist: Junagadh – 362 276
7.	Shree Digvijay Cement Co. Ltd., S.R. No. 44,43,28,23,4249,48,4546,47,5051/1, 51/2,52,53, Digvijay Gram, At- Sikka, Ta & Dist: Jamnagar
8.	Saurashtra Cement Ltd., Ranavav, Tal: Ranavav, Dist Porbandar
9.	Hi-Bond Cement (India) Pvt. Ltd., Hi Bond Nagar, Survey No.315,316,317, Rajkot-Porbandar Highway, Gomta Chokdi, At: Patidad – 360311, Tal: Gondal, Dist: Rajkot

Annexure-R-5/A2

Sr.no	Name of Cement Plant	Inspection Details/ Action taken by the Board	Compliance
1	Ambuja Cements Ltd., plot.no.315-320,351, 352, 395-401, Ambujanagar, Ta.: Kodinar, Dist.:Gir-Somnath- 362715	GPCB inspected the unit dated 13-11-2014 and 12/12/2014 and Show Cause Notices were issued dated 12-12-2014 and 26/2/2015 due to dusting and poor handling in coal storage area.	All the instructions of SCN dated: 12-12-2014 & 26-02-2015 were complied during visit 17/12/2015 . No any adverse remarks were found during visit.
2	Ultratech Cement Ltd., (Gujarat Cement Works), Sr.No. 168,268&270 Vill.- Kovaya, Ta. Rajula, Dist. Amreli.	GPCB inspected the unit dated 13-04-2015 and 21-08-2015 and had issued Show Cause Notice on date 01-05-2015 and 19/9/2015 respectively due to dusting observed on open Conveyor belt and as Guideline of Coal Handling were not followed.	During inspection dated 12/10/15 and 9/12/2015, no adverse remarks were observed and analysis report of stack sampling was found within permissible limit.

Annexure- R5/A3

Details of Co-processing of Waste (in MT)
(From 2009 to Dec. 2015)

Waste Co-processed as Fuel Incinerable	2,27,500 MT
Waste Co-processed as Fuel Landfillable	12,06,710 MT
Waste utilized as Raw Material	50,82,201 MT
Total	65,16,411 MT

Annexure R5/A4

Sr. No.	Details of meeting	Remarks
1	Meeting held on 4/9/2014 , at GPCB, Gandhinagar with Paper Mills of Vapi and Association under the Chairmanship of Member Secretary GPCB	<p>Following decisions were taken:</p> <ul style="list-style-type: none"> • All paper mills were directed to reduce the moisture content of plastic waste below 20% and to maintain criteria as per Annexure-5 of CPCB guidelines for co processing • All paper mills were informed to send their plastic waste to cement industries or routed through Interim Storage facilities for co processing
2	Meeting held on 3/1/2015 , at GPCB, Gandhinagar under the Chairmanship of Chairman, GPCB. Stakeholders i.e. representatives from Gujarat Urban Development Authority , All Municipal Corporations, Cement industries, Facility Operators for MSW treatment were present in the meeting	<p>Following decisions were taken to increase co-processing of MSW:</p> <ul style="list-style-type: none"> • All Municipal Corporations were informed to segregate plastic waste from MSW and sent for Co-processing • Facility operators engaged in MSW treatment were directed to prepare RDF from MSW and sent for co processing
3	Meeting held on 18/12/2015 , at GPCB, Gandhinagar with Cement Industries and municipal corporations under the Chairmanship of Member Secretary GPCB	<p>Following decisions were taken to increase co-processing of MSW:</p> <ul style="list-style-type: none"> • Progress report of earlier meeting were reviewed and it was decided to convene this meeting once in every three months. • All cement industries were asked to submit progress report to achieve 10% TSR.



मध्यप्रदेश प्रदूषण नियंत्रण बोर्ड

पर्यावरण परिसर, ई-5, अरेरा कालोनी, भोपाल (म.प्र.) - 462016

☎(0755)2464428, 2466191 Fax: 0755-2463742 e-mail:it_mppcb@rediffmail.com www.mppcb.nic.in

क्रमांक — 604 /एनजीटी-178/प्रनिबो/2016

भोपाल, दिनांक 06/02/2016

प्रति,

श्री पी. के. गुप्ता,
अपर संचालक,
केन्द्रीय प्रदूषण नियंत्रण बोर्ड,
परिवेश भवन, पूर्वी अर्जुन नगर,
दिल्ली-110032

विषय:- राष्ट्रीय हरित अधिकरण की दिल्ली बेंच में प्रचलित प्रकरण ओ.ए. क्रमांक 178/2014 स्वेता नारायण विरुद्ध भारत संघ व अन्य में पारित आदेश के परिप्रेक्ष्य में सीमेंट उद्योगों में को-प्रोसेसिंग संबंधी बैठक ।

सन्दर्भ :- आपका पत्र क्रमांक बी-33014/7/2016/पीसीआई-2, दिनांक 01/02/2016

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कृपया संदर्भित पत्र का अवलोकन हो प्रकरण के संबंध में प्रस्तावित बैठक दिनांक 08/02/2016 में अधोहस्ताक्षरकर्ता द्वारा भाग लिया जावेगा। संदर्भित पत्र के साथ प्राप्त प्रपत्र जिसमें प्रकरण के आवेदक द्वारा जानकारी चाही गई थी पर दस्तावेजों सहित टीप संलग्न कर सूचनार्थ व आवश्यक कार्यवाही हेतु प्रेषित है।

संलग्न :- उपरोक्तानुसार ।

सक्षम अधिकारी द्वारा अनुमोदित

(एच.एस. मालवीय)

अधीक्षण यंत्री

मो. 09425017278, का. 0755-2466191

Information pertaining to Coprocessing of wastes in Cement kilns in MP

<p>Name of Cement plants</p>	<p>Grant and renewal of Registration authorization Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008</p>	<p>Emission Monitoring & Compliance Rule 6, 18, 24 & Schedule VII r/w Rule of the Hazardous waste Rules 2008</p>	<p>Inventorisation of of Waste Rule 5(6), 8(7) & 22(3) & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008</p>	<p>Training and Awareness Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008</p>	<p>Valid Recognition of Environmental Laboratories Section 12 of the EPA 1986</p>	<p>Identification of site for TSDF Schedule VII r/w Rule 23 of the Hazardous waste rule</p>	<p>Compliance with EIA Notification 2006</p>
<p>A. M/s ACC Limited kymore Katni</p>	<p>1-Authorization under Rule 5 of the Hazardous Waste Rules 2008 Ho. Letter outward No. 22632 dated 05-11-2015 valid up to 16/10/2020 Annexure- R-7/A1</p>	<p>Emission Monitoring online data available at Annexure- R-7/A1</p>	<p>Board's inventory is available on official website- www.mppcb.nic.in, Form-4 for the unit is attached at Annexure- R-7/A3</p>	<p>Related to CPCB however officials of MPPCB trained through various in-house and external agencies in the country & abroad Annexure- R-7/A4</p>	<p>Central Laboratory of MPPCB at Bhopal is approved under EPA Annexure- R-7/A5</p>	<p>This unit is a cement plant not the CTSDF.</p>	<p>NA, related to MoEFCC</p>

R-7/3 Ultratech Cement Ltd. Khor, Neemuch	1-Authorization under Rule 5 of the Hazardous Waste Rules 2008. Ho. Letter outward No. 22561 dated 25-10-2015 valid up to 08/10/2020 Annexure- R-7/B1	Emission Monitoring online data available at Annexure- R-7/B2	Board's inventory is available on official website- www.mppcb.nic.in, Form-4 for the unit is attached at Annexure- R-7/B3	Related to CPCB however officials of MPPCB trained through various in-house and external agencies in the country & abroad Annexure- R-7/B4	Central Laboratory of MPPCB at Bhopal is approved under EPA - Annexure- R-7/B5	This unit is a cement plant not the CTSDF.	NA, related to MoEFCC
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Point wise comments of MPPCB on common observations:

1. The affidavit is filed with relevant information.
2. The copies of authorisation of MPPC & permission issued by CPCB to cement units are file as R7/3, R7/4, R7/5 & R7/6.
3. Air quality monitoring data is attached at A2 & B2.
4. Matter of EC pertains to MoEFCC.
5. Board's inventory is available on official website-www.mppcb.nic.in and are regularly submitted to CPCB.
6. No such situation arised.

Amreshwar R/A1



Authorization Order

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

KED-LARGE	CCA-Renewal	VALIDITY (H): 16/10/2020	CONSENT NO: H-44850	PCB ID: 16360
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NO: H-44850/MPPCB/KAT

Dated: 03/11/2015

To,

M/s. A.C.C. Ltd. (1.815 MTPA Plant-Stream-I),

, Kymore, Katni,

City : Kymore,

Dist : Katni, Tal : Vijayraghgarh, SIDC : Not In SIDC

Subject: Grant of Authorization under Hazardous Waste (Management handling & Transboundary movement) Amended Rule, 2008

Ref: Your Consent to Operate Application Receipt No. 121372 Dt. 17/09/2015 and last communication received on DL10/09/2015

With reference to your above application for HW Authorization has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant authorization upto 16/10/2020, subject to the fulfillment of the terms & conditions, enclosed with this letter

SUBJECT TO THE FOLLOWING CONDITIONS :-

- Location: Kymore, Katni., Kymore, Vijayraghgarh, Katni, Contact No. 9893405218
- The capital investment in lakhs: 30104020

Enclosures:-

- * Conditions under Hazardous Rules
- * General conditions

ACHYUT ANAND
MISHRA
Officer in Charge
Pollution Control Board
Bhopal

Outward No:22632,05/11/2015



Authorization Order

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

CONDITIONS PERTAINING TO HAZARDOUS WASTE (MANAGEMENT, HANDLING AND TRANSBOUNDARY MOVEMENT) RULES 2008:

[See rule 5 (4)]

FORM-2

FORM FOR GRANT/RENEWAL OF AUTHORISATION BY M.P. POLLUTION CONTROL BOARD FOR OCCUPIERS, RE-USERS AND OPERATORS OF FACILITIES FOR COLLECTION, TREATMENT, STORAGE, TRANSPORT, AND DISPOSAL OF HAZARDOUS WASTE

1. The operator of facility, i.e. occupier A.C.C. Ltd. (1.815 MTPA Plant-Stream-1) is hereby granted the authorization to operate a facility for collection, reception, treatment, storage, transport and dispose of Hazardous waste to be generated and disposed to the tune mentioned in table below on the premises situated at -, Kymore, Katni. Kymore, Vijayraghgarh, Katni, Phone No. -

2. The authorization granted to operate a facility for generation, collection, reception, storage and transport of hazardous waste

Hazardous Waste	Waste Stream	Qty/Year	Method of Storage	Method of Disposal
Phosphate Sludge	1 -12.5	217.520-M.T	Phosphate Sludge (Automobile Industry)	COL,DSI,REC,STO,TRA,TRT
process Wastes,Residues and sludges	1 -21.1	1400.000-M.T	Paint Sludge (Automobile Industries) of M/s Automobile Industries M.P.	COL,DSI,REC,STO,TRA,TRT
Spent Catalyst / Spent Carbon	1 -28.2	100.000-M.T	Spent Carbon (Soft Drink Industry)	COL,DSI,REC,STO,TRA,TRT
Chemical Sludge From Waste Water Treatment	1 -34.3	264.000-M.T	ETP Sludge (Automobile Industry)	COL,DSI,REC,STO,TRA,TRT
Chemical Sludge From Waste Water Treatment	1 -34.3	50.000-M.T	WTP sludge (Soft Drink Industry)	COL,DSI,REC,STO,TRA,TRT
Chemical Sludge From Waste Water Treatment	1 -34.3	200.000-M.T	ETP (Chemical) Sludge of M/s Godrej Consumer Product Limited, Malangur M.P.	COL,DSI,REC,STO,TRA,TRT
Chemical Sludge From Waste Water Treatment	1 -34.3	250.000-M.T	5000MT stored in Captive SLF of M/s KEC International to be feeded Max @ 2.3% of Total Fuel	COL,DSI,REC,STO,TRA,TRT
Chemical Sludge From Waste Water Treatment	1 -34.3	50.000-M.T	ETP BioSolids sludge (Soft Drink Industry)	COL,DSI,REC,STO,TRA,TRT
Oily Sludge Emulsion	1 -4.1	850.000-M.T	Petroleum Refining Sludge (Petroleum Refinery) of M/s Petroleum Refinery in M.P.	COL,DSI,REC,STO,TRA,TRT
Used Spent Oil	1 -5.1	2.500-M.T		COL,DSS,SAR,STO,RRR,TRA
Wastes Residues Containing Oil	1 -5.2	0.012-M.T		COL,DSI
Wastes Residues Containing Oil	1 -5.2	200.000-M.T	Oily Rags (Automobile Industries)	COL,DSI,REC,STO,TRA,TRT
Wastes Residues Containing Oil	1 -5.2	70.000-M.T	Lube/ Fuel Oil filter Waste of M/s Diesel Loco Shed Itarsi & Katni Unit (M.P.)	COL,DSI,REC,STO,TRA,TRT

3. The waste specified under hazardous waste stream as mentioned above shall be stored as per MoEF and CPCB guidelines issued time to time and disposed off as indicated in above table at SL. No. 3 as Hazardous Waste (Management handling & Transboundary movement) Amended Rule, 2008 sub Rule 7 (1).

4. The authorization shall be in force for a period of Five years from 17/10/2015-16/10/2020

5. The industry shall take all the steps wherever required, for reduction of the waste generated or for recycling or reuse.

6. The industry shall display the information on hazardous waste generated on notice board of size 6' x 4' (in Hindi & English) outside the unit main gate along with quantity and nature of hazardous chemicals being handled in the plant, including wastewater, air emission and hazardous wastes.

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7. The authorization is subject to the terms & conditions as given below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986. Violation of any of the conditions shall be liable for legal action as per provisions under Environment (Protection) Act, 1986.

Terms and Condition Of Authorisation

1. The authorisation shall comply with the provision of Environment (Protection) Act, 1986 and the rules made there under.

2. The authorisation or its renewal shall be produced during inspection on the request of the inspecting officer authorized by the State Pollution Control Board.



Authorization Order

M.P. Pollution Control Board
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Tele : 0755-2466191, Fax-0755-2463742

3. The authorized person shall not rent, lend, sale, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the State Pollution Control Board.
4. If the industry comes in such a category where insurance under Public Liability Insurance Act, is necessary, the industry shall comply with provision and submit a copy of the policy to the Board.
5. Any unauthorized change in production capacity, process, raw materials, personnel, equipments etc. as mentioned in the application by the person authorized shall constitute a breach of this authorisation.
6. The unit should maintain the records of hazardous wastes as per the Form-3 of rule 9 (1) and should online submit the annual return in Form No.4 as per the rule 9 (2) to this office on or before 31st January every year.
7. Details of auction/sale of non-ferrous hazardous waste should be submitted online in form no.13 to this office annually.
8. An on-site storage for waste for a maximum period of one year or a maximum quantity of 10 MT, whichever is less, should be provided and it shall be ensured that there is no leakage or seepage or spillage from surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rainwater in storage area.
9. It is the duty of authorized person to take prior permission of the M.P. Pollution Control Board to close down the facility.
10. The information regarding quantity of hazardous wastes generated and its analysis report should be sent to the Board online quarterly.
11. Hazardous Waste Storage Site & Danger signboard shall be provided with all safety devices at the storage site.
12. The authorized person should inform the name and address of the contact person responsible for hazardous waste management.
13. In case of importing Hazardous Waste, occupier shall apply to the M.P. Pollution Control Board, 180 days in advance in Form-6, for permission to import of the waste as per Rule 13 (i) of Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008 as amended up to date.
14. In the event of any accident due to handling of hazardous wastes, the authorized person must inform immediately to the Regional Office & Head office of the board on Fax/telephone/email-it_mppcb@rediffmail.com about the incident and detail report should be sent in Form No.5 as per rule -10 of Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008 as amended up to date.

Additional Haz condition:- (if any) :-

Specific Conditions:-

1. The industry shall strictly follow the Guidelines for co-processing published by CPCB.
2. The industry shall comply all the conditions mentioned in CPCB letter regarding regular permission for co-processing of waste.
3. The generator/Co-processor is responsible and shall take all necessary precautions while collection, transportation, storage and co-processing of the said waste.
4. The waste of Cat 5.2 shall be used for co-processing in the Cement Kiln or to be disposed off in the CTSDF, Pithampur.
5. The waste of Cat 5.1 shall be sold to the authorised re-processor/ recycler registered with CPCB/SPCB.

Note :-

1. The authorization issued vide Board's letter No. 1249-50 Dt. 20.11.2014 shall be stand cancelled after implementation of this Authorisation.

Outward No:22632, 05/11/2015



Authorization Order

M.P. Pollution Control Board
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Paryavaran Parisr, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

GENERAL CONDITIONS:

1. The non hazardous solid waste arising in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal
Scrip/ Plastic packing material wood, card board, gunny bags etc		Sale to authorized party/As Per CPCB, MoEF Guide lines.

2.

The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

- To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
- To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
- To sample at reasonable times any discharge or pollutants.

3. This consent/authorisation is transferable, in case of change of ownership/management and addresses of new Owner/partner/Directors/proprietor should immediately apply for the same

4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

5. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of HW (M, H & T) Rules 2008 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per here Act / Rules.

6. Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date.

7. The applicant shall submit such information, forms and fees as required by the board not later than 180 day prior to the date of expiration of this consent/authorisation

8. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.

9.

After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following :

- Violation of any terms and conditions of this Consent.
- Obtaining this Consent by misrepresentation or failure to disclose fully all relevant facts.
- A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

10. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

utward No:22632, 05/11/2015



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Additional condition:- (if any) :-

Consent/authorization as required under the Water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 and the Authorization under Hazardous Waste (Management handling & Transboundary movement) Amended Rule, 2008 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent/authorisation. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.



ACHYUT
ANAND
MISHRA

Digitally signed by ACHYUT ANAND
MISHRA
DN: cn=Achyut Anand Mishra, o=M.P. Pollution Control Board, email=achyut.anand@mppcb.org, c=IN

For and on behalf of
M.P. Pollution Control Board

(Member Secretary)

Outward No: 22632, 05/11/2015

Annexure A-2

Yearly Protokoll from 2015

ACC ACC Limited

ACC Kymore Works

generated: 1.01.2016

Month	ACCKY-K1 SO2 Month_Conc	ACCKY-K1 NO Month_Conc	ACCKY-K1 NO2 Month_Conc	ACCKY-K1 NOx Month_Conc	ACCKY-K1 CO Month_Conc	ACCKY-K1 HCl Month_Conc
	mg/Nm3.	mg/Nm3.	mg/Nm3.	mg/Nm3.	mg/Nm3.	mg/Nm3.
01.15	20.16	177.91	47.72	322.58	128.10	1.270
02.15	18.699	142.390	51.039	268.895	105.083	0.601
03.15	24.575	117.561	65.442	229.831	90.289	0.660
04.15	14.369	108.711	47.724	214.396	75.976	0.951
05.15	17.542	99.724	49.081	201.658	70.440	0.653
06.15	26.769	331.927	46.817	550.081	292.957	2.366
07.15	14.919	496.970	35.976	768.400	255.702	2.164
08.15	14.480	527.175	35.991	842.329	191.762	2.773
09.15	16.831	403.458	40.616	635.720	168.647	1.727
10.15	5.589	510.750	7.322	837.619	504.105	3.490
11.15	13.535	533.959	3.867	824.985	545.426	4.543
12.15	6.554	529.947	4.602	814.205	322.136	4.031
min	5.589	99.724	3.867	201.658	70.440	0.601
max	26.769	533.959	65.442	842.329	545.426	4.543
YMW	16.697	336.582	37.147	545.175	225.709	2.141

N = NoData

Yearly Protokoll from 2015

ACC ACC Limited

ACC Kymore Works

generated: 1.01.2016

Month	ACCKY-K1 NH3 Month_Conc	ACCKY-K1 CO2 Month_Conc	ACCKY-K1 Dust Month_Conc	ACCKY-K1 O2 Month_Conc	ACCKY-K1 H2O Month_Conc	ACCKY-K1 Flow Month_Conc
	mg/Nm3	Vol%	mg/Nm3	Vol%	%	m3/h
01.15	0.046	7.646	28.263	14.453	3.832	245547.09
02.15	0.734	6.699	32.870	13.580	4.347	275644.78
03.15	2.512	5.777	18.648	12.472	4.228	373049.18
04.15	0.914	5.482	15.863	11.518	4.858	384671.71
05.15	1.344	5.164	14.881	10.740	4.666	420148.62
06.15	3.002	13.063	18.338	11.226	10.761	382674.31
07.15	3.045	15.316	21.713	9.994	13.773	407044.96
08.15	2.878	14.708	29.943	10.499	13.056	381157.62
09.15	2.836	10.978	29.723	10.982	10.447	385135.43
10.15	3.722	14.920	5.765	9.072	12.703	476950.90
11.15	3.713	15.611	11.111	8.263	13.363	464680.18
12.15	2.314	14.470	14.649	8.176	12.617	461815.78
min	0.734	5.164	5.765	8.176	4.228	275644.78
max	3.722	15.611	32.870	13.580	13.773	476950.90
YMW	2.314	10.883	20.939	10.796	9.196	392420.56

N = NoData

Yearly Protokoll from 2015

ACC ACC Limited

ACC Kymore Works

generated: 1.01.2016

Month	ACCKY-K1 Temp	ACCKY-K1 Pressure	ACCKY-K1 TOC			
	Month_Conc	Month_Conc	Month_Conc			
	oC	hPa				
01.15	126.437	1012.092	1.614			
02.15	121.113	1011.979	1.058	18.699	18.699	18.699
03.15	118.794	1011.710	0.778	24.575	24.575	24.575
04.15	112.955	1011.715	0.208	14.369	14.369	14.369
05.15	110.946	1011.644	0.078	17.542	17.542	17.542
06.15	115.288	1011.590	0.741	26.769	26.769	26.769
07.15	116.202	1011.584	0.000	14.919	14.919	14.919
08.15	118.055	1011.316	0.000	14.480	14.480	14.480
09.15	113.565	1011.228	0.000	16.831	16.831	16.831
10.15	120.637	1011.208	12.324	5.589	5.589	5.589
11.15	121.002	1011.443	16.237	13.535	13.535	13.535
12.15	127.927	1011.453	7.927	6.554	6.554	6.554
min	110.946	1011.208	0.000	5.589	5.589	5.589
max	127.927	1011.979	16.237	26.769	26.769	26.769
YMW	118.316	1011.563	3.112	16.697	16.697	16.697

N = NoData

Annexure A

ACC

ACC Limited
Kymore Cement Works
P.O. Kymore
Dist. Katni- 463 880
Madhya Pradesh, India

Phone : +917626 272301
Fax : +917626 272303

KY/ENV/HAZ-WASTE/AFR/MPPCB/152
Dated 21-01-2016

To,
The Chief Scientific Officer (HSMO)
M.P. Pollution Control Board,
Paryavaran Parisar,, E-5,
Arera Colony, Bhopal, Pin - 462 016

1728
29/1/16

Dear Sir,

Sub: Submission of Annual Return for the Hazardous Waste (AFR) co-processing & self generated sent to recycler for the Year January 2015 - December 2015 in Form-4. (Line-1 Clinker Unit of ACC Kymore)

Kindly find enclosed here with the Returns pertaining to Hazardous waste (in Form-4) for the hazardous wastes of various industries co-processed & self generated sent to recycler at Line-1 Clinker Unit of ACC Ltd, Kymore Cement Works vide permission No.H44850/MPPCB/KAT dated: 03.11.2015 & Outward No.22632 dated:05.11.2015 valid till 16.10.2020 as mentioned below for the Year January 2015 - December 2015:

1. M/s Force Motor Pvt Ltd.Plot-03, Sector-01, Pithampur, Dhar(MP), Waste Cat-21.1
2. M/s Jamna Auto Industries Ltd. Waste Cat-21.1
3. M/s Kirloskar Brothers Limited, Dewas (M.P.) Waste Cat-21.1
4. M/s VE commercial Vehicle Ltd. 78/89, Idl Area, 3rd, AB Road, Dewash (M.P.)Waste Cat-12.5
5. M/s VE commercial Vehicle Ltd. 78/89, Idl Area, 3rd, AB Road, Dewash (M.P.)Waste Cat-5.2
6. M/s KEC International Ltd, Post - Panagar, Dist - Jabalpur(MP), Waste Cat-34.3
7. M/s Udaypur Beverage Ltd. Opp BSNL, Richhai Idl Area, Jabalpur (M.P.) Waste Cat-34.3
8. M/s Udaypur Beverage Ltd. Opp BSNL, Richhai Idl Area, Jabalpur (M.P.) Waste Cat-28.2
9. M/s Parle Agro Pvt. Ltd. Mandi Deep, Bhopal, Waste Cat-34.3
10. M/s Parle Agro Pvt. Ltd. Mandi Deep, Bhopal, Waste Cat-28.2
11. M/s Gabriel India Limited, Dewas, (M.P.), Waste Cat-12.5
12. M/s Gabriel India Limited, Dewas, (M.P.), Waste Cat-34.3
13. M/s Gabriel India Limited, Dewas, (M.P.), Waste Cat-21.1
14. M/s Case New Holland Constructions, Dhar (M.P.), Waste Cat-5.2
15. M/s Diesel Loco Shed, Hosangabad, (M.P.), Waste Cat-5.2
16. M/s Lanxess India Pvt. Ltd, Nagda, (M.P.), Waste Cat-34.3(Trial Burn)
17. M/s Lanxess India Pvt. Ltd, Nagda, (M.P.), Waste Cat-35.1 (Trial Burn)
18. M/s IPICA Laboratories Ltd, Ratlam, (M.P.), Waste Cate - 36.4(Trial Burn)
19. M/s IPICA Laboratories Ltd, Ratlam, (M.P.), Waste Cate - 28.2(Trial Burn)
20. M/s IPICA Laboratories Ltd, Ratlam, (M.P.), Waste Cate - 28.1(Trial Burn)
21. M/s IPICA Laboratories Ltd, Ratlam, (M.P.), Waste Cate - 33.1(Trial Burn)
22. M/s VE commercial Vehicle Ltd. 78/89, Idl Area, 3rd, AB Road, Dewash (M.P.)Waste Cat-21.1
23. M/s ACC Limited, Kymore Cement Works, Clinker Unit Line-1, Waste Cat-5.1 (Sent to recycler)

The return in Form 4 is enclosed as ANNXR-1 (Sr.No.1 to 23).

We have already submitted the Manifest (green colour papers) after co-processing/ disposal of the various wastes for stated above on monthly basis and yearly analysis report of stacks during co-processing of various wastes and Public Liability Insurance attached as ANNXR-2 & Compliance of authorization attached as ANNXR-3.

Kindly acknowledge the receipt of the same.

Thanking You,
With kind regards,


Manager-Environment
Kymore Cement Works

Encl: As above - (ANNXR-1, ANNXR-2 & ANNXR-3)

Copy to: The Regional Officer, MPPCB, Jhinhari Katni (M.P.)

Registered Office : Cement House, 121 Maharshi Karve Road, Mumbai 400 020, India
Corporate Identity Number : L26940MH1936PLC002515
Website Address : www.acclimited.com

Sh. Patel SE
IA
Su (A)
21/1/16

FORM - 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]]**(Period - January 2015 to December 2015)****Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (IMTPA Plant)**

1	Name & address of generator/operator: of facility	Generator - Force Motor's Pvt. Ltd., Plot No.- 3, Sector-1, Pithampur. Distt.- Dhar, (MP) Operator of the facility for disposal at ACC Kymore - Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Paint sludge WC- 21.1	NA		
4	Quantity of hazardous waste (in MTPA)	14.36+9.92+9.72+10.46+7.56= 52.02 MT	Quantity (in Tonnes/KL)		
		(i) Waste Cat.-21.1 (paint sludge)	52.02 MT		
5	Description of storage	AFR Covered storage area near Kiln-1, at ACC Kymore		NA	
6	Description of treatment	NA		NA	
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.288,362,381, 382,383
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		Force Motor's Pvt. Ltd., Plot No.- 3, Sector-1, Pithampur. Distt.- Dhar, (MP)	In bags	By truck	28.01.15,30.04.15 31.05.15,17.06.15 & 27.11.15 Respectively
9	Quantity of useful materials sent back to manufacturers*and others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-.8)		52.02 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

Sushil Kumar
21.01.16
AFR Dept. (Manger- AFR)

[Signature] 21/01/16
Manager- Environment

FORM-4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]**[Period - January 2015 to December 2015]****Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)**

1	Name & address of generator/operator: of facility	Generator - M/s Jamna Auto Industries Ltd. Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Paint Sludge, WC- 21.1	NA		
4	Quantity of hazardous waste (in MTPA)	9.24+10.02+13.81+14.06=47.13 MT	Quantity (in Tonnes/KL)		
		(i) Waste Cat.-21.1 (paint sludge)	47.13 MT		
5	Description of storage	AFR Covered storage area near Kiln-1	NA		
6	Description of treatment	NA	NA		
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No. 28, 29, 481,483.
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Jamna Auto Industries Ltd.	In bags	By truck	28.02.15.05. 04.15.21.09. 15.30.10.15 Respectively
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-.8)		47.13 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Manager- Environment

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]

(Period - January 2015 to December 2015)

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s Kirloskar Brothers Limited, Dewas (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Paint Sludge, WC- 21.1	NA		
4	Quantity of hazardous waste (in MTPA)	3.17+3.43=6.6 MT	Quantity (in Tonnes/KL)		
		(i) Waste Cat.-21.1 (paint sludge)	6.6 MT		
5	Description of storage	AFR Covered storage area near Kiln-1	NA		
6	Description of treatment	NA	NA		
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.293 & 291
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Kirloskar Brothers Limited	In bags	By truck	29-08-15, 31.05.15 Respectively
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to	Quantity in tones/KL		
		Manufacturers	Nil		
		Other* (To agency mentioned in para-.8)	6.6 MT		

* Delete wherever is not applicable / Enclose list of other agencies

Date:
Signature
Place: Kymore Cement Works

Signature of the Authorized person
AFR Dept.(Manager- AFR) *Sybilika*
21.09.16

Aum... 21/09/16
Manager- Environment

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]

[Period - January 2015 to December 2015]

Unit - **Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)**

1	Name & address of generator/operator: of facility	Generator - M/s VE commercial Vehicle Ltd. 78/89, Idl Area, 3rd, AB Road, Dewash (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Phosphate Sludge, WC- 12.5	NA		
4	Quantity of hazardous waste (in MTPA)	0.31+0.5 = 0.81 MT			Quantity (in Tonnes/KL)
		(i) Waste Cat.-12.5 (phosphate sludge)	0.81 MT		
5	Description of storage	AFR Covered storage area near Kiln-1			NA
6	Description of treatment	NA			NA
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.282 & 297
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s VE Commercial Vehicle Ltd.	In bags	By truck	24.08.15. & 24.03.15 Respectively
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to			Quantity in tones/KL
		Manufacturers			Nil
		Other* (To agency mentioned in para-.8)			0.81 MT

* Delete wherever is not applicable / Enclose list of other agencies

Date:
Signature
Place: Kymore Cement Works

Signature of the Authorized person
AFR Dept.(Manager- AFR) *[Signature]*
21 01.16

[Signature] 21/01/16
Manager- Environment

FORM-4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]]

[Period - January 2015 to December 2015]

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s VE commercial Vehicle Ltd. 78/89, Idl Area, 3rd, AB Road, Dewash (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Oil Soaked Cotton Waste, WC- 5.2	NA		
4	Quantity of hazardous waste (in MTPA)	6.8+9.78=16.58 MT			Quantity (in Tonnes/KL)
		(i) Waste Cat.-5.2(Oil Soaked Cotton Waste)	16.58 MT		
5	Description of storage	AFR Covered storage area near Kiln-1			NA
6	Description of treatment	NA			NA
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.283 & 295
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s VE Commercial Vehicle Ltd.	In bags	By truck	24.08.15 & 24.03.15 Respectively
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to			Quantity in tones/KL
		Manufacturers			Nil
		Other* (To agency mentioned in para-.8)			16.58 MT

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Sybilika
21-01-16

Amr... 21/01/16

Manager- Environment

FORM-4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]

(Period - January 2015 to December 2015)

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s KEC International Ltd., Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no.- 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		ETP Sludge, WC- 34.3	NA		
4	Quantity of hazardous waste (in MTPA)	1228.35 MT	Quantity (in Tonnes/KL)		
		(i) Waste Cat.-34.3 (ETP Sludge)	1228.35 MT		
5	Description of storage	AFR Covered storage area near Kiln-1	NA		
6	Description of treatment	NA	NA		
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Jan-2015 to December-2015 (ANNXR-2)
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s KEC International Ltd, Post - Panagar, Dist - Jabalpur(MP)	In bags	By truck	Jan-2015 to December-2015 (ANNXR-2)
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to	Quantity in tones/KL		
		Manufacturers	Nil		
		Other* (To agency mentioned in para-8)	1228.35 MT		

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

[Signature] 21/01/16
Manager- Environment

[Signature]
21.01.16

KEC International LIMITE Panager Jabal pur M.P.							
MONTH	MENFEST NO.	DATE OF MENIFEST	QUANTITY IN kg.	disposal dt.		NAME OF IND. WASTE	waste cat.
Jan.-15	251	27.12.14	33480	01.01.15	03.01.15	ETP Sludge	34.3
Jan.-15	252	29.12.14	30440	04.01.15	06.01.15	ETP Sludge	34.3
Jan.-15	253	06.01.15	36120	08.01.15	12.01.15	ETP Sludge	34.3
Jan.-15	254	09.01.15	29890	14.01.15	18.01.15	ETP Sludge	34.3
FEB.-2015	255	12.01	34730	01.02.15	3.02	ETP Sludge	34.3
FEB.-2015	256	16.01	34230	3.02	6.02	ETP Sludge	34.3
FEB.-2015	257	19.01	33770	22.02	24.02	ETP Sludge	34.3
FEB.-2015	258	21.01	30280	24.02	28.02	ETP Sludge	34.3
Mar-15	259	02.02.15	32060	01.03.15	3.03.15	ETP Sludge	34.3
Mar-15	260	07.02.15	34040	03.03.15	5.03.15	ETP Sludge	34.3
Mar-15	261	12.02.15	34450	05.03.15	7.03.15	ETP Sludge	34.3
Mar-15	262	13.02.15	31240	07.03.15	11.03.15	ETP Sludge	34.3
Mar-15	263	19.02.15	32660	11.03.15	14.03.15	ETP Sludge	34.3
Mar-15	264	26.02.15	33240	14.03.15	19.03.15	ETP Sludge	34.3
Mar-15	265	09.03.15	33740	19.03.15	22.03.15	ETP Sludge	34.3
Mar-15	266	14.03.15	32480	22.03.15	23.03.15	ETP Sludge	34.3
Mar-15	267	18.03.15	37170	23.03.15	24.03.15	ETP Sludge	34.3
Mar-15	268	21.03.15	32710	24.03.15	26.03.15	ETP Sludge	34.3
Mar-15	269	25.03.15	31160	26.03.15	28.03.15	ETP Sludge	34.3
Apr-15	270	30.03.2015	17900	01.04.15	03.04.15	ETP Sludge	34.3
Apr-15	271	09.04.2015	33430	11.04.15	14.04.15	ETP Sludge	34.3
Apr-15	272	14.04.2015	34190	15.04.15	21.04.15	ETP Sludge	34.3
Apr-15	274	17.04.2015	30590	22.04.15	24.04.15	ETP Sludge	34.3
May-15	275	05.05.15	30320	08.05.15	10.05.15	ETP Sludge	34.3
May-15	376	08.05.15	25670	10.05.15	12.05.15	ETP Sludge	34.3
May-15	377	13.05.15	29060	15.05.15	19.05.15	ETP Sludge	34.3
May-15	378	021.05.15	33160	23.05.15	31.05.15	ETP Sludge	34.3
Jun-15	379	08.06.15	28070	12.06.15	19.06.15	ETP Sludge	34.3
Jun-15	380	12.06.15	31680	19.06.15	30.06.15	ETP Sludge	34.3
Jul-15	381	17.06.15	30310	01.07.15	04.07.15	ETP Sludge	34.3
Jul-15	382	05.07.15	27420	12.07.15	21.07.15	ETP Sludge	34.3
Jul-15	383	14.07.15	33640	28.07.15	31.07.15	ETP Sludge	34.3
Aug.-15	385	14.08.15	32390	17.08.15	22.08.15	ETP Sludge	34.3
Aug.-15	384	26.07.15	27170	01.08.15	08.08.15	ETP Sludge	34.3
Aug.-15	386	25.08.15	34400	26.08.15	28.08.15	ETP Sludge	34.3
Sep-15	387	09.09.15	29040	12.09.15	14.09.15	ETP Sludge	34.3
Oct.-15	388	11.10.15	29790	26.10.15	27.10.15	ETP Sludge	34.3
Nov.15	389	05.11.15	29610	07.11.15	09.11.15	ETP Sludge	34.3
Nov.15	390	08.11.15	32620	10.11.15	12.11.15	ETP Sludge	34.3

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]

[Period - January 2015 to December 2015]

Unit - **Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)**

1	Name & address of generator/operator: of facility	Generator - M/s Udaypur Beverage Ltd. Opp BSNL, Richhai Idl Area, Jabalpur (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		ETP Sludge/ ETP Bio Sludge/ WTP Sludge, WC- 34.3	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	4.07+3.17+1.76=9.0 MT			Quantity (in Tonnes/KL)
		(i) Waste Cat.-34.3 (ETP Sludge/ ETP Bio Sludge/WTP Sludge)	9.0 MT		
5	Description of storage	AFR Covered storage area near Kiln-1			NA
6	Description of treatment	NA			
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.18, 233,365
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Udaypur Beverage Ltd.	In bags	By truck	16.12.15, 31-05-15 & 26.04.15 Respectively
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to			Quantity in tones/KL
		Manufacturers			Nil
		Other* (To agency mentioned in para-8)			9.0 MT

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

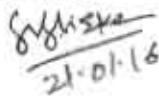
Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)



21/10/16
Manager- Environment



21-01-16

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]

[Period - January 2015 to December 2015]

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s Udaypur Beverage Ltd. Opp BSNL, Richhai Idl Area, Jabalpur (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Spent Carbon, WC- 28.2	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	9.64+8.04+3.52=21.2 MT		Quantity (in Tonnes/KL)	
		(i) Waste Cat.-28.2 (Spent Carbon)	21.2 MT		
5	Description of storage	AFR Covered storage area near Kiln-1		NA	
6	Description of treatment	NA		NA	
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.273,232, 19
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Udaypur Beverage Ltd.	In bags	By truck	25.04.15,31 05.15 & 16.12.15 Respectively
9	Quantity of useful materials sent back to manufacturers*& others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-.8)		21.2 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Sybilika
21.01.16

AK 21/01/16
Manager- Environment

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]

(Period - January 2015 to December 2015)

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s Parle Agro Pvt. Ltd, Industrial Area, Mandi deep, Bhopal (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		ETP Bio Sludge, WC- 34.3	NA		
4	Quantity of hazardous waste (in MTPA)	3.84+6.4+3.34=13.58 MT		Quantity (in Tonnes/KL)	
		(i) Waste Cat.-34.3 (ETP Sludge/ ETP Bio Sludge)	13.58 MT		
5	Description of storage	AFR Covered storage area near Kiln-1		NA	
6	Description of treatment	NA		NA	
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.239,431 & 432
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Parle Agro Pvt. Ltd, Mandi Deep (M.P.)	In bags	By truck	31.05.15, 26-06-15, 27.11.15 Respectively
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-8)		13.58 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Sybil Ste
21.01.16

[Signature] 21/01/16
Manager- Environment

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]**(Period - January 2015 to December 2015)****Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)**

1	Name & address of generator/operator: of facility	Generator - M/s Parle Agro Pvt. Ltd, Industrial Area, Mandi deep, Bhopal (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Spent Carbon, WC- 28.2	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	4.25 MT	Quantity (in Tonnes/KL)		
		(i) Waste Cat.-28.2 (Spent Carbon)	4.25 MT		
5	Description of storage	AFR Covered storage area near Kiln-1	NA		
6	Description of treatment	NA	NA		
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.238 Dtd:26.05.15
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Parle Agro Pvt. Ltd, Mandi Deep (M.P.)	In bags	By truck	31.05.15
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to	Quantity in tones/KL		
		Manufacturers	Nil		
		Other* (To agency mentioned in para-.8)	4.25 MT		

* Delete wherever is not applicable / Enclose list of other agencies

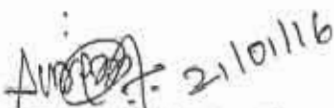
Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)



 Manager- Environment

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]]

(Period - January 2015 to December 2015)

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s Gabriel Inida Limited, Industrial Area, Dewas (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Phosphate Sludge, WC- 12.5	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	0.71 MT	Quantity (in Tonnes/KL)		
		(i) Waste Cat.-12.5 (phosphate sludge)	0.71 MT		
5	Description of storage	AFR Covered storage area near Kiln-1		NA	
6	Description of treatment	NA		NA	
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.276 dtd:06.10.15
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Gabriel Inida Limited, Industrial Area, Dewas	In bags	By truck	26.10.2015
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-8)		0.71 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Manager- Environment

FORM- 4**[See Rule - 5(6) and 22 (2)]****FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY**[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]**[Period - January 2015 to December 2015]****Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)**

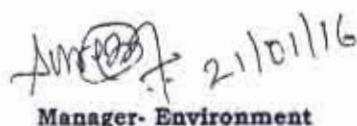
1	Name & address of generator/operator: of facility	Generator - M/s Gabril Inida Limited, Industrial Area, Dewas (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		ETP Sludge, WC- 34.3	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	5.03+7.88 = 12.91 MT	Quantity (in Tones/KL)		
		(i) Waste Cat.-34.3 (ETP sludge)	12.91 MT		
5	Description of storage	AFR Covered storage area near Kiln-1	NA		
6	Description of treatment	NA	NA		
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.273 & 277
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Gabril Inida Limited, Industrial Area, Dewas	in bags	By truck	26.06.15 & 16.11.2015 Respectively
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-8)		12.91 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:
Signature
Place: Kymore Cement Works

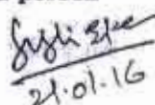
Signature of the Authorized person

AFR Dept.(Manager- AFR)



21/01/16

Manager- Environment



21.01.16

FORM - 4
 [See Rule - 5(6) and 22 (2)]
FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]

(Period - January 2015 to December 2015)
Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s Gabril Inida Limited, Industrial Area, Dewas (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Paint Sludge, WC- 21.1	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	5.29+7.33+2.96+7.46+6.9+7.59 = 37.53 MT		Quantity (in Tones/KL)	
		(i) Waste Cat.-21.1 (Paint sludge)		37.53 MT	
5	Description of storage	AFR Covered storage area near Kiln-1		NA	
6	Description of treatment	NA		NA	
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.51,271,272,274,275 & 278
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Gabril Inida Limited, Industrial Area, Dewas	In bags	By truck	07.05.15,23.05.15,31.05.15,13.08.15, 30.10.15 & 27.11.15 Respectively
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-.8)		37.53 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:
 Signature
 Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Sybilika
 21.01.16

AVR (2015)
 21/01/16
 Manager- Environment

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]**[Period - January 2015 to December 2015]****Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)**

1	Name & address of generator/operator: of facility	Generator - M/s Case New Hollend Constructions, Pithampur, Dist- Dhar (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Oil y rags, WC- 5.2	NA		
4	Quantity of hazardous waste (in MTPA)	4.2+4.35=8.55 MT			Quantity (in Tonnes/KL)
		(i) Waste Cat.-5.2(Oil Oil y rags)	8.55 MT		
5	Description of storage	AFR Covered storage area near Kiln-1			NA
6	Description of treatment	NA			NA
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.491 & 492
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Case New Hollend Constructions, Pithampur	In bags	By truck	26.10.15 & 30.10.15 Respectively
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to			Quantity in tones/KL
		Manufacturers			Nil
		Other* (To agency mentioned in para-.8)			8.55 MT

* Delete wherever is not applicable / Enclose list of other agencies


Date:

Signature

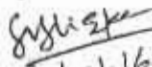
Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)


 21/01/16

Manager- Environment


 21.01.16

FORM- 4
 [See Rule - 5(6) and 22 (2)]
FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]]

(Period - January 2015 to December 2015)

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s Diesel Loco Shade, Hosangabad, Itarsi(M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Oil y rags, WC- 5.2	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	9.82 MT	Quantity (in Tonnes/KL)		
		(i) Waste Cat.-5.2(Oil Oil y rags)	9.82 MT		
5	Description of storage	AFR Covered storage area near Kiln-1	NA		
6	Description of treatment	NA	NA		
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.419 Dtd:27.10.15
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s Diesel Loco Shade, Hosangabad,	In bags	By truck	30.10.15
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-.8)		9.82 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:
 Signature
 Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Sylikke
 21.01.16

AKR
 21/01/16

Manager- Environment

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]]

[Period - January 2015 to December 2015]

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s LANXESS India Pvt. Ltd. Nagda, Birlagram (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		ETP Sludge, WC- 34.3	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	21.27+22.73+20.69=64.69 MT		Quantity (in Tonnes/KL)	
		(i) Waste Cat.-34.3 (ETP Sludge)	64.69 MT		
5	Description of storage	AFR Covered storage area near Kiln-1		NA	
6	Description of treatment	NA		NA	
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.531,532 & 533
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s LANXESS India Pvt. Ltd. Nagda	In bags	By truck	23.12.2015
9	Quantity of useful materials sent back to manufacturers*& others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-.8)		64.69 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:
Signature
Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Syhiske
21.01.16

Surish 21/01/16

Manager- Environment

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]**[Period - January 2015 to December 2015]****Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)**

1	Name & address of generator/operator: of facility	Generator - M/s LANXESS India Pvt. Ltd. Nagda, Birlagram (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no.- 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Process Residue, WC- 35.1	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	7.64+7.39+5.65=20.69 MT		Quantity (in Tonnes/KL)	
		(i) Waste Cat.-35.1 (Process Residue)	20.69 MT		
5	Description of storage	AFR Covered storage area near Kiln-1		NA	
6	Description of treatment	NA		NA	
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.534, 535,536
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s LANXESS India Pvt. Ltd. Nagda	In bags	By truck	23.12.2015
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-8)		20.69 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Syliske
21.01.16

AKR 21/01/16
Manager- Environment

FORM-4
 [See Rule - 5(6) and 22 (2)]
FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]

[Period - January 2015 to December 2015]

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s IPICA Laboratories Limited, Ratlam (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Distillation Residue, WC- 36.4	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	19.56+18.27+19.57+11.82=69.22 MT		Quantity (in Tonnes/KL)	
		(i) Waste Cat.-36.4 (Distillation Residue)	69.22 MT		
5	Description of storage	AFR Covered storage area near Kiln-1			NA
6	Description of treatment	NA			NA
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.241,312,313,317
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s IPICA Laboratories Limited, Ratlam	In bags	By truck	29.05.15
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to			Quantity in tones/KL
		Manufacturers			Nil
		Other* (To agency mentioned in para-.8)			69.22 MT

* Delete wherever is not applicable / Enclose list of other agencies

Date:
 Signature
 Place: Kymore Cement Works

(Signature) 21/01/16
 Manager- Environment

Signature of the Authorized person

AFR Dept.(Manager- AFR) *(Signature)*
 21.01.16

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]**[Period - January 2015 to December 2015]****Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)**

1	Name & address of generator/operator: of facility	Generator - M/s IPICA Laboratories Limited, Ratlam (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Spent Carbon, WC- 28.2	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	14.35 MT	Quantity (in Tonnes/KL)		
		(i) Waste Cat.-28.2 (Spent Carbon)	14.35 MT		
5	Description of storage	AFR Covered storage area near Kiln-1	NA		
6	Description of treatment	NA	NA		
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.315 Dtd:23.05.15
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s IPICA Laboratories Limited, Ratlam	in bags	By truck	29.05.15
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-8)		14.35 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:
Signature
Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Sybil Sree
21.01.16

AVR 21/01/16

Manager- Environment

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]]

[Period - January 2015 to December 2015]

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s IPICA Laboratories Limited, Ratlam (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Dist.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Residue Waste, WC- 28.1	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	9.9 MT	Quantity (in Tonnes/KL)		
		(i) Waste Cat.-28.1 (Residue Waste)	9.9 MT		
5	Description of storage	AFR Covered storage area near Kiln-1	NA		
6	Description of treatment	NA	NA		
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.314 Dtd:23.05.15
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s IPICA Laboratories Limited, Ratlam	In bags	By truck	29.05.15
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-8)		9.9 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Sybilika
21.01.16

AUR
21/01/16

Manager- Environment

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FORM-4
[See Rule - 5(6) and 22 (2)]
FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]]

(Period - January 2015 to December 2015)
Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name & address of generator/operator: of facility	Generator - M/s IPICA Laboratories Limited, Ratlam (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Chemical Residue, WC- 33.1	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	0.93 MT	Quantity (in Tonnes/KL)		
		(i) Waste Cat.-33.1 (Chemical Residue)	0.93 MT		
5	Description of storage	AFR Covered storage area near Kiln-1	NA		
6	Description of treatment	NA	NA		
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Re. No.316 Dtd:23.05.15
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s IPICA Laboratories Limited, Ratlam	In bags	By truck	29.05.15
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-8)		0.93 MT	

* Delete wherever is not applicable / Enclose list of other agencies

Date:
Signature
Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)

Sybil Sica
21.01.16

Amr... 21/01/16
Manager- Environment

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]**(Period - January 2015 to December 2015)****Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)**

1	Name & address of generator/operator: of facility	Generator - M/s VE commercial Vehicle Ltd. 78/89, Idl Area, 3rd, AB Road, Dewash (M.P.) Operator of facility for disposal at ACC Kymore -Mr. D K Sharma, GM-Production			
2	Name of authorized person and full address with telephone and fax number	Shri D K Sharma, GM-Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt.- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Paint Sludge, WC- 21.1	NA		
			NA		
4	Quantity of hazardous waste (in MTPA)	3.51+0.5+0.2+1.38+5.33=10.92 MT		Quantity (in Tonnes/KL)	
		(i) Waste Cat.-21.1(Paint Sludge)	10.92 MT		
5	Description of storage	AFR Covered storage area near Kiln-1		NA	
6	Description of treatment	NA		NA	
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		AFR Storage area at Kymore Cement Works-	Received at ACC Kymore in bags through trucks	To kiln by fork lift & Belt conveyor	Manifest Ref No.227,296,281,242,461
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of disposal
		M/s VE Commercial Vehicle Ltd.	In bags	By truck	05.04.15,24.03.15,24.08.15,29.08.15 & 30.10.15 Respectively
9	Quantity of useful materials sent back to manufacturers* & others*	Name and type of material sent back to		Quantity in tones/KL	
		Manufacturers		Nil	
		Other* (To agency mentioned in para-.8)		10.92 MT	

* Delete wherever is not applicable / Enclose list of other agencies

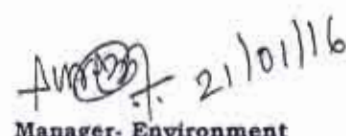
Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person

AFR Dept.(Manager- AFR)


 21/01/16
 Manager- Environment

Sr. N

FORM- 4

[See Rule - 5(6) and 22 (2)]

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Committee by 30th June of every year for the proceeding period April to March]

(Period - January 2015 to December 2015)

Unit - Line-1 Clinker Unit at ACC, Kymore Cement Works (1MTPA Plant)

1	Name/Address of generator/operator of facility	Generator - ACC Limited, Kymore Cement Works, <u>Line-1 Clinker Unit</u> Operator of the facility: Mr. D D Gedia, Chief Mgr-procurement			
2	Name of authorized person and full address with telephone and fax number	Shri S C Dubey, GM - Production, ACC Limited, Kymore Cement Works, Post- Kymore, Distt- Katni, M.P., Pin-483 880, Telephone no. - 07626-272301, Fax number- 07626-272303			
3	Description of hazardous wastes	Physical form with description	Chemical form		
		Used oil [waste oil], Waste Cat.- 5.1	NA		
4	Quantity of hazardous waste (in MTPA)	Oil sucked cotton waste, waste cat.- 5.2	NA		
		Physical form with description	Quantity (in Tonnes/KL)		
		(i) Used oil [waste oil], Waste Cat.-5.1	1000 Litres		
		(ii) Oil sucked cotton waste, waste cat.- 5.2	12 Kg.		
5	Description of storage	Waste oil is stored in centralized covered storage area at general store in 210 Ltrs. MS drums. Oil sucked cotton waste is thrown in use me drums.			NA
6	Description of treatment	NA			NA
7	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		Centralized Storage at Kymore Cement Works-at General Stores	In MS oil drums of 210 Ltrs. Capacity	By fork lift	-
8	Details of disposal of hazardous waste	Name and address of consignee	Mode of packing	Mode of transportation	Date of transportation
		M/s Jaital Chemicals Pvt. Ltd, Plot No.07, Phase-II, Baraghata Indl Area, Gwalior (M.P.)	In MS oil drums of 210 Ltrs. Capacity	By truck	20.11.2015
9	Quantity of useful materials sent back to manufacturers * and others*	Name and type of material sent back to			Quantity in tones/KL
		Manufacturers			Nil
		Other* (To agency mentioned in para-.8)			1000 Litres

* Delete wherever is not applicable / Enclose list of other agencies

Date:

Signature

Place: Kymore Cement Works

Signature of the Authorized person
Manager- Environment

(Signature) 21/10/16

परिसंकटमय अपशिष्ट प्रबंधन एवं को-प्रोसेसिंग से संबंधित विभिन्न संस्थानों द्वारा आयोजित संगोष्ठी प्रशिक्षण आदि में नाभित बोर्ड के अधिकारी एवं कर्मचारियों का वर्ष 2011 से वर्षवार विवरण

वार्षिक प्रतिवेदन वर्ष 2011-2012

1	यार्किंग ग्रुप ऑन इन्सुरेडिबल रू इन्फेज यूज ऑफ अल्ट्रावोयिड फ्यूल एण्ड रॉ मटेरियल इन सिमेन्ट इंडस्ट्री	केन्द्रीय प्रदूषण नियंत्रण बोर्ड, दिल्ली एवं सीआईआई हैदराबाद	शार्दूलैण्ड तथा वियतनाम	27.11.11 से 02.12.11	1. डॉ. पुष्पेन्द्र सिंह हुन्देला, क्षेत्रीय अधिकारी, जबलपुर
2	हजारहडस वेस्ट मैनेजमेन्ट एण्ड रिमोडर्इजेशन ऑफ कन्टाइनमेन्ट साईट्स	सेंटर फॉर साइंस एण्ड इन्वायरीमेन्ट	नई दिल्ली	19.09.11 से 23.09.11	1. डॉ. व्ही. वी. अपाले, वरिष्ठ वैज्ञानिक, अधि. भोपाल 2. श्री एम. के. मंडरार्ड, क्षेत्रीय अधिकारी, शरडोल 3. डॉ. सुनील शुभाकरण वैज्ञानिक, भोपाल
3	इन्फ्लिमेन्टेशन ऑफ रिमोडियेशन प्रोजेजेस वेरड ऑन कास्ट बेनिफिट एनालाइसिस	पर्यावरण एवं वन मंत्रालय, भारत शासन	हैदराबाद	06.02.12 से 10.02.12	1. श्री पी. के. त्रिवेदी, क्षेत्रीय अधिकारी, उज्जैन 2. श्री एच. एस. मालवीय, कार्यपालन यंत्री, भोपाल
वार्षिक प्रतिवेदन वर्ष 2012-2013					
1	शेमिडेशन टेक्नोलॉजी एण्ड मॉडलिंग ऑफ असेसमेन्ट ऑफ ग्राउण्ड वॉटर कंटेमिनेशन	सीएसआईआर-एनजीआरआई	हैदराबाद	05 से 09 अक्टूबर 2012	1. डॉ० आनोक सक्सेना, वैज्ञानिक, भोपाल 2. डॉ० दीपक काले कनिष्ठ वैज्ञानिक, भोपाल
2	मेनुअल ऑन सोलिड वेस्ट मैनेजमेन्ट	शहरी विकास मंत्रालय, नई दिल्ली	नई दिल्ली	06 फरवरी 2013	1. श्री अणाय सरफ, कार्यपालन यंत्री, भोपाल
3	को-प्रोसेसिंग ऑफ वेस्टेज इन सीमेन्ट थर्मल एण्ड आयरन एण्ड स्टील इंडस्ट्रीज एण्ड	केन्द्रीय प्रदूषण नियंत्रण बोर्ड, दिल्ली	भोपाल	01 नवम्बर 2012	1. डॉ० एन.पी. शुक्ला, अध्यक्ष 2. श्री आर. के. जैन, सदस्य सचिव 3. श्री एच. एस. मालवीय, कार्यपालन यंत्री, भोपाल 4. डॉ० आरती अग्रवाल, वैज्ञानिक, भोपाल
वार्षिक प्रतिवेदन वर्ष 2013-2014					
क.	विषय	आयोजक	स्थान	दिनांक	प्रतिभागी
1	को-प्रोसेसिंग ऑफ वेस्टेज इन सीमेन्ट थर्मल एण्ड आयरन एण्ड स्टील इंडस्ट्रीज एण्ड आरईजी	जोनल आफिस (सेन्ट्रल) सीपीसीबी भोपाल एण्ड सिस्टिक नॉर्वे	जयपुर	18 अक्टूबर 2013	1. डॉ० अभय सक्सेना, मुख्य रसायनज्ञ, भोपाल 2. डॉ० एस सुनिल, वैज्ञानिक, भोपाल

Varshik Prativeedan

क्र.	विषय	आयोजक	स्थान	दिनांक	प्रतिभागी
2	इण्डो-यूएस सेमिनार ऑन रजिस्टर्ड वेस्ट मैनेजमेन्ट	एकडेमी ऑफ सर्टिफाईड रजिस्टर्ड मटेरियल मैनेजर्स-भारत वेस्ट, जुरिस कन्सल्टेंट भोपाल, इको भोपाल एवं म.प्र. प्रदूषण नियंत्रण बोर्ड	भोपाल	17 से 19 फरवरी 2014	1. डॉ० अभय सक्सेना, मुख्य रसायनज्ञ, भोपाल 2. डॉ० एस सुनिल, वैज्ञानिक, भोपाल 3. डॉ० आरती अग्रवाल, वैज्ञानिक, भोपाल 4. डॉ० आलोक सक्सेना, वैज्ञानिक, भोपाल 5. डॉ० अविनाश करेश, वैज्ञानिक, भोपाल 6. श्री सुधीर श्रीवास्तव, सहा. विधि. अधि., भोपाल
वार्षिक प्रतिवेदन वर्ष 2014-2015					
क.					
1	वेस्ट मैनेजमेन्ट	एमओईएफ	भोपाल	05 से 19 जनवरी 2015	1. श्री अशोक कुमार गुप्ता, रसायनज्ञ, भोपाल 2. श्रीमती स्वेता साहू, रसायनज्ञ, इन्दौर 3. श्री राजकुमार जैन, रसायनज्ञ, जबलपुर 4. श्री संजय मिश्रा, रसायनज्ञ, रीवा 5. श्री ए. के. तिवारी, रसायनज्ञ, सतना 6. श्रीमती सुनिता झौरे, रसायनज्ञ, सागर 7. श्री रामदास बाघ, रसायनज्ञ, उज्जैन 8. श्री राजेश गांधे, रसायनज्ञ, नागदा 9. श्री राजाराम भावर, कनिष्ठ वैज्ञानिक, गुना 10. श्री बी.एम. पटेल, रसायनज्ञ, शहडोल 11. श्री रवि भारती, रसायनज्ञ, शे.का. भोपाल 12. श्रीमती अवलि राजौरिया, रसायनज्ञ, भोपाल 13. श्रीमती ऊषा कीर, रसायनज्ञ, भोपाल 14. श्रीमती किरण शांभू, रसायनज्ञ, भोपाल
2	एनर्जी रिकवरी फास सुनिस्पल सोलिट वेस्ट ए पेटेशियल मेथोड फॉर वेस्ट डिपोजन फास लेडफाईल्स	आईआईटी मुंबई	मुंबई	05 से 06 फरवरी 2015	1. श्री व्ही. के. अहिरवार, अधीक्षण यंत्री, भोपाल 2. डॉ० आरती अग्रवाल, वैज्ञानिक, भोपाल 3. श्री ए. के. बिसेन, कार्यपालन यंत्री पीथमपुर धार 4. श्री एच. के. तिवारी, कार्यपालन यंत्री शे.का. कटनी 5. श्री आर.आर.भावसार, कनिष्ठ वैज्ञानिक, गुना
3	कोमिकल डिजास्टर मैनेजमेन्ट	एमआईसीटी आई	नई दिल्ली	09 से 11 फरवरी 2015	1. डॉ० गुणवंत जोशी, मुख्य रसायनज्ञ, भोपाल



भारत का राजपत्र

The Gazette of India

भारतघाण

EXTRAORDINARY

भाग III—खण्ड 4

PART III—Section 4

आधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 322]

नई दिल्ली, शनिवार, पंचम्वर 8, 2014/कार्तिक 17, 1936

No. 322]

NEW DELHI, SATURDAY, NOVEMBER 8, 2014/KARTIKA 17, 1936

केन्द्रीय प्रदूषण नियंत्रण बोर्ड

अधिसूचना

नई दिल्ली, 14 अगस्त, 2014

सं. विधि 42 (3)/87.—पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 23 के अधीन जारी अधिसूचना सं. 145(अ), दिनांक 21 फरवरी, 1991 के खण्ड 1 के साथ पठित धारा 12 की उप-धारा 1 के खण्ड (ख) और धारा 13 के अधीन प्रदत्त शक्तियों का प्रयोग करते हुए, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032 एतद्वारा (क) नीचे दी गई तालिका के स्तंभ (2) में विनिर्दिष्ट प्रयोगशाला को उक्त अधिनियम और इसके अंतर्गत बने नियमों के अधीन पर्यावरणीय प्रयोगशालाओं को सौंपे गये कार्य करने हेतु "पर्यावरणीय प्रयोगशालाएं" के रूप में और (ख) तालिका के स्तंभ (3) में विनिर्दिष्ट व्यक्तियों को विश्लेषण के लिए भेजे गये वायु, जल, एवं अन्य पदार्थों के स्तंभ (4) में दर्शाए गए पैरामीटरों के संबंधित समूहों के लिए विनिर्दिष्ट नमूनों का विश्लेषण करने हेतु सरकारी विश्लेषक के रूप में मान्यता देता है। दिनांक 31 जनवरी, 2012 की अधिसूचना संख्या विधि/42(3)/87 की क्रम संख्या 150 और इससे संबंधित प्रविष्टियों के पश्चात निम्नलिखित क्रम संख्याओं और प्रविष्टियों को जोड़ा जाएगा, अर्थात:

क्र. सं.	प्रयोगशाला का नाम	सरकारी विश्लेषक का नाम	मान्यता हेतु पैरामीटर समूह
1.	2.	3.	4.
151	एनवायरनमेंटल इंजीनियरिंग नेबोरेट्री, मेकान नि. विवेकानंद पथ, दोरान्दा, रांची - 834002 झारखण्ड	1. डा. ए. चक्रवर्ती प्रबंधक 2. डा. एन. प्रसाद वैज्ञानिक अधिकारी 3. डा. एम.के. सिंह वैज्ञानिक अधिकारी	भौतिक, सामान्य, रासायनिक एवं गैर धात्विक, धात्विक, कार्बनिक, सूक्ष्मजीव विज्ञानिक, विश्व विज्ञानिक, मृदा, स्लज, तलछट और परिवेशी वायु के विश्लेषण हेतु वायु प्रदूषण

4407 GI/2014

(1)

			एवं सूक्ष्म मौसम वैज्ञानिक पैरामीटर
152	एनवायरनमेंटल लेबोरेट्री, प्रोजेक्ट एण्ड डेवलेपमेंट इंडिया लि. (पी.डी.आई.एल.), पो.ओ. सिन्दरी-828122 जिला- धनबाद झारखण्ड	1. श्री अजय कुमार सिंह उप-महाप्रबंधक 2. श्रीमती ज्ञानलता देशमुख वैज्ञानिक 3. श्री आकाश शोकर वैज्ञानिक	भौतिक, सामान्य, रासायनिक एवं गैर धात्विक, धात्विक, कार्बनिक, सूक्ष्मजीव विज्ञानिक, विरव विज्ञानिक, मृदा, स्नज, तलछट और परिवेशी वायु के विश्लेषण हेतु वायु प्रदूषण पैरामीटर, स्रोत उत्सर्जन, शोर एवं सूक्ष्म मौसम वैज्ञानिक पैरामीटर
153	केन्द्रीय प्रयोगशाला मध्य प्रदेश प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई-5, अरेरा कालोनी, भोपाल- 462016 मध्य प्रदेश	1. डा. संध्या मोहले वैज्ञानिक 2. श्री हर्षवर्धन ठक्कर वैज्ञानिक 3. श्रीमती विनीता गौतम कैमिस्ट 4. श्री असद उल्लाह बेग कनिष्ठ वैज्ञानिक 5. डा. एच.बी. बानखेड़े कनिष्ठ वैज्ञानिक	भौतिक, सामान्य, रसायन एवं गैर मेटेल्स, धातु, कार्बनिक, सूक्ष्मजीव विज्ञानिक, विष विज्ञानिक, मृदा, परिसंक्रमण अपशिष्ट, स्नज, तलछट और परिवेशी वायु के विश्लेषण हेतु वायु प्रदूषण पैरामीटर, स्रोत उत्सर्जन, शोर, बाह्य उत्सर्जन और सूक्ष्म मौसम विज्ञानिक पैरामीटर
154	गोवा राज्य प्रदूषण नियंत्रण बोर्ड प्रयोगशाला, डेम्पो टावर्म, प्रथम तल, ई.टी.सी. पट्टो प्लाजा, पणजी, गोवा -403001	1. श्री संजय वाई. कर्कोकर वैज्ञानिक सहायक 2. श्री मिलिंद एस. पारसेकर वैज्ञानिक सहायक 3. श्रीमती जोशना महाले वैज्ञानिक सहायक 4. सुनी इटमा फर्नांडिस वैज्ञानिक सहायक 5. श्रीमती अचिना परेरा वैज्ञानिक सहायक	भौतिक, सामान्य, रसायन एवं गैर मेटेल्स, धातु, कार्बनिक, सूक्ष्मजीव विज्ञानिक, विष विज्ञानिक, जैवकीय, मृदा स्नज, तलछट, परिसंक्रमण अपशिष्ट और परिवेशी वायु के विश्लेषण हेतु वायु प्रदूषण पैरामीटर, स्रोत उत्सर्जन, शोर और सूक्ष्म मौसम विज्ञानिक पैरामीटर

इस प्रकार उल्लिखित पर्यावरणीय प्रयोगशाला तथा सरकारी विश्लेषक अधिसूचना जारी होने की तिथि से पांच वर्ष की अवधि के लिए वैध रहेंगे।

सुनील कुमार, अध्यक्ष
(दस्तावेज III/4/अन/19/14)

उसमें निम्नलिखित के द्वारा संशोधन किये गये : (1) का.आ. 838(अ), दिनांक 23.09.87 (2) का.आ. 989(अ), दिनांक 17.11.87 (3) का.आ. 489(अ), दिनांक 17.05.88 (4) का.आ. 156(अ), दिनांक 24.02.89 (5) का.आ. 846(अ) दिनांक 24.10.89 (6) का.आ. 375(अ) दिनांक 26.04.1990 (7) का.आ. 803(अ) दिनांक 23.09.92 (8) का.आ.97(अ) दिनांक 05.12.1994 (9) का.आ. 418(अ) दिनांक 31.03.1996 (10) का.आ. 889(अ) दिनांक 31.08.1996 (11) का.आ. 452(अ) दिनांक 31.05.97 (12) का.आ. 631(अ) दिनांक 31.05.1998 (13) का.आ. 336(अ) दिनांक 01.01.1999 (14) का.आ. 44(अ) दिनांक 15.01.2001, (15) का.आ. संख्या 490(अ), दिनांक 01.06.2001 (16) का.आ. संख्या 532(अ), दिनांक 01.01.2002, (17) का.आ. संख्या 1168(अ), दिनांक 01.06.2002, का.आ. संख्या 888(अ), दिनांक 01.06.2003, (19) विधि/42(3)/87, दिनांक 01.06.2004, (20) विधि/42(3)/87, दिनांक 01.03.2005 (21) विधि/42(3)/87, दिनांक 01.09.2005, (22) विधि/42(3)/87, दिनांक 15.12.2005, (23) विधि/42(3)/87, दिनांक 01.05.2006, विधि/42(3)/87, दिनांक 01.09.2006, विधि/42(3)/87, दिनांक 01.01.2007, विधि/42(3)/87 दिनांक 15.04.2007, विधि/42(3)/87 दिनांक 01.08.2007, विधि/42(3)/87, दिनांक 01.10.2007, विधि/42(3)/87, दिनांक 01.02.2008, विधि/42(3)/87, दिनांक 01.4.2008, विधि/42(3)/87, दिनांक 01.10.2009, विधि/42(3)/87, दिनांक 15.01.2010, विधि/42(3)/87, दिनांक 20.09.2010, विधि/42(3)/87, दिनांक 27.01.2011 और विधि/42(3)/87, दिनांक 31.01.2012.

**CENTRAL POLLUTION CONTROL BOARD
NOTIFICATION**

New Delhi, the 14th August, 2014

No. Legal 42(3)/87.—In exercise of the powers conferred by clause (b) of Sub-section 1 of Section 12 and Section 13 read with clause 1 of the Notification No. 145(E), dated 21st February, 1991, issued under Section 23 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032 hereby recognizes, (a) the laboratories specified in column (2) of the Table below as 'Environmental Laboratories' to carry out the functions entrusted to the environmental laboratories under the said Act, and the rules made thereunder, and (b) specified persons in column-(3) of the Table as the Government Analysts for the purposes of analysis of samples of air, water, soil or other substances sent for analysis, specified for respective groups of parameters mentioned in Column (4). After Sr. No. 150 of the Notification No. Legal/42(3)/87, dated 31st January, 2012, and the entries relating thereto, the following Serial Nos. and entries shall be added, namely:

S. No.	Name of Laboratory	Name of the Govt. analysts	Recognized for parameter groups
1.	2.	3.	4.
151	Environmental Engineering Laboratory MECON Limited Vivekananda Path, Doranda Ranchi- 834002 Jharkhand	1. Dr. S. Chakraborty, Manager 2. Dr. N. Prasad, Sc. Officer 3. Dr. M.K. Singh, Sc. Officer	Physical, General, Chemical and non-metallic, metals, organics, microbiological, toxicological, soil, sludge, sediments and air pollution parameters for analysis of ambient air, source emissions, noise and micrometeorological parameters.
152	Environmental Laboratory Project and Development India Ltd. (PDIL) P.O. Sindri- 828122 District- Dhanbad Jharkhand	1. Sh. Ajay Kumar Singh Dy. General Manager 2. Mrs. Gyanlata Deshmukh Scientist 3. Mr. Akash Chhokar Scientist	Physical, General Chemical and non-metallic, metals, organics, microbiological, toxicological, soil, sludge, sediments and air pollution parameters for analysis of ambient air, source emissions, noise and micrometeorological parameters.
153	Central Laboratory M.P. Pollution Control Board Paryavaran Paritar, E-5, Arera Colony, Bhopal - 462016	1. Dr. Sandhya Mokhte Scientist 2. Mr. Harshwardhan Thakkar Scientist	Physical, General, Chemical and non-metallic, metals, organics, microbiological, toxicological, soil, sludge, sediments and air pollution parameters for analysis of

	Madhya Pradesh	3. Smt Vinita Gautam Chemist 4. Sh. Asad Ullah Baig Junior Scientist 5. Dr. H.B. Wankhede Junior Scientist	ambient air, source emissions, noise and micrometeorological parameters.
154	Goa State Pollution Control Board Laboratory Dempo Towers, 1st Floor, EDC Patto Plaza, Panaji, Goa-403001	1. Sh. Sanjay Y Kankonkar Scientific Assistant 2. Mr. Nilesh S. Parsekar Scientific Assistant 3. Mrs. Joshna Mahale Scientific Assistant 4. Ms. Edna Fernandes Scientific Assistant 5. Mrs. Avina Pereira Scientific Assistant	Physical, General, Chemical and non-metallic, metals, organics, microbiological, toxicological, soil, sludge, sediments and air pollution parameters for analysis of ambient air, source emissions, noise and micro-meteorological parameters.

The Environmental Laboratories and the Govt. Analysts so mentioned shall remain valid for a period of five years from the date of issue of Notification.

SUSHHEEL KUMAR, Chairman

[ADVT III/4/Exty./184/14]

Foot Note: The principal notification was published in the Gazette of India vide S.O. No. 728(E), dated 21.7.1987 and subsequently amended vide-(1) Nos. S.O. 838(E), dated 23.9.87, (2) S.O. 989(E) dated 17.11.87, (3) S.O. 489(E) dated 17.5.88, (4) S.O. 156 (E) dated 24.2.89 (5) S.O. 846(E) dated 24.10.89, (6) S.O. 375(E) dated 26.4.1990, (7) S.O. 803(E) dated 23.9.92, (8) S.O. 97(E) dated 5.12.1994, (9) S.O. 418(E) dated 31.3.1996, (10) S.O. 889 (E) dated 31.8.1996, (11) S.O. 452 (E) dated 31.5.97, (12) S.O. 631 (E) dated 31.5.1998, (13) S.O. 336(E) dated 1.1.1999, (14) S.O. 44(E), dated 15.1.2001, (15) S.O. 490(E), dated 1.6.2001, (16) S.O. 532(E), dated 1.1.2002, (17) S.O. 1168(E), dated 1.6.2001, (18) S.O. 888(E), dated 1.6.2003, (19) Legal/42(3)/87/, dated 1.6.2004, (20) Legal/42(3)/87, dated 1.3.2005, (21) Legal 42(3)/87, dated 1.9.2005, (22) Legal 42(3)/87, dated 15.12.2005 and (23) Legal 42(3)/87, dated 1.5.2006, Legal 42(3)/87, dated 1.9.2006, Legal 42(3)/87, dated 1.1.2007, Legal 42(3)/87, dated 15.4.2007, Legal 42(3)/87, dated 1.8.2007, Legal 42(3)/87, dated 1.10.2007, Legal 42(3)/87, dated 1.2.2008, Legal 42(3)/87, dated 1.4.2008, Legal 42(3)/87, dated 1.10.2009, Legal 42(3)/87, dated 15.1.2010, Legal 42(3)/87, dated 20.9.2010, Legal 42(3)/87, dated 27.1.2011 and Legal 42(3)/87, dated 31.1.2012.



Annexure-R7/P

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

Authorization Order

RED-LARGE	CCA-Expansion	VALIDITY (A/W): 08/10/2020 VALIDITY (H): 08/10/2020	CONSENT NO: H-44783	PCB ID: 19441
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NO: H-44783/MPPCB/UJJ

Dated: 22/10/2015

To,
M/s. Vikram Cement (Ultra Tech),
--, KHOR,
City : JAWAD,
Dist : Neemuch, Tal : Jawad, SIDC : Not In SIDC

Subject: Grant of Authorization under Hazardous Waste (Management handling & Transboundary movement) Amended Rule, 2008

Ref: Your Application Receipt No. 110480 Dt. 25/08/2015 and last communication received on Dt.

With reference to your above application has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant upto 08/10/2020, subject to the fulfilment of the terms & conditions, enclosed with this letter

SUBJECT TO THE FOLLOWING CONDITIONS :-

- Location: KHOR, JAWAD, Jawad, Neemuch, Contact No. 9644128777
- The capital investment in lakhs: 273954

Enclosures:-

- * Conditions under Hazardous Rules
- * General conditions

ACHYUT
ANAND MISHRA

Digitally signed by ACHYUT ANAND MISHRA
DN: cn=ACHYUT ANAND MISHRA, o=M.P. Pollution Control Board, ou=, email=achyut.mishra@mppcb.gov.in

Outward No: 22561, 25/10/2015



Authorization Order

CONDITIONS PERTAINING TO HAZARDOUS WASTE (MANAGEMENT, HANDLING AND TRANSBOUNDARY MOVEMENT) RULES 2008:-

[See rule 5 (4)]

FORM-2

FORM FOR GRANT/RENEWAL OF AUTHORISATION BY M.P. POLLUTION CONTROL BOARD FOR OCCUPIERS, RE-USERS AND OPERATORS OF FACILITIES FOR COLLECTION, TREATMENT, STORAGE, TRANSPORT, AND DISPOSAL OF HAZARDOUS WASTE

1. The operator of facility, i.e. occupier Vikram Cement (Ultra Tech) is hereby granted the authorization to operate a facility for collection, reception, treatment, storage, transport and dispose of Hazardous waste to be generated and disposed to the tune mentioned in table below on the premises situated at --, KHOR, JAWAD, Jawad, Neemuch, Phone No. 07420230295

2. The authorization granted to operate a facility for generation, collection, reception, storage and transport of hazardous waste

Hazardous Waste	Waste Stream	Qty/Year	Method of Storage	Method of Disposal
Phosphate Sludge	I -12.5	20000.000-M.T	Phosphate Sludge from Automobile Industries for Co-Processing into Cement Kiln	COL,N.A.REC.STO
Contaminated Aromatic,Aliphatic Or Naphtenic Solvents Not Fit For Original	I -20.1	5000.000-M.T	Liquid & Solid Organic Spent Solvent of Pharmaceutical Industries for Co-Processing into Cement Kiln	COL,N.A.REC.STO
process Wastes,Residues and sludges	I -21.1	50000.000-M.T	Contaminated Plastic Waste of Board and Paper Recycling Industries for Co-Processing into Cement Kiln	COL,N.A.REC.STO
process Wastes,Residues and sludges	I -21.1	10000.000-M.T	PAINT SLUDGE FROM GENERATED FROM AUTOMOBILES SECTOR FOR COPROCESSING IN CEMENT KILN	COL,N.A.REC.STO
Spent Catalyst / Spent Carbon	I -28.2	14000.000-M.T	Spent Carbon of Pharma Industries for Co-Processing into Cement Kiln	COL,N.A.REC.STO
Spent Organic Solvents	I -28.5	30000.000-M.T	Liquid & Solid Organic Spent Solvent of Pharmaceutical Industries for Co-Processing into Cement Kiln	COL,N.A.REC.STO
Chemical Sludge From Waste Water Treatment	I -34.3	22370.000-M.T	ETP SLUDGE GENERATED FROM TEXTILE UNIT FOR COPROCESSING IN CEMENT KILN	COL,N.A.REC.STO
Spent Catalyst	I -35.2	2000.000-M.T	Spent Carbon of Pharma Industries for Co-Processing into Cement Kiln	COL,N.A.REC.STO
Spent Carbon	I -35.3	4000.000-M.T	Spent Carbon of Pharma Industries for Co-Processing into Cement Kiln	COL,N.A.REC.STO
Wastes Residues Containing Oil	I -5.2	550.000-M.T		GEN,RRE

3. The waste specified under hazardous waste stream as mentioned above shall be stored as per MoEF and CPCB guidelines issued time to time and disposed off as indicated in above table at SL. No. 3 as Hazardous Waste (Management handling & Transboundary movement) Amended Rule, 2008 sub Rule 7 (1).

4. The authorization shall be in force for a period of Five years from 09/10/2015-08/10/2020

5. The industry shall take all the steps wherever required, for reduction of the waste generated or for recycling or reuse.

6. The industry shall display the information on hazardous waste generated on notice board of size 6' x 4' (in Hindi & English) outside the unit main gate along with quantity and nature of hazardous chemicals being handled in the plant, including wastewater, air emission and hazardous wastes.

7. The authorisation is subject to the terms & conditions as given below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986. Violation of any of the conditions shall be liable for legal action as per provisions under Environment (Protection) Act, 1986.

Terms and Condition Of Authorisation

1. The authorisation shall comply with the provision of Environment (Protection) Act, 1986 and the rules made there under



Authorization Order

2. The authorisation or its renewal shall be produced during inspection on the request of the inspecting officer authorized by the State Pollution Control Board.
3. The authorized person shall not rent, lend, sale, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the State Pollution Control Board.
4. If the industry comes in such a category where insurance under Public Liability Insurance Act, is necessary, the industry shall comply with provision and submit a copy of the policy to the Board.
5. Any unauthorized change in production capacity, process, raw materials, personnel, equipments etc. as mentioned in the application by the person authorized shall constitute a breach of this authorisation.
6. The unit should maintain the records of hazardous wastes as per the Form-3 of rule 9 (1) and should online submit the annual return in Form No.4 as per the rule 9 (2) to this office on or before 31st January every year.
7. Details of auction/sale of non-ferrous hazardous waste should be submitted online in form no.13 to this office annually.
8. An on-site storage for waste for a maximum period of one year or a maximum quantity of 10 MT, whichever is less, should be provided and it shall be ensured that there is no leakage or seepage or spillage from surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rainwater in storage area.
9. It is the duty of authorized person to take prior permission of the M.P. Pollution Control Board to close down the facility.
10. The information regarding quantity of hazardous wastes generated and its analysis report should be sent to the Board online quarterly.
11. Hazardous Waste Storage Site & Danger signboard shall be provided with all safety devices at the storage site.
12. The authorized person should inform the name and address of the contact person responsible for hazardous waste management.
13. In case of importing Hazardous Waste, occupier shall apply to the M.P. Pollution Control Board, 180 days in advance in Form-6, for permission to import of the waste as per Rule 13 (i) of Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008 as amended up to date.
14. In the event of any accident due to handling of hazardous wastes, the authorized person must inform immediately to the Regional Office & Head office of the board on Fax/telephone/email-it_mppcb@rediffmail.com about the incident and detail report should be sent in Form No.5 as per rule -10 of Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008 as amended up to date.

Additional Has condition:- (if any) :-

Outward No. 2775 28/01/2015



Authorization Order

GENERAL CONDITIONS:

1. The non hazardous solid waste arising in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal
Scrap/ Plastic packing material wood, cart board, gunny bags etc		Sale to authorized party/As Per CPCB, MoEF Guide lines.

2.

The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

- To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
- To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
- To sample at reasonable times any discharge or pollutants.

3. This consent/authorisation is transferable, in case of change of ownership/management and addresses of new Owner/partner/Directors/proprietor should immediately apply for the same

4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

5. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of HW (M, H & T) Rules 2008 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per these Act / Rules.

6. Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date.

7. The applicant shall submit such information, forms and fees as required by the board not later than 180 day prior to the date of expiration of this consent/authorisation.

8. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.

9.

After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following:

- Violation of any terms and conditions of this Consent.
- Obtaining this Consent by misrepresentation or failure to disclose fully all relevant facts.
- A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

10. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

Additional condition:- (if any) :-

1 :- The details of Hazardous Wastes as mentioned in Form-2 (page No. 2) is hereby replaced by following table :-

S.No. Hazardous Waste	Waste stream Qty. gen. (yearly)	Mode of disposal
1. Spent Carbon of Pharma Industries	26.2	20000 MT Co-processing in the kiln
2. Liquid & Solid Organic Spent Solvent of Pharmaceutical Industries	28.5	10000 MT Co-processing in the kiln
3. Phosphate Sludge from Automobile Industries	17.8	50000 MT Co-processing in the kiln
4. ETP Sludge from Automobile Industries	1.1	20000 MT Co-processing in the kiln



M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

Authorization Order

5. Grinding dust from Automobile Industries	5.2	10000 MT	Co-processing in the kiln
6. Oily Rags/ Oil Soaked Cotton	5.2	30000 MT	Co-processing in the kiln
7. Spent Catalyst from Refinery	4.2	40000 MT	Co-processing in the kiln
8. Refinery Sludge	4.1	40000 MT	Co-processing in the kiln
9. ETP Bio Solid Waste from Soft Drink Industries	34.3	30000 MT	Co-processing in the kiln
10. WTP Sludge from Soft Drink Industries	34.3	30000 MT	Co-processing in the kiln
11. Spent Carbon from Soft Drink Industries	35.3	30000 MT	Co-processing in the kiln
12. Contaminated Plastic Waste of Board and Paper Recycling Industries	21.1	50000 MT	Co-processing in the kiln
13. Opium Marc	- 28.1	2000 MT	Co-processing in the kiln
14. Paint sludge from automobile industry.	21.1	10000 MT	Co-processing in the kiln
15. ETP Sludge from Textile Industry	34.3	22370 MT	Co-processing in the kiln
16. Used oil	5.1	60 MT	sale to Registered Recycler
17. Waste oil	5.2	550 MT	sale to Registered Recycler

II.

- The industry shall strictly follow the Guidelines for co-processing published by CPCB.
- The industry shall comply all the conditions mentioned in CPCB letter regarding regular permission for co-processing of waste.
- The generator/Co-processor is responsible and shall take all necessary precautions while collection, transportation, storage and co-processing of the said waste.
- The authorization issued vide Board's letter No. 177 dt. 20.02.2014 shall be stand cancel.

Consent/authorization as required under the and the Authorization under Hazardous Waste (Management handling & Transboundary movement) Amended Rule, 2008 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent/authorisation. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.



ACHYUT
ANAND
MISHRA

Digitally signed by ACHYUT ANAND MISHRA
DN: cn=Achyut Anand Mishra, o=M.P. Pollution Control Board, email=achyut.mishra@mppcb.org, postalCode=462002, postalCode+suffix=MP, postalCode+prefix=IN, postalCode+country=IN

For and on behalf of
M.P. Pollution Control Board

(Member Secretary)

Outward No. 22563-25/30/2015



क्षेत्रीय कार्यालय, म.प्र.प्रदूषण नियंत्रण बोर्ड,

17, भरतपुरी, उज्जैन दूरभाष कार्यालय-0734-2510984

ई-मेल romppcb_ujjain@yahoo.co.in

क्रमांक-276/प्रनिबो/क्षेकार/2016/

उज्जैन, दिनांक 05/02/2016

प्रति,

श्री एच.एस.मालवीय,
अधीक्षण यंत्री,
म.प्र.प्रदूषण नियंत्रण बोर्ड,
भोपाल (म.प्र.)

विषय :- Reg.Meeting at MoEFCC Delhi on 8th Feb-2016 wrt NGT case (CA 178 2014
Sweta Narayan Vs Union of India & ors.

संदर्भ :- मुख्यालय से ई-मेल प्राप्ति दिनांक 04.02.2016

--00--

उपरोक्त विषयान्तर्गत लेख है कि बोर्ड मुख्यालय से प्राप्त ई-मेल के संदर्भ में
वाही गई जानकारी निर्धारित प्रपत्र में पूर्ण कर अग्र कार्यवाही हेतु प्रेषित है ।

संलग्न :- यथोपरि ।

(पी.के.त्रिवेदी)
क्षेत्रीय अधिकारी

ISSUED TO:

M/S. VIKRAM CEMENT WORKS
A UNIT OF ULTRATECH CEMENT LIMITED
KHOR, TEH-JAWAD,
DIST. NEEMUCH (M.P)

Report Number : 00187/15-16/VLL/000/01
Issued Date : 2015-05-19
Your Ref : AC/VCH/1530527894
And Date : 09.03.2015


Page 1 of 1

SAMPLE PARTICULARS	Source Emission Monitoring in LINE - III Kln Stack		
Sample Registration Date	: 2015-05-04	Sampling Date	: 2015-04-29 & 30.
Analysis Starting Date	: 2015-05-04	Analysis Completion Date	: 2015-05-19
Test Required	: PM, HF, HCl, NOx, SO2, CO, HC, TOC and VOC'S.		
SAMPLE COLLECTED BY VIMTA LABS LTD			LAB REF. EC:

TEST REPORT

Sl. No.	PARAMETERS	UOM	METHOD OF TESTING	RESULTS	
				Pre-Blank	Co-Processing with ETP Sludge
Date of Monitoring				2015-04-29	2015-04-30
1	Diameter of stack	m		4.0	
2	Flue gas temperature	°C		148	145
3	Velocity	m/sec		10.31	10.89
4	Volumetric flow rate	Nm ³ /Sec		89.74	92.8
5	Oxygen as O ₂	%	Flue Gas Analyzer	11.2	11.0
6	HF	mg/Nm ³	USEPA method -13	3.7	3.4
7	HCl	mg/Nm ³	USEPA method -26	25.9	22.4
8	Particulate Matter	mg/Nm ³	USEPA method-5	46.8	43.5
9	Oxides of Nitrogen	mg/Nm ³	USEPA method -07	1104	1078
10	Sulphur Dioxide	mg/Nm ³	USEPA method -06	<3.2	<3.2
11	Carbon Monoxide	mg/Nm ³	Flue Gas Analyzer	93.4	86.5
12	Hydro Carbons	ppm	USEPA method -25A	16	12
13	TOC	µg/nm ³	USEPA method -40 & MMS(10)	4.1	3.6
14	VOC'S	µg/Nm ³	USEPA method -30 & 31	<0.001	<0.001

Method of Testing: As per USEPA Method
Instrument used: For HF and HCl - Ion selective Electrode analyzer.
Minimum Detection Limit for SO₂ - 1.4 mg/nm³
All the Values are represented at 10% O₂


Dr. Subba Reddy Mallampati
Sr. Scientist - Environment

Note: This report is subject to the terms and conditions mentioned overleaf
Vimta Labs Ltd., Analytical Division, Life Sciences Campus, # 5, Alexandria Knowledge Park
Genome Valley, Hyderabad - 500 078, INDIA. T: +91 40 6740 4040

NO: LSF-B 371805

ISSUED TO:

M/S. VIKRAM CEMENT WORKS
A UNIT OF ULTRATECH CEMENT LIMITED
KHOR, TEH-JAWAD
DIST. NEEMUCH (M.P)

Report Number : 00187/15-16/VLJ/000/02
Issued Date : 2015-05-19
Your Ref : AC/VCH/1530527694
And Date : 09.03.2015

Page 1 of 1

SAMPLE PARTICULARS

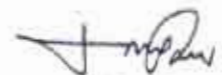
Source Emission Monitoring in Line-01 Kiln stack

Sample Registration Date	: 2015-05-04	Sampling Date	: 2015-04-29 & 30.
Analysis Starting Date	: 2015-05-04	Analysis Completion Date	: 2015-05-19
Test Required	Hg & its compounds, Sb+ As+ Pb+ Co+ Cr+ Cu+ Mn+ Ni+ V+ Their compounds		
SAMPLE COLLECTED BY VIMTA LABS LTD	LAB REF. EC.		

TEST REPORT

Sl.NO.	PARAMETERS	UOM	METHOD OF TESTING	RESULTS	
				Pre-Blank	Co-Processing with ETP Sludge
1	Chromium as Cr + their Compound	mg/Nm ³	USEPA method -29	0.019	0.016
2	Manganese as Mn + their Compound	mg/Nm ³	USEPA method -29	0.017	0.012
3	Mercury as Hg + their Compound	mg/Nm ³	USEPA method -29	0.003	0.002
4	Cadmium + Thallium (Cd + Tl) + their Compound	mg/Nm ³	USEPA method -29	0.026	0.019
5	Arsenic as As + their Compound	mg/Nm ³	USEPA method -29	<0.001	<0.001
6	Antimony as Sb + their Compound	mg/Nm ³	USEPA method -29	0.017	0.014
7	Lead as Pb + their Compound	mg/Nm ³	USEPA method -29	0.021	0.016
8	Cobalt as Co + their Compound	mg/Nm ³	USEPA method -29	0.019	0.017
9	Copper as Cu + their Compound	mg/Nm ³	USEPA method -29	0.024	0.022
10	Nickel as Ni + their Compound	mg/Nm ³	USEPA method -29	0.031	0.024
11	Vanadium as V + their Compound	mg/Nm ³	USEPA method -29	0.015	0.012
12	Selenium as Se + their Compound	mg/Nm ³	USEPA method -29	0.011	0.009
13	Zinc as Zn + their Compound	mg/Nm ³	USEPA method -29	0.019	0.015
14	Tin as Sn + their Compound	mg/Nm ³	USEPA method -29	0.017	0.013

Monitors used: SO₂, HCL, HF, H₂S, CO₂, NO_x and O₂ etc.
Method: Direct-Read Line for Metals - 0.0001 mg/Nm³
Maximum Detectable Limit for TOC - 0.1 mg/Nm³
All the values are represented at 10% O₂.



Dr. Subba Reddy Mallampati
Sr. Scientist - Environment

Note: This report is subject to the terms and conditions mentioned overleaf
Vimta Labs Ltd., Analytical Division, Life Sciences Campus, 2 B, Alexander's Knowledge Park
Gurgaon-VII, Hyderabad - 500 075, INDIA. T: 01 40 8740 4040

NO: LSF-B 371804

ISSUED TO:

M/S. VIKRAM CEMENT WORKS
A UNIT OF ULTRATECH CEMENT LIMITED
KHOR, TEH-JAWAD
DIST. NEEMUCH (M.P)

Report Number : 00187/15-16/VL/006/03
Issued Date : 2015-05-19
Your Ref : AC/VCH/1530527694
And Date : 09.03.2015

Page 1 of 1

SAMPLE PARTICULARS

Source Emission Monitoring in Line-01 Kiln

Sample Registration Date	2015-05-04	Sampling Date	2015-04-29 & 30
Analysis Starting Date	2015-05-04	Analysis Completion Date	2015-05-19
Test Required	PCDD & PCDF		
SAMPLE COLLECTED BY VIMTA LABS LTD			LAB REF.:EC

TEST REPORT

Sl.No.	PARAMETERS	UOM	RESULTS	
			Pre-Blank	Co-Processing with ETP Sludge
EMISSION RATES				
1	Stack attached to	-	Line - 01 Kiln Stack	
2	Diameter of the Stack	m	4.0	
3	Temperature	°C	148	145
4	Velocity	m/sec	10.31	10.89
DIOXIN AND FURANS				
5	2,3,7,8-TCDF	ng/Nm ³ , TEQ	0.0000	0.0002
6	1,2,3,7,8-PeCDF	ng/Nm ³ , TEQ	0.0007	0.0000
7	2,3,4,7,8-PeCDF	ng/Nm ³ , TEQ	0.0003	0.0007
8	1,2,3,4,7,8-HxCDF	ng/Nm ³ , TEQ	0.0013	0.0009
9	1,2,3,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.0011	0.0006
10	2,3,4,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.0000	0.0000
11	1,2,3,7,8,9-HxCDF	ng/Nm ³ , TEQ	0.0005	0.0000
12	1,2,3,4,6,7,8-HpCDF	ng/Nm ³ , TEQ	0.0004	0.0004
13	1,2,3,4,7,8,9-HpCDF	ng/Nm ³ , TEQ	0.0002	0.0002
14	OCDF	ng/Nm ³ , TEQ	0.0000	0.0000
15	2,3,7,8-TCDD	ng/Nm ³ , TEQ	0.0003	0.0003
16	1,2,3,7,8-PeCDD	ng/Nm ³ , TEQ	0.0001	0.0000
17	1,2,3,4,7,8-HxCDD	ng/Nm ³ , TEQ	0.0000	0.0002
18	1,2,3,6,7,8-HxCDD	ng/Nm ³ , TEQ	0.0001	0.0000
19	1,2,3,7,8,9-HxCDD	ng/Nm ³ , TEQ	0.0004	0.0004
20	1,2,3,4,6,7,8-HpCDD	ng/Nm ³ , TEQ	0.0003	0.0002
21	OCDD	ng/Nm ³ , TEQ	0.0000	0.0001
Total Dioxin & Furans		ng/Nm ³ , TEQ	0.0056	0.0038
Total Dioxin & Furans		ng/Nm ³ , TEQ Corrected to 10% O ₂ Concentration	0.0063	0.0042

Method of Testing: As per USEPA 1631 & 8206

Remarks: All the values are corrected to 10% O₂, as per CPCB Guidelines HAZWAMI/30/2005-06
Instrument Used: Auto spec Premier (HRGC/HRMS), Detection Limit: 0.01ng



Dr. Subba Reddy Mallampati
Sr. Scientist - Environment

Note: This report is subject to the terms and conditions mentioned overleaf
Vimta Labs Ltd., Analytical Division, Life Sciences Campus, # 5, Akashra Knowledge Park
Genima Valley, Hyderabad - 500 075, INDIA. E+91 40 9743 4043

NO: LSF-B 371803

ISSUED TO

**M/S. VIKRAM CEMENT WORKS
 A UNIT OF ULTRATECH CEMENT LIMITED
 KHOR, TEH-JAWAD,
 DIST. NEEMUCH (M.P)**

Region Number: 14029/15-16/VLL/006/01
 Issued Date: 2016-01-11
 Your Ref: VC/VCH/1530530514
 And Date: 26.12.2015

Page 1 of 1

SAMPLE PARTICULARS

Sample Registration Date: 2015-12-28
 Analysis Starting Date: 2015-12-28
 Test Required: PM, HF, HCl, NOx, SO2, CO, HF, TSP and VOC's
 SAMPLE COLLECTED BY VIMTA LABS LTD

Source Emission Monitoring in LINE - III K&N Stack

Sampling Date: 2015-12-21 & 22
 Analysis Completion Date: 2016-01-11
 LAB REF: 117

TEST REPORT

Sl. No.	PARAMETERS	UOM	METHOD OF TESTING	RESULTS	
				Pre-Blank	Co-Processing with ETP Sludge
Date of Monitoring				2015-12-21	2015-12-22
1	Diameter of stack	m		1.0	
2	Flue gas temperature	°C		133	131
3	Velocity	m/sec		9.04	8.17
4	Volumetric flow rate	Nm ³ /Sec		77.74	70.2
5	Oxygen as O ₂	%	Flue Gas Analyzer	10.8	11.1
6	HF	mg/Nm ³	USEPA method -13	0.5	0.85
7	HCl	mg/Nm ³	USEPA method -26	1.8	1.5
8	Particulate Matter	mg/Nm ³	USEPA method-5	12.0	12.5
9	Oxides of Nitrogen	mg/Nm ³	USEPA method -01	9.8	9.1
10	Sulphur Dioxide	mg/Nm ³	USEPA method -05	11.2	11.1
11	Carbon Monoxide	mg/Nm ³	Flue Gas Analyzer	16.7	17.0
12	Hydro Carbons	ppm	USEPA method -25A	19	13.5
13	TOC	µg/Nm ³	USEPA method -40 & MM9(10)	4.4	3.8
14	VOC's	µg/Nm ³	USEPA method -30 & 31	<0.001	<0.001

Method of Testing as per IS 1843 method
 All figures are in mg/Nm³ unless otherwise specified
 Method used for HF, HCl, NOx, SO2, CO, HF, TSP and VOC's
 as per IS 1843 method

Dr. Subba Reddy Mallampati
 Sr. Scientist - Environment

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Vimta
 Driven by Quality. Inspired by Science.

ISSUED TO:
M/S. VIKRAM CEMENT WORKS
A UNIT OF ULTRATECH CEMENT LIMITED
KHOR, TEH-JAWAD
DIST. NEEMUCH (M.P)

Report Number: 14029/15-16/VLL/200/01
 Issued Date: 2016-01-11
 Rev: Nil
 And Date: 16.12.2015

Page 1 of 1

SAMPLE PARTICULARS

Sample Registration Date: 2015-12-28
 Analysis Starting Date: 2015-12-29
 Test Required: Hg & its compounds, Sb+As+Pb+Co+Cr+Cu+Mn+Ni+V+their compounds
 SAMPLE COLLECTED BY VIMTA LABS LTD

Source Emission Monitoring in Line-01 Kiln stack

Sampling Date: 2015-12-21 & 22
 Analysis Completion Date: 2015-12-20
 LAB REF. NO.

TEST REPORT

Sl. No.	PARAMETERS	UDM	METHOD OF TESTING	RESULTS	
				Pre-Blank	Co-Processing with ETP Sludge
1	Chromium as Cr + their Compound	mg/Nm ³	USEPA method -29	0.021	0.017
2	Manganese as Mn + their Compound	mg/Nm ³	USEPA method -29	0.016	0.014
3	Mercury as Hg + their Compound	mg/Nm ³	USEPA method -29	<0.001	<0.001
4	Cadmium + Thallium (Cd + Tl) + their Compound	mg/Nm ³	USEPA method -29	0.024	0.019
5	Arsenic as As + their Compound	mg/Nm ³	USEPA method -29	<0.001	<0.001
6	Antimony as Sb + their Compound	mg/Nm ³	USEPA method -29	0.022	0.017
7	Lead as Pb + their Compound	mg/Nm ³	USEPA method -29	0.019	0.015
8	Cobalt as Co + their Compound	mg/Nm ³	USEPA method -29	0.023	0.019
9	Copper as Cu + their Compound	mg/Nm ³	USEPA method -29	0.027	0.024
10	Nickel as Ni + their Compound	mg/Nm ³	USEPA method -29	0.036	0.027
11	Vanadium as V + their Compound	mg/Nm ³	USEPA method -29	0.017	0.014
12	Selenium as Se + their Compound	mg/Nm ³	USEPA method -29	0.014	0.012
13	Zinc as Zn + their Compound	mg/Nm ³	USEPA method -29	0.016	0.011
14	Tin as Sn + their Compound	mg/Nm ³	USEPA method -29	0.015	0.012

Instrument used: GC-17C, CR-6E, Auto Sampler AS and GC-17C
 Minimum Detectable Limit for Metals - 0.005 mg/Nm³
 Minimum Detectable Limit for TOC - 0.1 mg/Nm³
 All the values are rounded off to 2 decimal places.

Dr. Subba Reddy Mallampati
 Sr. Scientist - Environment

Life Sciences Campus - 5, Alexandria Knowledge Park, Genome Valley, Shamshpet, Hyderabad - 500 078, India
 T : +91 40 6740 4040 F : +91 40 6740 4401 E : vimtahq@vimta.com, URL : www.vimta.com

CIN : L24110TG1990PLC011977

Joint Monitoring Results with MPPCB team during co-processing of waste							
Description	Results (07.01.2013)	Results (25.09.2013)	Results (09.05.2014)	Results (02.07.2014)	Results (30.12.2014)	Results (12.01.2015)	Results (13.06.2015)
Name of the waste co-processed	Seized Poppy Straw	Seized Poppy Straw	Seized Poppy Straw	Seized Poppy Straw	Seized Poppy Straw	Seized Poppy Straw	Opium Mort
Category of waste	Non Hazardous	Non Hazardous	Non Hazardous	Non Hazardous	Non Hazardous	Non Hazardous	Hazardous Waste
Particulate Matter (mg/Nm ³)	61	46	48	41	47	43	57
HCL (mg/Nm ³)	-	-	-	-	-	-	Traces
NOx (PPM)	626	631	955	803	1058	1093	655
SO ₂ (PPM)	80L	80L	80L	80L	80L	80L	0
CO (PPM)	178	57	89	154	95	103	41
CO ₂ (%)	0.6	3.7	4.0	9.5	0.2	0.1	9
Combustion efficiency %	-	-	-	-	-	-	99.9

Regional Office, M.P. Pollution Control Board, Ujjain.

Meeting at MoEFCC Delhi on 8th Feb-2016 wrt NGT case OA 178/2014 Sweta Narayan Vs Union of India & ors.

State Pollution Control Board	Grant and Renewal of registration authorization Rules 5 and 8 & schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Emission Monitoring & Compliance Rule 6, 18, 24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules 2008	Inventorisation of waste Rule 5(6), 8 (7) & 22 (3) & Schedule VIII r/w Rule 23 of the Hazardous Waste Rules, 2008	Training and awareness Schedule VII r/w Rule 23 of the Hazardous Waste Rules 2008	Valid recognition of Environmental Laboratories Section 12 of the EPA 1986	Identification of site for TSDf Schedule VII r/w Rule 23 of the Hazardous Waste Rules 2008	Compliance with the EIA Notification of 2006
Madhya Pradesh R-7 1. M/s VE Commercial Vehicles Ltd Formerly known as M/s Eicher Engineering Component 78-86, LA, No.3 A.B. Road Dewas	(1) Authorization No. 215 dated 21.10.2013 (2) Amendment Letter No. 1194 dated 31.10.2014 (for Co-processing of Waste M/s ACC Kymore Cement Work Kymore Dist. Katni) Validity upto 30.05.2018	Cement industries is not in our jurisdiction	MPPCB, Bhopal inventoried the Hazardous waste. Industries is capturing the data from website	Training is being provided by MPPCB & CPCB Time to Time.	--	--	--
Madhya Pradesh R-7 UltraTech Cement Limited (Unit :- Vikram Cement Works),	Authorization No. :- (1) Authorization for Co-processing of Paint Sludge from MPPCB, Bhopal letter no. 1885/HOPCB/HSMD/	• Vinta Lab report during co-processing of ETP Sludge (15-16) :- Annexure-1	MPPCB, Bhopal inventoried the Hazardous waste, Industries is capturing the data from website	Training is being provided by MPPCB & CPCB Time to Time.	MoEFCC, New Delhi approved M/s Vinta Lab, Hyderabad is monitoring all parameters	State Govt./ Administration	Industries is complying EIA notification 2006 & CPCB, New Delhi Co-processing

Khor	UM-02/2011 dated 17.10.2011 (2) Haz. Waste Authorization for Co- processing of ETP Sludge & Paint Sludge from MPPCB, Bhopal letter no. :- 177/HOPCB/HSM/D/ UN-02/2014 dated 20.02.2014 Haz. Waste Authorization from MPPCB, Bhopal letter no. : H- 44783/MPPCB/UJI dated 22.10.2015 valid upto 08/10/2020.	• Vinita Lab report during trial run for co-processing of Opium Marc :- Annexure-2, MPPCB Ujain team monitoring Results :- Annexure- 3					Guideline 2008 for as per this EIA report for co- processing is not required.
------	---	--	--	--	--	--	---

Annexure A/B

o/c

ADITYA BIRLA



UltraTech

VC/QC/EC/1.07/2015/523

Date: 17.05.2015

Member Secretary
M. P. Pollution Control Board
Paryavaran Parisar, E - 5 Arera Colony
BHOPAL (M.P.)

Subject: Submission of annual return (April 2014 to March 2015) of Hazardous Waste Form-4 for our Vikram Cement Works, Khor.

Reference: a) 426/HOPCB/HSMD/UM/-02/2010 Dated 08/03/2010
b) 1292/HOPCB/HSMD/UM/-02/2011 Dated 21/06/2011
c) 177/HOPCB/HSMD/UN-02/2014 dtd. 20/02/2014

Dear Sir,

This is with reference to Hazardous Waste (Management Handling and Transboundary Movement) Rules, 2008 and our authorization vide your reference letter Nos. 426/HOPCB/HSMD/UM/-02/2010 Dated 08/03/2010 and its renewals 1292/HOPCB/HSMD/UM/-02/2011 dated 21/06/2011 & 177/HOPCB/HSMD/UN-02/2014 dated 20/02/2014 for the hazardous waste management (viz. Handling & Storage) as per the HW (MH&TBM) Rules, 2008. We are submitting here with an annual return in Form-4 for the period April 2014 to March 2015 for our Vikram Cement, Khor - Neemuch.

Kindly acknowledge the same.

Hope you will find the same in order.

Thanking You

Yours Faithfully
For **VIKRAM CEMENT WORKS**
(Unit: Vikram Cement Works)

(S.K. Sharma)
General Manager (QC & Env.)

Copy to:
Regional Officer,
M.P. Pollution Control Board,
17, Bharatpuri, Dewas Road,
UJJAIN (M.P.) 456010

Encl: a) Form - 4
b) HW analysis report

UltraTech Cement Limited
(Unit - Vikram Cement Works)
Vikramnagar, PO Khor, Dist. Neemuch (M.P.) 458 470
Head Office: B Wing, Ahimsa Centre, 2nd Floor, Mahakali Complex Road,
Anand (East), Mumbai - 400 093 Tel: 022-66917800

Tel: 07420-230830
Toll-free: 07420-235526
Fax: 07420-235524

Website: www.ultratechcement.com
E-mail: vcnmail@adityabirla.com
CIN: L28540MH2000PLC128420

FORM-4

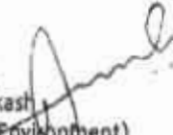
[See rules 5(6) and 22(2)]

FORM FOR FILLING ANNUAL RETURNS BY THE OCCUPIER OR OPERATION OF FACILITY

[To be submitted by occupier / operator of disposal facility to State Pollution Control Board / Pollution Control Committee by 30th June of every year for the preceding period April to March]

1. Name and address of the generator / operator of the facility : Vikram Cement Works, Post - Khor, Dist - Neemuch, (M. P.), PIN - 458470
2. Name of the authorized person and full address with telephone and fax number : S.K. Sharma
General Manager (QC & Env.)
Vikram Cement, Post - Khor, Dist - Neemuch, (M. P.), PIN - 458470
Telephone - 07420-330295
3. Description of hazardous waste : Physical form with description : Chemical form
Used oil - Black colored oil (Cat. - 5.1) : Contains Halogens, heavy metal like- Lead and nickel
Waste residue / containing oil - Black colored thick oil i. e. sludge. (Cat. - 5.2) : Contains Sediments, halogens, heavy metal like- Lead, Cadmium, chromium, nickel etc.
4. Quantity of hazardous waste (in MTA) : Type of hazardous waste : Quantity (MT)
(a) Used oil (Category - 5.1) : 13.83
(b) Waste Oil (Category - 5.2) : 14.87
5. Description of storage : Used / Waste oil is collected from various departments and collected in drums, which are kept at isolated separate earmarked Hazardous waste site an impervious floor. These are sold to the authorized recycler.
6. Description of Treatment : Not applicable
7. Details of transportation : Name & address of consignee : Mode of packing : Mode of transportation : Date of transportation
M/s. Bharat Industrial Oil Company, Jaipur : Filled in closed Tankers : By Road : 19.07.2014
M/s. Haryana Petro Oil, Sirsa : Filled in closed Tankers : By Road : 14.11.2014
M/s. Bharat Industrial Oil Company, Jaipur : Filled in closed Tankers : By Road : 19.03.2015
8. Details of disposal of hazardous waste : Name & address of consignee : Mode of packing : Mode of transportation : Date of transportation
M/s. Bharat Industrial Oil Company, Jaipur & M/s. Haryana Petro Oil, Sirsa : Filled in closed Tankers : By Road
9. Quantity of useful materials sent back to the manufacturers and others : Name and type of material sent back to : Quantity in Tonnes / KL
Manufacturers : Nil
Others :

Date: 17.05.2015
Place: Khor

Signature: 
Anand Prakash
Manager (Environment)



HITECH TESTING AND RESEARCH CENTRE PVT. LTD.

NABL ACCREDITED LABORATORY & RECOGNIZED BY MOEF

Dyna House, F-1/7, Okhla Industrial Area, Phase-1, New Delhi - 110020

Telephone: 011-26108511, 26108512

E-mail: info@hitechlab.com

Website: www.hitechlab.com

TEST REPORT

Report No. PD-20140127-1

Sample ID: MSJ (Leakage) Cement
Client: Nektar Cement
Address: Haryana
PO: Khar-Dhar, Sonapat, Haryana

Marked as: Cement Plant

Nature of Sample: Used Oil

Sample Collected By: Paris

Date of Sample Recd: 27/01/14

Sample Received By: [Signature]

TEST RESULT

Sl. No.	Parameter	Result	Unit	Test Method	Limit as per CPCB Guidelines Schedule 5 (Part A)
1	Lead Content	0	ppm	B/S/S	100
2	Arsole Content	0	ppm	B/S/S	100
3	Cadmium + Chromium + Nickel	0	ppm	B/S/S	100
4	Poly-aromatic hydrocarbon (as PAH)	0	ppm	B/S/S	100
5	Poly-chlorinated hydrocarbon (as PCB)	0	ppm	B/S/S	100

[Signature]
Dr. MANJESH
Gen. Manager

ADITYA BIRLA



UltraTech

VC/QC/EC/6.06/2015/ 602

Date: 26.05.2015

→ Member Secretary

M. P. Pollution Control Board,
Paryavaran Parkar, E - 5, Arera Colony,
BHO PAL (M.P.)

Subject: Submission of annual return in Form-4 for Hazardous Waste Paint Sludge (Cat. 21.1) for the period of April 2014 to March 2015.

Ref: a). 1292/HOPCB/HSMO/UM-02/2011 Dated 21/06/2011
b). 177/HOPCB/HSMO/UN-02/2014 dtd. 20/02/2014

Dear Sir,

This is with reference to Hazardous Waste (Management Handling and Transboundary Movement) Rules, 2008 and our authorization vide your reference letter Nos. 1292/HOPCB/HSMO/UM-02/2011 dated 21/06/2011 & 177/HOPCB/HSMO/UN-02/2014 dated 20/02/2014 for the hazardous waste management. We are submitting here with an annual return in Form-4 for the period April 2014 to March 2015 for our Vikram Cement, Khur - Neemuch.

The hazardous waste has been disposed through co-incineration in our Vikram Cement Line III cement kiln during the period April 2014 to March 2015.

Kindly acknowledge the same.

Hope you will find the same in order.

Thanking You
Yours Faithfully
For VIKRAM CEMENT WORKS

Amul
S.K.Sharma
General Manager (QC/Env.)

Copy to:
Regional Officer,
M. P. Pollution Control Board,
17, Bharatpuri, Dewas Road,
UJJAIN (M.P.) 456010

Encl: a) Form - 4

UltraTech Cement Limited

(Unit - Vikram Cement Works)

Village: RD, Khur, Dist. Neemuch (M.P.) 458 470

Regd. Office: B Wing, Alura Centre, 2nd Floor, Mahatma Jyoti Bapu Road,

Amher, (Bihar), Mumbai - 400 091 Tel: 022-46917800

Tel: 07420-235020

Mobile: 07420-235026

Fax: 07420-235524

Website: www.ultratechcement.com

E-Mail: corporate@ultratech.com

CIN: L28480MH2000PLC128420

FORM 4

[See rules 5(6) and 22(2)]

FORM FOR FILLING ANNUAL RETURNS BY THE OCCUPIER OR OPERATION OF FACILITY

[To be submitted by occupier / operator of disposal facility to State Pollution Control Board / Pollution Control Committee by 30th June of every year for the preceding period April to March]

1. Name and address of the generator / operator of the facility : UltraTech Cement Ltd. (Unit- Vikram Cement Works), Post - Khor, Dist - Neemuch, (M. P.), PIN 458470
2. Name of the authorized person and full address with telephone and fax number : S.K.Sharma
General Manager (QC/Env.)
Vikram Cement, Post - Khor, Dist - Neemuch, (M. P.), PIN 458470
Telephone - 07820-230295
3. Description of hazardous waste : Physical form with description : Chemical form
Paint Sludge -Solid form (Cat. 21.1) : Contains Cd, Cr, Cu, Fe, Ni, Mn, Ni etc.
ETP Sludge - Solid form (Cat. 34.3)
4. Quantity of hazardous waste (in MT) : Type of hazardous waste : Quantity (MT)
(a) Paint Sludge (Category - 21.1) : 40.71
(b) ETP Sludge (Category - 34.3) : 735.53
5. Description of storage : Paint Sludge stored in covered area as per the guidelines of CPCB.
6. Description of Treatment : Co-processing
7. Details of transportation :

Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
S.K. Transports, 6, Jitmal Complex, A-B Road, Dewas (M. P.)	Filled in HDPE bags.	By Road	Details already submitted with Manifest
8. Details of disposal of hazardous waste. :

Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
UltraTech Cement Ltd. (Unit- Vikram Cement Works), Post - Khor, Dist - Neemuch, (M. P.)	Filled in HDPE bags.	By Road	Details already submitted with Manifest

(We have co-processed paint sludge generated from M/s Mahindra Two Wheelers Ltd & VE Commercial Ltd, Pithampur)
9. Quantity of useful materials sent back to the manufacturers and others :

Name and type of material sent back to	Quantity in Tons / KL
Manufacturers	
Others	Not applicable

Date: 26.05.2015
Place: Khor

Signature: 
S.K.Sharma
General Manager (QC/Env.)

Information w.r.t. letter dated 08/02/2016 received from Shri. P. K. Gupta, Add. Director CPCB

Name of State Pollution Control Board	Grant and Renewal of registration/ authorization Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Emission Monitoring & Compliance Rule 6, 18, 24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Inventorisation of waste Rule 5(6), 8(7), & 22(3) & Schedule VIII r/w Rule 23 of the Hazardous Waste Rules, 2008	Training and awareness Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Valid recognition of Environmental Laboratories Section 12 of the EPA, 1986	Identification of site for TSDF Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Compliance with the EIA Notification of 2006
Maharashtra Pollution Control Board	No authorization has been granted to use H.W., as a co-processor in cement industries. However only trial permission were granted to M/s. Ambhujia cement on 28/03/2013 valid up to 31/03/2013 and not renewed. Also Board has granted NOC for co-processing of date expired product/batch rejections and raw materials from pharmaceutical.	The Air quality monitoring carried out during the 28/09/2013 to 23/03/2014, which is enclosed herewith.	Board has carried out inventory of H.W., which is available on M.P.C. Boards website.	As per the schedule VII of the H.W. Rules, this issue is related with CPCB	Status of MoEF recognition under E (P) Act 1986 for Board Laboratories is enclosed herewith.	In Maharashtra there are 4 common hazardous Waste treatment and disposal facilities are in operation. The details of facilities are enclosed.	This is related to MoEF

Member Secretary

Details of Common Hazardous Waste Treatment Storage and Disposal facility in the State of Maharashtra

Sr No.	Criteria	MWML, Talaja	TTCWMA, Mahape	MEPL, Rajangaon	VEPL, Butibori
1	Details of the facility	M/s. Mumbai Waste Management Limited, Plot No. P-32, MIDC, Talaja, Tal: Panvel, Dist: Riagad	M/s. Trans Thane Waste Management Association P-128, Shil-Mahape Road, Next to L&T Infotech Ltd. Mahape, Navi-Mumbai-400105	M/s. Maharashtra Enviro Power Ltd. (SPV of M/s. Shaktikumar M. Sancheti Ltd) Plot No. 56, MIDC Ranjangaon, Taluka- Shirur, Dist - Pune.	M/s. Vidharbha Enviro Protection Ltd. (SPV of M/s. Shaktikumar M. Sancheti Ltd) Sr.No.7 to 15, 131 & 162, Butibori Industrial Area, Mouza- Mandawa, Taluka- Hingana, Dist- Nagpur.
2	Area of Facility	40 Hect.	7 Hect	30 Hect.	30 Hect.
3	Date of letter of Intent/ Award	10.09.2001	--	02.07.2004	02.07.2004
4	Site Notification	10.09.2001	24.03.1999	28.07.2006	28.07.2006
5	Land lease agreement	24.02.2002	09.05.2000	13.08.2004	13.08.2004
6	In Operation / Under construction	Commissioned since 2001	Commissioned since Jan 2004	SLF- Commissioned Since Jan 2007 Incinerator-Commissioned since November 2008	SLF- Commissioned since Feb 2007 Incinerator- Commissioned since November 2008
7	Life of Facility.	20 Years- Service 30 Years- Post Monitoring and maintenance	5.0 Year - Service 30 Years- Post Monitoring & Maintenance	20 Year - Service 30 Years- Post Monitoring & Maintenance	20 Year - Service 30 Years- Post Monitoring & Maintenance
8	Capacity of the Facility	SLF- 120,000 MT/ Year 1. INC - 2.5 TPH. 2. INC- 2.5 TPH	SLF- 10,000 MT/Year INC-No Facility (Incinerable HW sent to Talaja)	SLF- 60,000 MT/Year INC-3 TPH	SLF- 60,000 MT/Year INC-3 TPH

(Dsp) 157/16

Sr. No.	Date	Location	SO ₂	Nox	TPM Limit 50 mg/Nm ³
1	28/09/2013	ESP outlet attached to main kiln	Nil	.....	8.07
2	28/09/2013	Bagfilter attached to cement mill 4	.....	.....	5.15
3	28/09/2013	Bagfilter attached to Packer mill 4	.....	.....	15.71
4	28/09/2013	ESP Outlet attached to CPP Boiler 2	Nil	.....	7.83
5	28/09/2013	ESP Outlet attached to CPP Boiler 3	48.19	.....	11.21
6	28/09/2013	Bagfilter Attached to Coal Mill	.....	.....	8.72
7	07/01/2014	Raw Mill Kin Attached to ESP	85.28	.....	10.52
8	07/01/2014	ESP Outlet Attached to CPP Boiler 1	2291.92	.....	6.56
9	07/01/2014	ESP Outlet Attached to CPP Boiler 3	Nil	.....	4.50
10	07/01/2014	Bagfilter attached to Cement Mill 1	.....	.....	5.63
11	07/01/2014	ESP Outlet attached to CPP Boiler 4	Nil	.....	7.17
12	07/01/2014	Bagfilter Attached to Cement Mill 3	.....	.....	8.40
13	22/03/2014	GBH Attached to Main Kin	133.10	.....	4.70
14	22/03/2014	ESP Outlet attached to CPP Boiler 1	52.23	.....	3.92
15	22/03/2014	ESP Outlet attached to CPP Boiler 4	12.19	.....	1.84
16	22/03/2014	Bagfilter Attached to Cement Mill 1	.....	.....	1.80
17	23/03/2014	Bagfilter Attached to Cement Mill 2	.....	.....	1.92
Min			12.19	0	1.8
Max			2291.92	0	15.71
Average			437.1517	0	6.69117647

Stack Results

At- upparwah! Tah- Rajura, Dist - Chandrapur.

M/s. Ambuja Cement

2014



 15/1/14

M/s. Ambuja Cement			
At- Upparwahi Tah. Rajur, Dist - Chandrapur.			
Ambient Results			
Sr. No.	Date	Location	
1	10 & 11/01/2013	L Type Hostel	BDL
2	10 & 11/01/2013	Near Bachelor Hostel	BDL
3	10 & 11/01/2013	Near Magazine	BDL
4	7/3/2013	Near Magazine	BDL
5	7/3/2013	Near Bachelor Hostel	BDL
6	7/3/2013	Near L Type Hostel	BDL
7	28 & 29/9/2013	Magazine House	BDL
8	28 & 29/9/2013	L Type Hostel	BDL
9	28 & 29/9/2013	Bachelor Guest House	6.52
10	7/1/2014	Magazine House	BDL
11	7/1/2014	Near Magazine	BDL
12	7/1/2014	L Type Hostel	BDL
13	7/1/2014	L Type Hostel	BDL
14	7/1/2014	Bachelor Guest House	BDL
15	7/1/2014	Bachelor Guest House	BDL
16	8/1/2014	Near Magazine	BDL
17	8/1/2014	L Type Hostel	BDL
18	8/1/2014	Bachelor Guest House	BDL
19	22 & 23/03/2014	Near Magazine	BDL
20	22 & 23/03/2014	Near Guest House	5.0
21	22 & 23/03/2014	Near L Type Hostel	7.08
		Min	10.8
		Max	7.08
		Average	5.935
			10.8
			138.81

SO₂ Limit 80 µg/m³
 NO_x Limit 80 µg/m³
 RSPM Limit 100 µg/m³

Status of MoEF Recognition under (P) Act, 1986 for Board's Laboratories

Sr. No.	Laboratory Name	Validity	Current Status
1	C.Lab., Navi Mumbai	May, 2020	Renewed upto May, 2020
2	R.Lab., Pune	Feb, 2015	Renewal approved. Notification is awaited
3	R.Lab., Nagpur	Feb, 2016	Due for Renewal
4	R.Lab., Nashik	Feb, 2016	Due for Renewal
5	R.Lab., Aurangabad	Feb, 2016	Due for Renewal
6	R.Lab., Chiplun		Applied on 27.11.2015



ANDHRA PRADESH POLLUTION CONTROL BOARD

Paryavarana Bhavan, A-III, Industrial Estate,
Sanathnagar, Hyderabad-500 018

Phone : 040-23887500

Website : www.appcb.ap.nic.in

SPEED POST

Lr. No. APPCB/UH:IV/HMW/NGT/178 of 2014/HO/2016-

Dt. 10.02.2016.

To

The Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan,
CBD-cum-Office Complex East Arjun Nagar,
DELHI - 110 032.

Sir,

Sub: APPCB - UH:IV - HWM - Meeting on Co-processing of wastes in cement kiln - Hon'ble NGT order - Original application No. 178 of 2014 - Information communicated - Reg.

- Ref:**
1. CPCB letter No.b-33014/7/2016/PCI-II, DT. 01.02.2016.
 2. CPCB letter No. B-33014/7/2016/PCI-II, dt 03.02.2016.
 3. Meeting held on 08.02.2016 in Delhi.
 4. Email dt.09.02.2016 received from Addl. Director/Sc.E, CPCB, Delhi

With reference to the above, it is to inform that the letter pertaining to the above matter was received by the Telangana State Pollution Control Board (TSPCB) and hence the Andhra Pradesh Pollution Control Board (APPCB) could not be deputed Board officials to the meeting. It was informed that information is requested in prescribed format by CPCB. A copy of the format was given to the Board by TSPCB on 09.02.2016. It is also noted that the matter is listed for hearing on 24.02.2016.

In this connection, information pertaining to APPCB is herewith enclosed in the prescribed format along with enclosures for information and for taking further necessary action.

Encl : as above

Yours faithfully,

Sd/-
MEMBER SECRETARY

Copy to:

1. The Additional Director / Sc.E.(Sri P.K.Gupta), Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, DELHI - 110 032 for information and further necessary action (email: pkg64us@yahoo.com).
2. Sri Nikhil Nayyar, Advocate, Standing Counsel of APPCB, D-131, Panchsheel Enclave, New Delhi - 110017.
3. The JCEE, UH:III, APPCB, HO for information and necessary action.

//T.C.F.B.O.//

K. Rao 11/2/16
Joint Chief Environmental Engineer
UH-IV

Shweta Narayana v. Union of India and Ors.
[O.A. 178 of 2014]

State Pollution Control Boards	Grant and Renewal of registrations/authorisation Rule 5 and 8 & Schedule VII Rule 23 of the Hazardous Waste Rules, 2008	Emission Monitoring & Compliance Rule 6, 18, 24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Inventorisation of Waste Rule 5(6) & (7) & 22(3) & Schedule VIII r/w Rule 23 of the Hazardous Waste Rules, 2008	Training and Awareness Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Valid Recognition of Environmental Laboratories Section 12 of the EPA, 1986	Identification of site for TSDG Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Compliance with the EIA Notification of 2006
Andhra Pradesh R-10	3 cement plants in the State have been issued regular permission by the CPCB. They are M/s. Ultratech Cement Ltd., Ammapur; M/s. Zuari Cement Ltd., Kadapa and M/s. Bharathi Cement Corporation Private Ltd., Kadapa. Details submitted separately (Annexure -) R-10/A1	The industries carried out monitoring with NABH accredited laboratories/MOEF recognized laboratories. The copies of the reports are enclosed. The Board monitored data is also enclosed (Annexure -) R10/A2	APPCB has carried out the fresh Hazardous Waste Inventory with reference to the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 through M/s. Centre for Environment and Development, Tiruvananthapuram, M/s. Green Origin Ventures Pvt. Ltd., Puzhugutta, Hyderabad and M/s. Lahmeyer-GKW Consult GmbH, Germany under world bank project.	The Board in association with III, Mumbai conducted training programme for the Board officials on "Pharma Industry - Environmental Management in Pharma"	The Board Laboratory is now with Telangana State Pollution Control Board. The APPCB is not having accredited laboratory. NABH accreditation is under process. Meanwhile monitoring is being done by Zonal laboratories of APPCB.	Coastal Waste Management Project (CWMF), Visakhapatnam is operating TSDP facility. The CFO of the facility is valid upto 31.05.2016.	As per 7(d) of EIA notification, 2006 states that the common Integrated Hazardous Waste, Treatment, Storage and Disposal Facilities (TSDF) having incineration and landfill or incineration alone shall require Environmental Clearance from MoEF, Gov.

P.T.O.

				<p>As per the Hazardous Waste inventory carried out in 2014, the generation of hazardous waste from 1924 industries is as follows (Per annum)</p> <p>Land fillable : 1,37,271.20 TPA Recyclable : 3,46,574.86 TPA Incinerable : 75,088.06 TPA</p>	<p>The Board is also deputing officials to various training programmes conducted by CPCB and other reputed institutes / agencies on management of Hazardous waste.</p>			<p>Whereas the co-incineration is being done in Cement Plants of A.P. which are already having Environmental clearances</p>
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ANNEXURE -
R-10/A3

The Status of Co-processing of Hazardous Waste in Cement units in Andhra Pradesh

Sno.	Name and address of the industry	Name of the Hazardous waste for which permission granted	Regular permission	Consent status	Qty. of Hazardous waste handled in 2015
1.	M/s. Ultra Tech Cement Ltd., Ananthapur District	Solid and liquid spent organic solvents	CPCB order No. B-33014/H-8/2009/PCI-II/8535-37, dt.13.08.2010. Amendment Order No. 2014/AT-CP/10/PCI-II/3996 dt.28.07.2013 CPCB order No. 2014/AT-CP/RP/PCI-II/91 dt.30.03.2015 CPCB order No. B-33014/2015/PCI-II/4825 dt.28.09.2015	CFO & HWA valid upto 30.09.2016	ETP sludge (soft drink industry) - 104.9 MT Spent carbon (soft drink industry) - 190.05 MT WTP sludge (soft drink industry) - 113.83 T Liquid Organic residue (Pharma industry) - 39.88 T Total : 448.66 MT
2.	M/s. Bharathi Cement Corporation Ltd., Kamalapuram (M), Kadapa District	ETP bio waste, WTP sludge and spent carbon of soft drink industry; paint sludge, phosphate sludge, grinding dust, oily rags and ETP sludge of auto mobile industry; ETP sludge of textile industry; spent catalyst and refinery sludge of refinery industry. Date expired, discarded & off specification Drugs/ medicines. (pharmaceutical industries); Process / distillation residues and wastes (pharmaceutical industries); Process wastes & Residues(Pesticides/ Agro chemical industries); Chemical ETP Sludge (Agro chemical industries); Spent Carbon (Pharmaceutical industries); Dismantled Lube / Fuel oil filter (Diesel loco shed); Waste/ residues (sludge from process) and filters & filter materials (polymer industries) Solid and liquid spent organic solvents	CPCB order No. 33014/2012/PCI-II/2779 dt.27.06.2013 CPCB order no.B-33014/2015/PCI-II/ dt.28.12.2015	CFO & HWA valid upto 30.09.2020	Liquid solvents - 9105 T Solid waste (Pharma industry) - 3136 T ROF - 9900 T Total: 22252 T
3.	M/s. Zuari Cements Ltd., Yerraguntal (M), Kadapa District	Distillation residue (both liquid and solid) and spent carbon (pharma industry)	CPCB order no.B-33014/2015/PCI-II/9966 dt.08.09.2015	CFO & HWA valid upto 31.03.2018	Solid - 1071.6 T Liquid - 1095.8 T Spent Carbon - 285.1 T

**M/s. Ultra Tech Cement Ltd,
Ananthapur District.**



Special Post

केंद्रीय प्रदूषण नियंत्रण बोर्ड

CENTRAL POLLUTION CONTROL BOARD

परिषद्, वा. प्र. संस्थान, प्रदूषण नियंत्रण बोर्ड, नया दिल्ली
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE, GOVT. OF INDIA

B-33014/2015/PC/II/ 4825

Date: 28.9.2015

To
UltraTech Cement Ltd.,
Andhra Pradesh Cement Works,
Village : Bhogasamudram,
Mandal : Tadipatri,
Dist. : Anantapur,
Andhra Pradesh 515 415

Sub.: Regular permission for co-processing of hazardous waste in cement kiln - reg.
Ref: Your letter no; nil dated 10.8.2015

Sir,

In reference to above cited letter, permission is hereby accorded for co-processing of hazardous wastes viz. date expired, discarded & off specification drugs / medicines (pharmaceutical industries); process / distillation residues and wastes (pharmaceutical industries); process wastes and residues (pesticides / agro chemical industries); chemical ETP sludge (agro chemical industries); spent carbon (pharmaceutical industries); dismantled lube / fuel oil filter (Diesel Loco Shed); waste / residues (sludge from process) and filters & filter materials (polymer industries), under the Rule 11 of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, subject to compliance of various provisions of the Environment (Protection) Act, 1986 including the following:

1. The permission is valid only for co-processing of above specified hazardous wastes. The waste characteristics should be similar to that for which trial run has been conducted by CPCB/SPCB. The details are enclosed in Annexure. Prior permission has to be obtained for co-processing of any other hazardous waste.
2. The cement plant shall obtain the authorization from the concerned State Pollution Control Boards as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste.
3. For transportation of proposed hazardous wastes for co-processing in cement kiln, manifest system as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and guidelines of CPCB shall be followed.
4. The generator of hazardous waste shall obtain authorization from the State Pollution Control Board as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste in cement plant.
5. The cement plant shall estimate the quantity of hazardous waste required to be co-processed. Cement industry shall provide adequate covered storage space for the hazardous waste in accordance with Hazardous Waste Rules and guidelines for storage of hazardous waste. The occupier shall also ensure that there is no leaching of any pollutant. The actual quantity of hazardous waste co-processed monthly shall be reported by cement plant and hazardous waste generator to CPCB and SPCB.
6. The cement plant shall ensure the compliance of the conditions stipulated in the consents issued under the Air Act, 1981 and Water Act, 1974 during the co-processing of hazardous waste.

Received of
02/10/2015

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

दूरभाष/Telex: 43102030, 22305792, वेबसाइट/Website: www.cpcb.nic.in

7. Cement industry shall comply the proposed emission standards for co-processing which includes PM, SO₂, NO_x, HCl, HF, TOC, heavy metals and dioxins & furans (copy enclosed).
8. The cement plant shall take the hazardous waste only from the authorized generator.
9. Hazardous waste supplier shall inform the quantity of waste supplied to cement plant to CPCB.
10. A log book of the waste co-processed shall be maintained including emission monitoring result during co-processing.
11. During co-processing of hazardous waste in cement kiln, the cement plant shall comply with all the requirements in accordance with the Public Liability Insurance Act, 1991 as amended.
12. CPCB & SPCB shall monitor the emission from co-processing to verify the compliance of proposed standards.
13. In case of any violation in the conditions stipulated, the permission can be withdrawn at any time.
14. CPCB reserves the right to review / impose additional conditions or revoke, change or alter any of the terms and conditions.

Yours faithfully

S. S. Bala
(Dr. S. S. Bala)

Director & I/c PCHI Div

Encl.: As above



Special Post

केन्द्रीय प्रदूषण नियंत्रण बोर्ड

CENTRAL POLLUTION CONTROL BOARD

परिवेश, वन एवं जलवायु विभाग, मंत्रालय, भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE, GOVT. OF INDIA

B-33014/2015/PC-III

4825

Date: 28.9.2015

To

UltraTech Cement Ltd.,
Andhra Pradesh Cement Works,
Village : Bhogasamudram,
Mandal : Tadipatri,
Dist. : Anantapur
Andhra Pradesh 515 415

Sub.: Regular permission for co-processing of hazardous waste in cement kiln - reg.
Ref: Your letter no. nil dated 10.8.2015

Sr.

In reference to above cited letter, permission is hereby accorded for co-processing of hazardous wastes viz. date expired, discarded & off specification drugs / medicines (pharmaceutical industries); process / distillation residues and wastes (pharmaceutical industries); process wastes and residues (pesticides / agro chemical industries); chemical ETP sludge (agro chemical industries); spent carbon (pharmaceutical industries); dismantled lube / fuel oil filter (Diesel Loco Shed); waste / residues (sludge from process) and filters & filter materials (polymer industries), under the Rule 11 of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, subject to compliance of various provisions of the Environment (Protection) Act, 1986 including the following:

1. The permission is valid only for co-processing of above specified hazardous wastes. The waste characteristics should be similar to that for which trial run has been conducted by CPCB/SPCB. The details are enclosed in Annexure. Prior permission has to be obtained for co-processing of any other hazardous waste.
2. The cement plant shall obtain the authorization from the concerned State Pollution Control Boards as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste.
3. For transportation of proposed hazardous wastes for co-processing in cement kiln, manifest system as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and guidelines of CPCB shall be followed.
4. The generator of hazardous waste shall obtain authorization from the State Pollution Control Board as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste in cement plant.
5. The cement plant shall estimate the quantity of hazardous waste required to be co-processed. Cement industry shall provide adequate covered storage space for the hazardous waste in accordance with Hazardous Waste Rules and guidelines for storage of hazardous waste. The occupier shall also ensure that there is no leaching of any pollutant. The actual quantity of hazardous waste co-processed monthly shall be reported by cement plant and hazardous waste generator to CPCB and SPCB.
6. The cement plant shall ensure the compliance of the conditions stipulated in the consents issued under the Air Act, 1981 and Water Act, 1974 during the co-processing of hazardous waste.

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

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Received
02/10/2015

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8. The cement plant shall take the hazardous waste only from the authorized generator.
9. Hazardous waste supplier shall inform the quantity of waste supplied to cement plant to CPCB
10. A log book of the waste co-processed shall be maintained including emission monitoring result during co-processing.
11. During co-processing of hazardous waste in cement kiln, the cement plant shall comply with all the requirements in accordance with the Public Liability Insurance Act, 1991 as amended.
12. CPCB & SPCB shall monitor the emission from co-processing to verify the compliance of proposed standards.
13. In case of any violation in the conditions stipulated, the permission can be withdrawn at any time.
14. CPCB reserves the right to review / impose additional conditions or revoke, change or alter any of the terms and conditions.

Yours faithfully

S. S. Bala
(Dr. S. S. Bala)

Director & I/c PCI-II Div

Encl.: As above



ANDHRA PRADESH POLLUTION CONTROL BOARD
 PARYAVARAN BHAVAN, A-3, INDUSTRIAL ESTATE,
 SANATHNAGAR, HYDERABAD

Phone: 040-23887500
 Fax: 040-23810000
 Gram: (1) Day/Night
 Website: www.appcb.org



**BY REG. POST WITH ACK. DUE
 CONSENT & AUTHORISATION ORDER**

Consent Order No : APPCB/KNU/ATP/184/HQ/CFO/2014- 732

(Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof, Operation of the plant under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation / Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary, Movement) Rules 2008 & Amendments thereof.

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, under section 21 of Air (Prevention & Control of Pollution) Act 1981 and Authorisation under the provisions of HW (MH & TM) Rules (hereinafter referred to as 'the Acts' 'the Rules') and the rules and orders made thereunder to

M/s. Ultra Tech Cement Ltd.,
 Bhogaramudram(V), Tadipatri(M),
 Anantapur District

(hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of Emissions per hour from the chimneys as detailed below.

i) Outlets for discharge of effluents:

Outlet No.	Outlet-Description	Max Daily Discharge KLD	Point of Disposal
1.	Boiler Blow down	180	After neutralization and settling the waste water shall be used for sprinkling on roads/ dust suppression/ green belt development.
2.	Vehicle washing	3	After separation of Oil and Grease and settling, the waste water shall be used for onland for gardening.
3.	Domestic	480	After treatment in STP, waste water shall be used for onland for gardening.

ii) Emissions from chimneys:

Chimney No.	Description of Chimney
	Phase -I
1.	Attached to Lime Stone Crusher
2.	Attached to Coal mill
3.	Attached to Raw mill and Rotary Kiln (6900 TPD)
4.	Attached to sepax separator -I
5.	Attached to sepax separator -II
6.	Attached to Packer -I
7.	Attached to Packer -II
8.	Attached to Packer -III
9.	Attached to Packer -IV
10.	Attached to Packer -V
11.	Attached to Packer -VI
12.	Attached to Clinker cooler
13.	Attached to Cement mill -I
14.	Attached to Cement mill -II
15.	Attached to 12.27 MW DG set (stand by)
16.	Attached to 12.27 MW DG set (stand by)

	Phase -II
17.	Attached to Lime Stone crusher
18.	Attached to Coal mill
19.	Attached to Raw mill and Rotary Kiln (12550 TPD)
20.	Attached to Cement mill -II & IV
21.	Attached to Cement mill - V
22.	Attached to Packer -I
23.	Attached to Packer -II
24.	Attached to Packer -III
25.	Attached to Packer -IV
26.	Attached to Clinker cooler
	Captive Thermal power plant
27.	Attached to 2 X 115 TPH Boilers of 50 MW TPP -I
28.	Attached to 2 X 115 TPH Boilers of 50 MWTPP -II

iii) HAZARDOUS WASTE AUTHORISATION (FORM - II) [See Rule 5 (4)]

M/s. Ultra Tech Cement Ltd., Bhogesamudram(V), Tadipatri(M), Anantapur District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• HAZARDOUS WASTES DISPOSAL OPTION:

S.No	Name of the Hazardous waste	Stream	Quantity of Hazardous waste	Disposal Option:
1.	Tank Bottom Sludge	3.3 Schedule -I	78 KL/Annum	Shall be used in cement kiln for co-processing within the plant premises.
2.	Used grease	5.2 Schedule -I	24.2 TPA	
3.	Gears (grease)	5.2 Schedule -I	24.5 TPA	
4.	Waste /Used oil	5.1 Schedule -I	70.8 KL /Annum	Shall be disposed to the authorized recyclers/ re-processors.
5.	Transformer oil	5.1 Schedule -I	5 KL/Annum	
6.	High Chrome Forge wheel balls	21 Schedule - IV	40 TPA	Shall be disposed to the authorized recyclers/ re-processors.

The industry is also permitted to procure the following high calorific value Hazardous Wastes from the Authorized Industries for being used in co-processing in the cement kiln.

Sl. No.	Industry	Waste Material Name	Quantity /Year
1	Petroleum Refinery	Oily sludge/ emulsion	10000 MT
		Spent Catalyst	
		Slop oil	
		Organic residue from process	
		Chemical sludge from Waste water treatment	
		Any other Wastes	
2	Bulk drug Industries	Spent Carbon	20000 MT
		ETP sludge	
		Still bottom residue	
		Spent residue	
		Mother liquors	
		Any other Wastes	
3	Paint Industry	Paint sludge	10000 MT
		Waste paint	
		ETP Sludge	
		Waste oil	
		Any other Wastes	
4	Soft Drinks	ETP Sludge	1000 MT
		Waste oil	
		Spent carbon	
		Any other Wastes	

5	Textile Industry	ETP Sludge	5000 MT
		Waste oil	
		Any other Wastes	
6	Dyeing Industry	ETP Sludge	2000 MT
		Waste oil	
		Any other Wastes	
7	Automobile Industry	Paint Sludge	10000 MT
		ETP Sludge	
		Waste oil	
		Oil soaked cotton waste	
		Any other Wastes	
8	Pharmaceuticals	Spent Carbon	10000 MT
		ETP sludge	
		Spent Catalyst	
		Waste oil	
9	Cement Industry	Furnace oil sludge	120 KL
		Waste oil	
		Any other Wastes	
10	Refined oil industry	ETP sludge	5000 MT
		Spent catalyst	
		Any other Wastes	
11	Pesticides	ETP sludge	3000 MT
		Still bottom residue	
		Waste oil	
		Spent solvent	
		Any other wastes	
12	Tyres	Waste tyre & Waste rubber / chips	10000 MT
13	Local sunflower fields	Waste stems / wood	5000 MT
14	Surrounding Municipalities	Municipal wastes	5000 MT
15	Rice Mills	Rice Husk	5000 MT
16	Oil Mills	Groundnut Husk/ Coconut husk	5000 MT

This consent order is valid to manufacture the following products along with quantities only

S.No	Products	Capacity
1	Clinker	6.5 Million TPA
2	Cement (Blended) OPC+PPC+PSC	9 Million TPA
3	Electricity	100 MW (Coal based)
		4 MW (Waste heat recovery from exhaust gases)
4	Converter to change semi solid of Hazardous wastes into liquid state	30 TPD

(The cement production is inclusive of 6.5 Million TPA clinker)

*The sulphur content in the coal used as fuel shall not exceed 0.8%.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorisation should be valid for a period ending with the 30th day of September 2016.

Sd/-
MEMBER SECRETARY

To
M/s. Ultra Tech Cement Ltd.,
Bhogasamudram(V), Tadipatri(M),
Anantapur District - 515415.

Copy to:

1. The JCEE, Zonal Office, Kurnool for information and necessary action.
2. The JCEE (Cess), APPCB, Hyderabad for information.
3. The Environmental Engineer, Regional Office, Kurnool for information and necessary action.

//T.C.F.S.O//

10/12/14
JOINT CHIEF ENVIRONMENTAL ENGINEER
UH-IV

SCHEDULE - A

1. The applicant should make application through online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorization of the Board.
2. This order is issued in line with Board's CFE order dated 07.09.2008, 06.12.2010 & dt.29.02.2012. Concealing the factual data or submission of false information/ fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.
3. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.
4. The project occupier should immediately submit the revised application for consent to this Board in the event of any change in the building and site specifications, quantity of trade effluents & quantity of emissions etc.
5. The applicant should not change or alter either the quality or the quantity or the rate of the discharge or the route of discharge and should not change or alter either the prescribed quality or the rate of emission without the previous written permission of the Board.
6. The applicant should, not later than 30 days from the date of issue of this consent order, certify in writing to the Board that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent. In absence of alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent, production should be stopped.
7. Any up-set condition in the project, which results in increased effluent discharge and/ or violation of standards stipulated in this order or the emission of any Air Pollutant into the environment in excess of the standards laid down by the Board occurs or is apprehended to occur due to accident, or other unforeseen act or event, the person-in-charge of the premises, from where such discharge / emission occurs or is apprehended to occur should forthwith intimate the fact of such occurrence or the apprehension of such occurrence to this Board, by fax / email under intimation to the Collector and District Magistrate.
8. In case of such episodal discharges / emissions mentioned in item 5 above, the project should take immediate action to bring down the discharge / emission below the limits prescribed in this order.
9. A good housekeeping should be maintained in the premises. All hoods, pipes, valves, sewers and drains should be leak proof. Floor washings should be admitted into the effluent collection system only and should not be allowed to find their way into storm drains or open areas.
10. a) The project should carryout analysis of waste water discharges or emissions through chimneys, for the parameters mentioned in Schedule - B of this Order at regular intervals.
b) The project should maintain following records for access to the Board, whenever required.
 1. Analysis reports of waste water/ emissions.
 2. Log book for operation of pollution control systems.
 3. Inspection book
11. Separate power connection with energy meter should be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment should be maintained separately.
12. The applicant should comply with the directives/orders issued by the Board in this order and at all subsequent times without any negligence on his part. The applicant should be liable for such legal action against him as per provisions of the Law/Act in case of non-compliance of any order/directive issued at any time and/or violation of the terms and conditions of this consent order.
13. The applicant should furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
14. The project is liable to pay compensation for any environmental damage caused by it, as fixed by the Collector and District Magistrate as Civil liability.
15. All the rules & regulations notified by Ministry of Environment and Forests, Government of India in respect of management, handling, transportation and storage of hazardous chemicals and wastes should be followed.

16. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed.
17. The occupier should educate the workers and nearby public of possible accidents and remedial measures.
18. For any accident or spillage of hazardous wastes causing damage to the Environment, the occupier or the transporter as the case should be held responsible.
19. The occupier should prepare/update Emergency preparedness plan for safe handling of hazardous waste from time to time and submit the same to APPGB. Emergency preparedness plan must be implemented immediately whenever there is fire, explosion or release of hazardous waste or hazardous waste constituents, which could endanger to human health or environment.
20. Packaging, labeling and transportation of Hazardous Wastes should be in accordance with the provisions of the rules issued by the Central Govt. under the Motor Vehicles Act, 1988 and other guidelines issued from time to time. The packaging and labeling should be based on the composition and hazardous constituent of the waste, however, all Hazardous Waste containers should be provided with a general label.
21. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card (as given in the guidelines for management and handling of hazardous wastes) duly filled by the Hazardous Waste generator.
22. No Hazardous Wastes should be mixed with any other wastes or should be discharged to a common, other internal, external sewerage or other drainage system without prior approval of APPCB.
23. If MS/HDPE bags or drums are used for storing Hazardous Wastes, these drums/bags should be ensured that they are perfectly sealed.
24. The project should comply with the provisions of Batteries (Management & Handling) Rules, 2001.
25. The project should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate. The first sign board should provide information on specific conditions of CFO and Hazardous Waste Authorisation. The second sign board should display waste water, air emissions and solid waste generated within the factory premises.
26. The applicant should exhibit the Consent & HW Authorisation order of the Board in the factory premises at a prominent place for the information of the inspecting officers of the different departments.
27. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves the right and powers under Section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and its amendments thereof and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and its amendments thereof to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
28. The authorisation issued under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments thereof, should comply with the provision of the Environment (Protection) Act, 1986.
29. The facility may explore the possibility of tapping the solar energy for their energy requirements.
30. The applicant shall comply with the all the directions issued by the Board from time to time.
31. The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.

SCHEDULE - B

1. The industry should take steps to reduce water consumption to the extent possible and consumption should NOT exceed the quantities mentioned below:

S.No	Purpose	Quantity
1	Process & washings	1667 KLD
2	Boiler Feed & Cooling	1378 KLD
3	Domestic	800 KLD
Total:		3845 KLD

2. The effluent discharged should comply with the tolerance limits mentioned below:

Outlet	Parameter	Limiting Standards (mg/l except for pH)
1 to 3	PH	5.50 - 9.00
	Suspended Solids (at 103 - 105° C)	200
	Bio Chemical Oxygen Demand (BOD)	100
	Oil and Grease	10

3. The industry should file the water cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry should remit water cess as per the assessment orders as and when issued by Board.

4. The emissions should not contain constituents in excess of the prescribed limits mentioned below

Chimney No.	Parameter	Emission Standards
1 to 11	SPM	50 mg/Nm ³
12 to 16	SPM	100 mg/Nm ³
17 to 25	SPM	50 mg/Nm ³
26 to 28	SPM	100 mg/Nm ³

5. The industry should comply with emission limits for DG sets upto 800 KW/hrs per the Notification G.S.R. 523 (E) dated 01/07/2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R. 448(E) dated 12/07/2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets more than 800 KW should comply with emission limits as per the Notification G.S.R. 452(E) dated 09/07/2002 at serial no. 95 under the Environment (Protection) Act, 1986.

6. The industry should comply with ambient air quality standards of PM₁₀ (Particulate Matter size less than 10 µm) - 100 µg/m³, PM_{2.5} (Particulate Matter size less than 2.5 µm) - 60 µg/m³, SO₂ - 80 µg/m³, NO_x - 80 µg/m³ outside the factory premises at the periphery of the industry.
Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No. S.290/S.29/2009 dated 18/11/2009.
Noise Levels: Day time (6 AM to 10 PM) - 75 dB(A)
Night time (10 PM to 6 AM) - 70 dB(A)

5. The industry should not increase the capacity beyond the permitted capacity mentioned in the order without obtaining CFE & CRD of the Board.

6. The industry should maintain interlocking facility between APC equipment and raw material feeding system to regulate the feeding of raw material into the Kiln so that feeding of raw materials would stop automatically in case the air pollution control equipment fails.

7. The industry shall ensure the online continuous monitoring systems provided by the industry are properly programmed and linked to the PLC so as to indicate representative values particularly during the failure or non operation of the pollution control systems.

8. The industry shall implement the fly ash notification, 2008 and its amendments in full.

9. The industry shall store fly ash in silos and shall be conveyed through pneumatic conveyor for utilization in cement manufacture.

10. The industry should furnish details of fly ash brought from the nearby Coal based Thermal Plants and quantity of fly ash consumed per ton of product inventory of fly ash at on-site along with details of measures implemented to mitigate fugitive emissions at various transfers to R.O. Kurnool on every three months.

11. The industry shall utilize bottom ash to its maximum extent possible for brick manufacturing etc.

12. Air cooled condenser shall be maintained to reduce fresh water consumption and shall implement water conservation methods wherever possible.

13. All the treated waste water shall be recycled and reused in the process and/or for dust suppression, green belt development and under no circumstances waste water shall be discharged out of the factory premises. The Zero discharge shall be maintained.

14. The industry shall construct storages sheds for coal. Dry ash collection system shall be implemented.

15. The industry shall maintain the mechanized dust suppression system (MDSS) to control fugitive emissions effectively to control the dust emissions. The mechanized dust suppression system should be operated continuously to ensure compliance of AAQ standards consistently.

16. The industry shall take up plantation in the remaining 5 ha of the ear test to achieve 93% of green belt. Failing which the bank guarantee of Rs. 3 Lakhs submitted by the industry towards development of green belt will be forfeited.

17. The industry shall comply with all the conditions stipulated in the Environmental Clearance dt. 08.10.2008 & 18.07.2011.

18. The industry shall comply all the conditions stipulated in the CFE orders dt. 07.09.2006, 06.12.2010, 29.02.2012.

19. The industry shall provide rain water harvesting structures on the available up-stream portion of the plant to recharge ground water.
20. The applicant should submit Environment statement in Form V before 30th September every year as per Rule No. 14 of E(P) Rules, 1986 & amendments.

SCHEDULE - C

(See Rule 5(4))

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

The following acceptance criteria shall be followed for utilization of Hazardous waste in the rotary kiln.

Specification of HW for use as Alternative raw material

Parameter	Limit
Volatile Organic Hydrocarbon	<5000 ppm
Total Organic Carbon (TOC)	<1000 ppm
CaO+SiO ₂ +Al ₂ O ₃ +Fe ₂ O ₃ +SO ₂ (in Ash)	>80%
Chloride	<1.5%
Sulphur	<1.5%
PCB/PCT (ppm)	<50
Heavy Metals (ppm)	
Hg	<10
Cd+Pb	<100
As+Co+Ni+Se+Te+Sb+Cr+Sn+Pb+V	<10,000

Specification of HW to use as use of energy recovery

Parameter	Limit
Calorific Value (as received basis)	>2500 K Cal/Kg
Ash	
Liquid	<5%
Solid	<20%
Chloride	<1.5%
Halogen (F+Br+I)	<1.0%
Sulphur	<1.5%
PCB/PCT (ppm)	<50
Heavy Metals (ppm)	
Hg	<10
Cd+Pb	<100
As+Co+Ni+Se+Te+Sb+Cr+Sn+Pb+V	<10,000
pH	4 to 12
Viscosity (cSt) for liquid	<100
Flash Point (Deg. Centigrade) (for liquid)	>60

2. The industry shall feed the liquids only through main burners in the high combustion zone. The liquid feed system to the pre-calcinator shall be disconnected. The operations with respect to semi-liquid feed system are carried out in closed system only. Only diesel is used for heating requirements of the system.
3. Only the permitted alternate fuels should be used for the co-processing.
4. The industry should follow the guidelines for labelling, transportation, storage and disposal of hazardous wastes.
5. The wastes of high calorific value have to be always fed into the high temperature combustion zones of the kiln system. Such waste containing stable toxic components should be fed to the main burner to ensure complete combustion in the high temperature and long retention time.
6. The industry shall take all safety measures to prevent accidents while handling the hazardous wastes.
7. The industry shall take all precautionary measures to prevent odour, nuisance and spillages while handling the hazardous wastes.
8. The industry shall provide dyke walls for storage tanks, areas to contain spillages.
9. The industry shall follow the guidelines of CPCB on co-processing of hazardous wastes in the cement plants and submit compliance to the RC/Kurnool within a month.
10. Monthly emission monitoring reports should be submitted to all the critical parameters in the CPCB guidelines for co-processing of hazardous wastes.
11. The industry should comply with all other conditions stipulated in the CFE order No. PCB/HWM/ATP-05/2012-389, dated 29.02.2012.

12. The industry should give top priority for waste minimization and cleaner production practices.
13. The industry should not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.
14. The industry should store Used Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal.
15. The industry should not dispose Waste oils to the traders and the same should be disposed to the authorized Reprocessors/ Recyclers.
16. The industry should dispose Used Lead Acid Batteries to the manufacturers / dealers on buyback basis.
17. The industry should take necessary practical steps for prevention of oil spillages and carry over of oil from the premises.
18. The industry should maintain a copy manifest system for transportation of waste generated and a copy should be submitted to Board Office and concerned Regional Office.
19. The industry should maintain good house keeping & maintain proper records for Hazardous Wastes stated in Authorisation.
20. The industry should maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e. quantity of incinerable waste, and deposal waste, recyclable waste etc. and file annual returns in Form-4 as per Rule (22) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.
21. The industry should dispose of e-waste to the authorized recyclers only.
22. The unit should submit the condition wise compliance report of the conditions stipulated in Schedule B and Schedule C of this Order on half yearly basis to Board Office, Hyderabad and concerned Regional Office.

Sd/
MEMBER SECRETARY

To
M/s. Ultra Tech Cement Ltd.,
Bhogasamudram (V), Tadipatri (M),
Anantapur District - 515 415.

//T.C.E.P.O//

10/11/14

JOINT CHIEF ENVIRONMENTAL ENGINEER
UH-IV



ANDHRA PRADESH POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN, A-3, INDUSTRIAL ESTATE,
SANATHNAGAR, HYDERABAD - 500 018.

Phone: 040-23887500
Fax: 040- 23815631
Grams : Kalusya Nivaran
Website : appcb.ap.nic.in

BY REG. POST WITH ACK DUE

Order No: APPCB/KNL/ATP/184/CFO/HO/2015-

Date: 24.11.2015

- Sub: APPCB - CFO - M/s. Ultra Tech Cement Ltd., Bhogasamudram(V), Tadipatri(M), Anantapur District - Amendment to combined CFO & HWA order - Under Section 25/26 of the Water (Prevention & Control of Pollution), Act, 1974 Amendment thereof - issued - Reg.
- Ref: 1. EC order No. SEIAA/AP/ANT -26/201-1113 dt.16.07.2011
2. Consent Order No: APPCB/KNL/ATP/184/HO/CFO/2014-732 dt. 08.12.2014.
3. Industry's representation dt.12.10.2015 received at Board office on 16.11.2015.

DESPATCHED
ON 24.11.15

In the reference 1st cited, M/s. Ultra Tech Cement Ltd., obtained EC from SEIAA, AP, MoE&F, Govt for expansion of Thermal Power Plant from 50 to 100 MW to use coal of 1.0 million TPA as fuel with Sulphur content less than 0.5 % in Indian coal (S < 0.50%) & less than 0.8 % in Imported Coal (S < 0.8 %).

The Board in the reference 2nd cited, issued combined CFO & HWA order to M/s. Ultra Tech Cement Ltd., Bhogasamudram(V), Tadipatri(M), Anantapur District with valid upto 30.09.2016. In the order it was mentioned the Sulphur content in the coal used as fuel shall not exceed 0.6%.

In the reference 3rd cited, the industry requested the Board to issue an amendment to the existing CFO order to permit to use the Sulphur content in the coal as 1.5% max, stating that the industry had submitted the information on Sulphur content as less than 0.6 % as per the available coal when applied for CFE in 2006 for 2 x 25 MW Thermal Power Plant. Now they have been receiving indigenous / imported coal having Sulphur content 1.5% max.

The Board after careful examination of the industry's representation dated 16.11.2015, and EC order dt.16.07.2011 obtained by the Industry, hereby issues an amendment to the CFO & HWA order dt.08.12.2015 under section 25/26 of the Water (Prevention & Control of Pollution), Act, 1974 and Amendments thereof as below:

"The Sulphur content in the coal used as fuel shall not exceed 0.6%" mentioned in the CFO & HWA order dt. 08.12.2014 shall be substituted with the following:

"The industry shall use coal of 1.0 million TPA as fuel with Sulphur content less than 0.5 % in Indian coal (S < 0.50%) & less than 0.8 % in Imported Coal (S < 0.8 %) for 100 MW Thermal Power Plant".

All other conditions stipulated in Schedule - A, B & C of the earlier combined CFO & HWA order issued in reference 2nd cited and the validity period i.e., 30.09.2016 shall remain the same.

Sd/-
MEMBER SECRETARY

To
M/s. Ultra Tech Cement Ltd.,
Bhogasamudram(V),
Tadipatri(M), Anantapur District - 515 413.

Copy to:

1. The JCEE, Zonal Office, Kurnool for information.
2. The E.E., R.O, Kurnool for information and necessary action.

//T.C.F.B.O//

K. S. S. S. S.
25/11/15
JOINT CHIEF ENVIRONMENTAL ENGINEER
Unit Head - IV

ok



ANDHRA PRADESH POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN, A-3, INDUSTRIAL ESTATE,
SANATHNAGAR, HYDERABAD - 500 018.

Phone: 040-23887500
Fax: 040-23815631
Grams : Kalusya
Nivarana

BY REG. POST WITH ACK DUE

Order No: APPCB/KNL/ATP/184/CFO/HO/2015-

Date: 17.12.2015

Sub: APPCB - CFO - M/s. Ultra Tech Cement Ltd., Bhogasamudram(V), Tadipatri(M), Anantapur District - Amendment to combined CFO & HWA order - issued - Reg.

- Ref: 1. Consent Order No: APPCB/KNL/ATP/184/HO/CFO/2014-732 dt. 08.12.2014.
2. CPCB Lr. dt.13.08.2010 of permission issued to M/s. Ultratech Cement Ltd., Bhogasamudram, Andhra Pradesh Cement Works, Anantapur Dist. Andhra Pradesh for co-processing of hazardous waste in cement kiln.
3. CPCB Lr. dt.30.03.2015 & 28.09.2015 of regular permission issued to M/s. Ultratech Cement Ltd., Andhra Pradesh Cement Works, Andhra Pradesh for co-processing of hazardous waste.
4. Industry's request lr. dt.12.10.2015 for issue of amendment to existing CFO & HWA

NEW P
18/12/15

The Board in the reference 1st cited, issued combined CFO & HWA order to M/s. Ultra Tech Cement Ltd., Bhogasamudram(V), Tadipatri(M), Anantapur District with validity upto 30.09.2016. In the order, it was permitted to procure certain high calorific value hazardous wastes from the authorized industries for co-processing in the cement kiln.

In the reference 4th cited, the industry informed that they have obtained regular permission from CPCB, New Delhi for co-incineration the following hazardous wastes in the cement kiln and requested the Board to issue an amendment to the existing CFO & HWA order to include the hazardous wastes.

SL No.	Industry	Waste Material Name
1.	Soft Drink Industry	ETP Bio-solid waste WTP Sludge Spent Carbon
2.	Auto mobile industry.	Paint sludge Phosphate sludge Grinding dust Oily rags ETP sludge
3.	Textile Industry	ETP sludge
4.	Refinery industry.	Spent catalyst Refinery sludge
5.	Pharmaceutical Industry	Spent Organic Solvent (liquid & solid) Process / distillation residue Date expired, discarded & off specification Drugs medicines
6.	Agro chemical / Pesticide Industry	Process wastes & Residues Chemical ETP Sludge
7.	Polymer Industry	Waste / residue (Sludge form process) Filters & Filter Materials
8.	Diesel Loco Sheds	Dismantled Lube / Fuel oil filter

The Board after careful examination of the industry's request and the permissions obtained from CPCB vide Lr. dt.13.08.2010, 30.03.2015 & 28.09.2015 for co-incineration of hazardous wastes, hereby issues an amendment to the existing CFO & HWA order issued vide reference 1st cited as following:

The hazardous wastes authorization of the CFO & HWA order dt.18.12.2014 mentioned at Sl. No.III shall be read as follows:

8	Pharmaceuticals	Spent Carbon	10000 MT
		ETP sludge	
		Spent Catalyst	
		Waste oil	
		Spent Organic Solvent (Liquid & Solid)	
		Process / Distillation Residue	
		Date expired, Discarded & off specification drugs & medicines	
Any other Wastes			
9	Cement industry	Furnace oil sludge	120 KL
		Waste oil	
		Any other Wastes	
10	Refined oil industry	ETP sludge	5000 MT
		Spent catalyst	
		Refinery sludge	
		Any other Wastes	
11	Agrochemical / Pesticides	ETP sludge	3000 MT
		Still bottom residue	
		Waste oil	
		Spent solvent	
		Process wastes & Residues	
		Chemical ETP / Sludge	
Any other wastes			
12	Polymer industry	Filters & Filter Materials	30000 T
		Waste / residue (Sludge from process)	
13	Diesel Loco sheds	Dismantled Lube / Fuel oil filter	30000 T
14	Tyres	Waste tyre & Waste rubber / chips	10000 MT
15	Local sunflower fields	Waste steams / wood	5000 MT
16	Surrounding Municipalities	Municipal wastes	5000 MT
17	Rice Mills	Rice Husk	5000 MT
18	Oil mills	Groundnut Husk/ Coconut husk	5000 MT

All other conditions stipulated in Schedule - A, B & C of the combined CFO & HWA order issued in reference 1st cited and the validity period i.e., 30.09.2016 shall remain the same.

Sd/-
MEMBER SECRETARY

To
M/s. Ultra Tech Cement Ltd.,
Bhogasamudram(V),
Tadipatri(M), Anantapur District - 515 413.

Copy to:

1. The JCEE, Zonal Office, Kurnool for information.
2. The E.E., R.O, Kurnool for information and necessary action.

//T.C.F.B.O//

W. Das
17/12/15
JOINT CHIEF ENVIRONMENTAL ENGINEER
(UH - IV)

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)

Report No. Y15A07/APPCB/ZL/KNL/AIR/2015-

Date: 08/04/2015

I hereby certify that I, B.Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, monitored a stack sample on the day of 07/04/2015 a sample of stack attached to Raw mill and Kiln (unit-I) of M/s. Ultratech Cement Ltd, Rhodasamudram (V), Tadipatri (M), Ananthapur district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 08/04/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	29	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT

Remarks:

1. The industry is manufacturing clinker & cement.
2. During monitoring line-I units (8000 TPD) are in operation and Line-II units are not in operation.
3. RABH is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to raw mill and kiln is 141 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

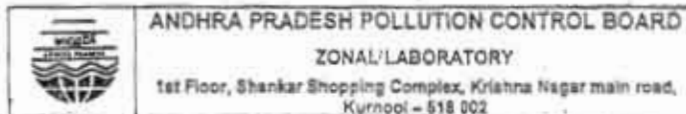
Signed this: 08/04/2015

Address:

B.Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory, Kurnool.
BOARD ANALYST

To

The Senior Environmental Engineer,
APPCB, Task Force,
Kurnool.



ANDHRA PRADESH POLLUTION CONTROL BOARD
 ZONAL LABORATORY
 1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
 Kurnool - 518 002

REPORT BY THE STATE BOARD ANALYST
 Form IV
 (See rule 14)

Report No. Y18A08/APPCB/ZL/KN/AIR/2015-

Date: 08/04/2015

I hereby certify that I, B.Nagi Reddy, State Board Analyst duly appointed under sub-section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, monitored a stack sample on the day of 07/04/2015 a sample of stack attached to Coal Mill (unit-I) of M/s. Ultratech Cement Ltd, Rhoosamudram (V), Tadipatri (M), Ananthapur district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 08/04/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS-11225 (Part-1)1985	36	60

The condition of the seals, fastening and container on receipt was as follows:

INTACT

Remarks:

1. The industry is manufacturing clinker & cement.
2. During monitoring line-I units (8000 TPD) are in operation and Line-II units are not in operation.
3. Bag house is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to coal mill is 75 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 08/04/2015

Address:
 B.Nagi Reddy,
 Senior Environmental Scientist,
 A.P. Pollution Control Board,
 Zonal Laboratory, Kurnool.

BOARD ANALYST

To
 The Senior Environmental Engineer,
 APPCB, Task Force,
 Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)**Report No. Y15A09/APPCB/ZL/KNL/AIR/2015-****Date: 08/04/2015**

I hereby certify that I, B.Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, monitored a stack sample on the day of 07/04/2015 a sample of stack attached to Cement Mill (unit-I) of M/s. Ultratech Cement Ltd, Bhossamudram IV, Tadipatri (N), Ananthapur district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample, on 08/04/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1986	31	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry is manufacturing clinker & cement.
2. During monitoring line-I units (8000 TPD) are in operation and Line-II units are not in operation.
3. Bag house is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to cement mill is 21 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 08/04/2015

Address:B.Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory, Kurnool.
BOARD ANALYST**To**The Senior Environmental Engineer,
APPCB, Task Force,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)

Report No. Y15A10/APPCB/ZL/KNL/AIR/2015

Date: 08/04/2015

I hereby certify that I, B.Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, monitored a stack sample on the day of 07/04/2015 a sample of stack attached to Cooler (unit-I) of M/s. Ultratech Cement Ltd. Bhogasamudram (V), Tadipatri (M), Ananthapur district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 08/04/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	38	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry is manufacturing clinker & cement.
2. During monitoring line-I units (8000 TPD) are in operation and Line-II units are not in operation.
3. ESP is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to cooler is 50 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 08/04/2015

Address:B.Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory, Kurnool.
BOARD ANALYST**To**The Senior Environmental Engineer,
APPCB, Task Force,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**

Form IV

(See rule 14)

Report No. Y18QGT17/APPCB/ZI/KNI/AIR/2015-Date: 16/10/2015

I hereby certify that I, B.Nagi Reddy, State Board Analyst duly appointed under sub-section (2) of section 28 of the Air (Prevention and Control of Pollution) Act, 1981, received a sample on the day of 15/10/2015 (monitored on 14/10/2015) a sample of stack attached to Raw mill and Kiln (phase-II) of M/s. Ultratech Cement Ltd. Bhocassamudram (V), Tadipatri (M), Ananthapur district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 15/10/2015 and declared the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1988	14	80

The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry is manufacturing clinker & cement.
2. During monitoring phase-II units (12550 TPD) are in operation and phase-I units are not in operation.
3. Bag House is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to raw mill and kiln is 141.5 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 16/10/2015

Address:B.Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory, Kurnool.
BOARD ANALYST**To**The Joint Chief Environmental Engineer,
APPCB, Zonal Office,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**

Form IV

(See rule 14)

Report No. Y16DCT19/APPCB/ZL/KNL/AIR/2015-

Date: 16/10/2015

I hereby certify that I, B.Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a sample on the day of 15/10/2015 (monitored on 14/10/2015) a sample of stack attached to Cement Mill-3 (phase-II) of M/s. Ultratech Cement Ltd. Bhogasamudram (V), Tadipatri (M), Ananthapur district for analysis. The sample was in a condition fit for analysis, reported below.

I further certify that I have analysed the aforementioned sample on 16/10/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	18	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry is manufacturing clinker & cement.
2. During monitoring phase-II units (12550 TPD) are in operation and phase-I units are not in operation.
3. Bag filter is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to cement mill-3 is 60 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 16/10/2015

Address:B.Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory, Kurnool.
BOARD ANALYST**To**The Joint Chief Environmental Engineer,
APPCB, Zonal Office,
Kurnool.



ANDHRA PRADESH POLLUTION CONTROL BOARD
ZONAL LABORATORY
1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002

REPORT BY THE STATE BOARD ANALYST
Form IV
(See rule 14)

Report No. Y15OCT19/APPCB/ZL/KOL/AIR/2015.

Date: 16/10/2015

I hereby certify that I, B.Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a sample on the day of 15/10/2015 (monitored on 15/10/2015) a sample of stack attached to Coal Mill (phase-II) of M/s. Ultratech Cement Ltd. Bhogasamudram (V), Tadipatri (M), Ananthapur district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/10/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	20	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT

Remarks:

1. The industry is manufacturing clinker & cement.
2. During monitoring phase-II units (12550 TPD) are in operation and phase-I units are not in operation.
3. Bag filter is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to coal mill is 75 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 16/10/2015

Address:
B.Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory, Kurnool.


BOARD ANALYST

To
The Joint Chief Environmental Engineer,
APPCB, Zonal Office,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)**Report No. Y15OCT20/APPCB/ZLKNL/AIR/2015-****Date: 16/10/2015**

I hereby certify that I, B.Nagi Reddy, State Board Analyst duly appointed under sub-section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a sample on the day of 16/10/2015 (monitored on 16/10/2015) a sample of stack attached to 2 X 116 TPH Coal Fired Boilers of 60 MW captive Thermal Power Plant (TPP-1) of M/s. Ultratech Cement Ltd. Bhogasamudram (V), Tadipatri (M), Anantapur district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/10/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	66	100

The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry is a captive power plant of capacity 60 MW.
2. ESP is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
3. The height of the stack attached to Boiler is 110 meters.
4. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 16/10/2015

Address:B.Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory, Kurnool.
BOARD ANALYST**To**The Joint Chief Environmental Engineer,
APPCB, Zonal Office,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)Report No. Y15OCT21/APPCB/ZL/KNL/AIR/2015:Date: 18/10/2015

I hereby certify that I, B.Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a sample on the day of 15/10/2015 (monitored on 15/10/2015) a sample of stack attached to 2 X 115 TPH Coal Fired Boilers of 50 MW captive Thermal Power Plant (TPP-2) of M/s. Ultratech Cement Ltd, Bhogasamudram (V), Tadipatri (M), Ananthapur district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/10/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1/1985)	58	100

The condition of the seals, fastening and container on receipt was as follows:

INTACT

Remarks:

1. The industry is a captive power plant of capacity 50 MW.
2. ESP is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
3. The height of the stack attached to Boiler is 110 meters.
4. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 18/10/2015

Address:

B.Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory, Kurnool.

BOARD ANALYST**To**

The Joint Chief Environmental Engineer,
APPCB, Zonal Office,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT**

Sample Reg. No.:	: Report No. Y15OCT22/APPCB/ZL/KN/AIR/2015-	
Sampling Location	: M/s. Ultratech Cement Ltd, Bhogassamudram (V), Tadipatri (M), Ananthapur district	
Sampling point	: Ambient air quality monitoring conducted west side of the Industry near CAQMS-1.	
Sample height, from ground level	: 1 meter	
Sampling site is in up wind or downwind of the source	: Up wind	
Purpose of sampling	: Legal	
Sample collected by	: JSO, Zonal Laboratory, Kurnool	
Sampling Date	: 14/10/2015 & 15/10/2015	
Sample Submit date	: 16/10/2015	
Sample analysed on	: 16/10/2015	
Date of issue of report	: 16/10/2015	
Parameters	24 hrs. average values in $\mu\text{g}/\text{m}^3$	Emission Standards in $\mu\text{g}/\text{m}^3$
Particulate Matter (PM10)	33	100

Observations of monitoring Officer:

1. The Industry is manufacturing clinker & cement.
2. During monitoring Phase-II units (12500 TPD) are in operation and phase-I units are not in operation.
3. The AAQ monitoring was carried out near CAAQMS station on up wind direction on west side.
4. Bag House, ESP, Bag filters are provided as air pollution control equipments and were working during monitoring.
5. Heavy vehicular movement was observed near the station.


BOARD ANALYST

+++ End of the Report +++



ANDHRA PRADESH POLLUTION CONTROL BOARD
ZONAL LABORATORY
1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002

AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT


Sample Reg. No. :	Report No. Y15OCT23/APPCB/ZL/KUN/AIR/2015-	
Sampling Location :	M/s. Ultratech Cement Ltd, Bhoggsamudram (V), Tadipatri (M), Ananthapur district	
Sampling point :	Ambient air quality monitoring conducted near hospital in the premises of M/s Ultratech Cement Ltd.	
Sample height from ground level :	1 meter	
Sampling site is in up wind or downwind of the source :	down wind	
Purpose of sampling :	Legal	
Sample collected by :	JBO, Zonal Laboratory, Kurnool	
Sampling Date :	14/10/2015 & 15/10/2015	
Sample Submit date :	15/10/2015	
Sample analysed on :	15/10/2015	
Date of issue of report :	18/10/2015	
Parameters	24 hrs. average values in $\mu\text{g}/\text{m}^3$	Emission Standards in $\mu\text{g}/\text{m}^3$
Particulate Matter (PM10)	75	100

Observations of monitoring Officer

1. The industry is manufacturing of linker & cement.
2. During monitoring Phase-II units (12550 TPD) are in operation and phase-I units are not in operation.
3. The AAQ monitoring was carried out near hospital in the premises.
4. Bag house, ESP, Bag filters are provided as air pollution control equipments and were working during monitoring.

Ravi Babu
BOARD ANALYST

+++ End of the Report +++

	ANDHRA PRADESH POLLUTION CONTROL BOARD
	ZONAL LABORATORY
	1st Floor, Shankar Shopping Complex, Krishna Nagar main road, Kurnool - 518 002

AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Sample Reg. No.	: Report No. Y15A11/APPCB/ZL/XNL/AIR/2015-	
Sampling Location	: M/s. Ultratech Cement Ltd, Bhogasamudram (V), Tadipatri (M), Ananthapur district	
Sampling point	: Ambient air quality monitoring conducted near online AAQ station-I on west direction.	
Sample height from ground level	: 2 meter	
Sampling site is in up wind or downwind of the source	: Down wind	
Purpose of sampling	: Compliance monitoring	
Sample collected by	: SES, Zonal Laboratory, Kurnool	
Sampling Date	: 07/04/2015	
Sample Submit date	: 08/04/2015	
Sample analysed on	: 08/04/2015	
Date of issue of report	: 08/04/2015	
Parameters	24 hrs. average values in µg/m³	Emission Standards in µg/m³
Particulate Matter (PM10)	115	100

Observations of monitoring Officer

1. The industry is manufacturing clinker & cement.
2. During monitoring line-I units (8000 TPD) are in operation and Line-II units are not in operation.
3. The AAQ monitoring was carried out near AAQ station-I on down wind direction on west side.
4. RABH, ESP, Bag filters are provided as air pollution control equipments and were working during monitoring.
5. Water sprinkling was carried out on roads with water tankers.


 BOARD ANALYST

+++ End of the Report +++



ANDHRA PRADESH POLLUTION CONTROL BOARD
ZONAL LABORATORY
1st Floor, Shenkar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002

AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Sample Reg. No.	: Report No.Y15A11/APP/PCB/ZL/KNL/AIR/2015-	
Sampling Location	: M/s. Ultratech Cement Ltd, Bhogasamudram (V), Tadipatri (M), Ananthapur district	
Sampling point	: Ambient air quality monitoring conducted near online AAQ station-II on east side.	
Sample height from ground level	: 5 meter	
Sampling site is in up wind or downwind of the source	: up wind	
Purpose of sampling	: Compliance monitoring	
Sample collected by	: SES, Zonal Laboratory, Kurnool	
Sampling Date	: 07/04/2015	
Sample Submit date	: 08/04/2015	
Sample analysed on	: 08/04/2015	
Date of issue of report	: 08/04/2015	
Parameters	24 hrs. average values in $\mu\text{g}/\text{m}^3$	Emission Standards in $\mu\text{g}/\text{m}^3$
Particulate Matter (PM10)	83	100

Observations of monitoring Officer:

1. The industry is manufacturing clinker & cement.
2. During monitoring line-I units (8000 TPD) are in operation and Line-II units are not in operation.
3. The AAQ monitoring was carried out near AAQ station-II on up wind direction on east side.
4. RABH, ESP, Bag filters are provided as air pollution control equipments and were working during monitoring.
5. Water sprinkling was carried out on roads with water tankers.

P. V. Reddy
BOARD ANALYST

+++ End of the Report +++

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT**

Sample Reg. No.	: Report No.Y16A13/APPCB/ZL/KONL/A/R/2015-	
Sampling Location	: Ws. Ultratech Cement Ltd, Bhogasamudram (V), Tadipatri (M), Ananthapur district	
Sampling point	: Ambient air quality monitoring conducted inside town ship on north-west direction	
Sample height from ground level	: 10 meter	
Sampling site is in up wind or downwind of the source	: cross wind	
Purpose of sampling	: Compliance monitoring	
Sample collected by	: SES, Zonal Laboratory, Kurnool	
Sampling Date	: 07/04/2015	
Sample Submit date	: 08/04/2015	
Sample analysed on	: 08/04/2015	
Date of issue of report	: 08/04/2015	
Parameters	24 hrs. average values in $\mu\text{g}/\text{m}^3$	Emission Standards in $\mu\text{g}/\text{m}^3$
Particulate Matter (PM10)	85	100

Observations of monitoring Officer:

1. The industry is manufacturing clinker & cement.
2. During monitoring line-I units (8000 TPD) are in operation and Line-II units are not in operation.
3. Ambient air quality monitoring conducted inside town ship on north-west direction.
4. RABH, ESP, Bag filters are provided as air pollution control equipments and were working during monitoring.
5. Roads were cleaned with sweeping machines.

Handwritten signature
BOARD ANALYST

*** End of the Report ***

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT**

Sample Reg. No.	Report No. Y16A11/APP/PCB/ZLKNL/AIR/2015-	
Sampling Location	M/s. Ultratech Cement Ltd, Bhogasamudram (V), Tadipatri (M), Ananthapur district	
Sampling point	Ambient air quality monitoring conducted at top of the house of sri Mahaboob Basha, Ankireddypally village, Kurnool district.	
Sample height from ground level	5 meter	
Sampling site is in up wind or downwind of the source	Up wind	
Purpose of sampling	Compliance monitoring	
Sample collected by	SES, Zonal Laboratory, Kurnool	
Sampling Date	07/04/2015	
Sample Submit date	08/04/2015	
Sample analysed on	08/04/2015	
Date of issue of report	08/04/2015	
Parameters	24 hrs. average values in $\mu\text{g}/\text{m}^3$	Emission Standards in $\mu\text{g}/\text{m}^3$
Particulate Matter (PM10)	72	100

Observations of monitoring Officer:

1. The industry is manufacturing clinker & cement.
2. During monitoring line-I units (8000 TPD) are in operation and Line-II units are not in operation.
3. Ambient air quality monitoring conducted at top of the house of sri Mahaboob Basha, Ankireddypally village located at about 5 km aerial distance from the factory.

P. S. S. S.
BOARD ANALYST

*** End of the Report ***

**M/s. Bharathi Cement
Corporation Ltd.,
Kamalapuram (M), Kadapa
District.**



B-33014/2012/PCI-II/ 2773

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
(पर्यावरण एवं वन मंत्रालय, भारत सरकार)
(MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)
Date: 27.06.2013

To
M/s Bharathi Cement Corporation Pvt. Ltd.
Nallalingayapalli village,
Kamalapuram Mandal,
Kadapa Distt. - 516 289,
Andhra Pradesh.

*M/s Bharathi
A made a copy
C. P. Shetty
The Law*

Sub.: Regular permission for co-processing of liquid & Solid Organic Spent Solvent in cement kiln at M/s Bharathi Cement Corporation Pvt. Ltd., Kadapa, AP - Reg.

Ref: -Your letter No. BCCPL/CPCB/2013/01 dated 23.05.2013; and
-Andhra Pradesh PCB letter no. PCB/HWM/Gen-50/2012/714 dated 18/05/2012.

Sir,

In reference to above cited letters, permission is hereby accorded for co-processing of hazardous waste namely liquid & Solid Organic Spent Solvent in the cement kiln of M/s Bharathi Cement Corporation Pvt. Ltd., Kadapa, AP. under the Rule 11 of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, subject to compliance of various provisions of the Environment (Protection) Act, 1986 including the following:

1. The permission is valid only for co-processing of above specified hazardous waste. The waste characteristics should be similar to that for which trial runs have been conducted by CPCB/SPCB. The details are enclosed in Annexure. Prior permission has to be obtained for co-processing of any other hazardous waste.
2. The cement plant shall obtain the authorization from the concerned State Pollution Control Boards as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste.
3. For transportation of proposed hazardous wastes for co-processing in cement kiln, manifest system as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and guidelines of CPCB shall be followed.
4. The generator of hazardous waste shall obtain authorization from the State Pollution Control Board as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste in cement plant.

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

'Parivesh Bhawan', East Arjun Nagar, Delhi - 110032

दूरभाष/Tel. : 43102030, फैक्स/Fax : 22305793, 22307078, 22307079, 22301932, 22304948

ई-मेल/e-mail : cpcb@nic.in वेबसाइट/Website : www.cpcb.nic.in

5. The cement plant shall estimate the quantity of hazardous waste required to be co-processed. Cement industry shall provide adequate covered storage space for the hazardous waste in accordance with Hazardous Waste Rules and guidelines for storage of hazardous waste. The occupier shall also ensure that there is no leaching of any pollutant. The actual quantity of hazardous waste co-processed in each calendar year shall be reported to the CPCB and SPCB.
6. The cement plant shall ensure the compliance of the conditions stipulated in the consents issued under the Air Act, 1981 and Water Act, 1974 during the co-processing of hazardous waste.
7. The emission standards for particulate matter prescribed for cement kiln by the concerned State Pollution Control Board shall be applicable during co-processing in cement kiln also. For other pollutants i.e.; CO, TOC, NOx, HCl, SO₂, HF, total dioxins and furans, Cd + Tl + their compounds, Hg and its compounds, Sb + As + Pb + Co + Cr + Cu + Mn + Ni + V + their compounds, the emission values during co-processing shall not exceed the base line emissions i.e. during pre co-processing phase of trial run. The continuous measurement of particulate matter emission shall be carried out at co processing plant and the emission data shall be submitted to CPCB and the concerned SPCB/PCC. As per direction of CPCB monitoring of dioxins and furans including other parameters will be done by the cement plant.
8. The cement plant shall take the hazardous waste only from the authorized generator.
9. A log book of the waste co-processed shall be maintained including emission monitoring result during co-processing.
10. During co-processing of hazardous waste in cement kiln, the cement plant shall comply with all the requirements in accordance with the Public Liability Insurance Act, 1991 as amended.
11. Cement plant shall install continuous emission monitoring system and link it with CPCB network within 06 months.
12. In case of any violation in the conditions stipulated, the permission can be withdrawn at any time.
13. CPCB reserves the right to review/impose additional conditions or revoke, change or alter any of the terms and conditions.

Yours faithfully

S. S. Bala
(Dr. S. S. Bala)
AD & I/c PCI-II Div

Encl.: As above

Characteristics of Solid Organic Spent Solvent of Pharmaceutical Industries

The characteristics of Solid Organic Solvent of Pharma Industries is given below which is permitted for use @ 10.1 % (maximum) for co-processing in cement kiln.

Table 1.1 : Proximate & Ultimate Analysis of Solid Organic Spent Solvent of Pharmaceutical Industries

Sr. No.	Parameters	%
Proximate Analysis:		
1	Moisture Content	0.015
2	Ash Content	99.95
3	Volatile Matter	0.015
4	Fixed Carbon	0.02
Ultimate Analysis:		
1	Carbon	99.1
2	Hydrogen	0.80
3	Nitrogen	0.04
4	Sulphur	0.03
5	Oxygen	0.03
6	Gross Calorific Value	9970 k.cal/kg
7	Net calorific value	9927.7 kcal/kg
8	Chlorine	0.60
9	Fluorine	49.1 mg/Kg

Table 1.2 : Heavy Metals Contents in Solid Organic Spent Solvent of Pharmaceutical Industries

S.N.	Parameters	Concentration in mg/Kg
1.	Cadmium as Cd	<0.1
2.	Chromium as Cr	49.8
3.	Copper as Cu	0.2
4.	Iron as Fe	3.8
5.	Cobalt as Co	3.2
6.	Manganese as Mn	<0.1
7.	Nickel as Ni	5.9
8.	Lead as Pb	0.4
9.	Zinc as Zn	0.2
10.	Arsenic as As	<0.1

11.	Mercury as Hg	<0.1
12.	Selenium as Se	<0.1
13.	Antimony as Sb	<0.1
14.	Vanadium as V	0.3
15.	Thallium as Tl	<0.1
16.	Tin as Sn	<0.1

Table: 1.3 : VOCs, SVOCs, PCBs, PCPs and Organo-Chlorines in Solid Organic Spent Solvent of Pharmaceutical Industries

Sr. No.	Parameters	Concentration in $\mu\text{g}/\text{kg}$
1	VOCs	BDL
2	SVOCs	BDL
3	PCBs	BDL
4	Poly Chlorophenols (PCPs)	BDL
5	Organo-Chlorines	BDL

Characteristics of Liquid Organic Spent Solvent of Pharmaceutical Industries

The characteristics of Liquid Organic Solvent of Pharmaceutical Industries is given below which is permitted for use @ 10.44 % (maximum) for co-processing in cement kiln.

Table 1.1 : Proximate & Ultimate Analysis of Liquid Organic Spent Solvent of Pharmaceutical Industries

Sr. No.	Parameters	%
Proximate Analysis:		
1	Moisture Content	12.29
2	Ash Content	0.02
3	Volatile Matter	87.57
4	Fixed Carbon	0.12
Ultimate Analysis:		
1	Carbon	98.11
2	Hydrogen	0.01
3	Nitrogen	0.02
4	Sulphur	1.85
5	Oxygen	0.01
6	Calorific Value	9098 k.cal/kg
7	Chlorine	0.50%
8	Fluorine	88.3 mg/Kg

Table 1.2 : Heavy Metals Contents in Liquid Organic Spent Solvent of Pharmaceutical Industries

S.N.	Parameters	Concentration in mg/Kg
1.	Cadmium as Cd	<0.1
2.	Chromium as Cr	18.4
3.	Copper as Cu	0.1
4.	Iron as Fe	1.5
5.	Cobalt as Co	3.8
6.	Manganese as Mn	0.1
7.	Nickel as Ni	0.2
8.	Lead as Pb	0.5
9.	Zinc as Zn	0.5
10.	Arsenic as As	<0.1
11.	Mercury as Hg	<0.1
12.	Selenium as Se	<0.1
13.	Antimony as Sb	<0.1

14.	Vanadium as V	<0.1
15.	Thallium as Tl	<0.1
16.	Tin as Sn	<0.1

Table: 1.3 : VOCs, SVOCs, PCBs, PCPs and Organo-Chlorines in Liquid Organic Spent Solvent of Pharmaceutical Industries

Sr. No.	Parameters	Concentration in $\mu\text{g}/\text{kg}$
1	VOCs	BDL
2	SVOCs	BDL
3	PCBs	BDL
4	Poly Chlorophenols (PCPs)	BDL
5	Organo-Chlorines	BDL



BY REG. POST WITH ACK DUE
CONSENT & AUTHORISATION ORDER

Consent Order No : APPCB/KNL/TPT/105/HO/CFO/2015- 359

Date:22.08.2015

(Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof, Operation of the plant under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation / Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary, Movement) Rules 2008 & Amendments thereof.

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, under section 21 of Air (Prevention & Control of Pollution) Act 1981 and Authorisation under the provisions of HW (MH & TM) Rules (hereinafter referred to as 'the Acts', 'the Rules') and the rules and orders made thereunder to

M/s. Bharathi Cement Corporation Pvt. Ltd, (Cement Plant),
Nallingayapalli of Kamalapuram Mandal
Kadapa District-516289.
E-mail: blnmurthy@bharathicement.com

(hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of Emissions per hour from the chimneys as detailed below.

i) Out lets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1.	Domestic effluents Colony - 112 KLD Plant - 8 KLD	120 KLD	After treatment in STP shall be utilized for greenbelt development, fugitive dust suppression and in the Raw mill section.

ii) Emissions from chimneys:

Chimney No. /	Description of Chimney
	Existing: Line - 1
1.	Attached to Rotary Kiln & Raw Mill
2.	Attached to Coal mill
3.	Attached to Cement mill - I & II
4.	Attached to Clinker cooler
5.	Attached to Coal Crusher
	Expansion: Line - 2
6.	Attached to Rotary Kiln / Raw Mill
7.	Attached to Coal Mill
8.	Attached to Cement Mill 1 & 2
9.	Attached to Clinker Cooler

iii) HAZARDOUS WASTE AUTHORISATION (FORM - II) [See Rule 5 (4)]

M/s. Bharathi Cement Corporation Pvt Ltd, (Cement Plant), Nallingayapalli of Kamalapuram Mandal of Kadapa District is hereby granted an authorization to operate a facility for collection, reception, storage, transport and disposal of the following wastes with quantities as below:

HAZARDOUS WASTES WITH RECYCLING OPTION

SL.No.	Name of the Hazardous waste	Stream	Quantity of Hazardous waste	Disposal Option.
1.	Used oil (generated on site)	5.1 of Schedule-I	100 Ltrs/Year	Authorised recyclers / re-processors

HAZARDOUS WASTES WITH CO-PROCESSING OPTION:

Sl.No.	Name of the Hazardous waste	Stream	Quantity of Hazardous waste	Disposal Option.
1.	Spent solvents (Procured)	28.5 of Schedule-I	1400 TPM	Co-incineration in the rotary kilns.
2.	Organic residue (Procured)	28.1 of Schedule-I	1800 TPM	

This consent order is valid for manufacture the following products along with quantities only.

S.No	Products	Capacity
1.	Cement (OPC, PPC & PSC)*	5.0 MMTPA (Million Metric Tons per Annum)

*The cement production is inclusive of 3.3 MMTPA of clinker production.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorisation should be valid for a period ending with the 30th day of September 2020.

Sd/-
MEMBER SECRETARY

To
M/s. Bharathi Cement Corporation Pvt. Ltd, (Cement Plant),
Nallingayapalli of Kamalapuram Mandal
Kadapa District-516289.

//T.C.F.B.O//

W. S. S. S.
20/8/15

JOINT CHIEF ENVIRONMENTAL ENGINEER
UNIT HEAD - IV

SCHEDULE - A

- The applicant shall make applications through online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorization of the Board.
- The conditions stipulated in the Schedule - A of the earlier combined CFO & HWA order No. APPCB/KNL/TPT/105/HO/CFO/2010-2643 dt.09.03.2010 remain same. The applicant should ensure consistent compliance of each condition of Schedule-A.
- Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.
- The industry shall comply with the all the directions issued by the Board from time to time.
- The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.

SCHEDULE - B

- The effluent discharged should not contain constituents in excess of the tolerance limits mentioned below :

Outlet No.	Parameter No.	Limiting Standards
1.	pH	6.5 - 8.5
	Total Suspended Solids	200 mg/l
	Oil and Grease	10 mg/l
	BOD	100 mg/l

2. The industry shall take steps to reduce water consumption to the extent possible and consumption shall NOT exceed the quantities prescribed below:

S. NO.	Purpose	Quantity in KLD
1	Process	1030
2	Washings	
3	Industrial Cooling (makeup) / Humidification / water spraying	550
4	Domestic	160
	Total	1740

3. The industry should file the water Cess returns in Form-1 as required under Section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before 5th of every calendar month, showing the quantity of the water consumed in the previous month along with water meter readings. The industry should remit water cess as per the assessment orders as and when issued by the Board.

4. The emissions shall not contain constituents in excess of the prescribed limits mentioned below.

Chimney No.	Parameter	Emission standards
1 to 9	Particulate Matter	50 mg/Nm ³

5. The industry should comply with emission limits for DG Sets of capacity up to 800 KW as per the Notification G.S.R. 520(E), dated 01.07.2003 under Environment(Protection) Amendment Rules, 2003 and G.S.R. 448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets of capacity more than 800 KW should comply with emission limits as per the notification GSR 489(E), dated 09.07.2002 at Serial No.96, under the Environment(Protection) Act, 1986.

6. The industry should comply with ambient air quality standards of PM 10(Particulate Matter Size less than 10 um) - 100 ug/m³; PM 2.5 (Particulate Matter size less than 2.5 um) - 60 ug/m³; SO₂ - 80 ug/m³; NO_x-80ug/m³, outside the factory premises at the periphery of the industry.

Standards for the other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.E-29016/20/90/PCI-1, dated 18.11.2009.

Noise Levels: Day time: (6 AM to 10 PM) - 75 dB (A)

Night time: (10 PM to 6 AM) - 70 dB (A)

7. The industry shall not produce the cement beyond the permitted capacity as mentioned in this order, without obtaining prior CFE & CFO of the Board.
8. The industry shall not manufacture any product other than that mentioned in this consent order without CFE and CFO of the Board.
9. The industry shall ensure regular maintenance and operation of the on-line stack monitoring systems and CAAQM stations with tamper proof mechanism having facilities for online calibration.
10. The industry shall maintain interlocking system for air pollution control equipments provided with raw materials feeding system so that the feeding of raw materials would be stopped in case the air pollution control equipment fails.
11. The industry shall maintain and submit the records of daily operating hours of Idls, ESP and reasons for ESP tripping to R.O., Tirupati on monthly basis.
12. The industry shall maintain the records on the clinker production, utilized for cement production and stocks maintained at on site and should submit consolidated reports to the Regional Office of the Board.
13. The industry shall maintain the water sprinklers at all fugitive emissions sources and shall ensure compliance of Ambient Air Quality standards stipulated.
14. The industry shall control fugitive emissions during conveying and handling of various raw materials and finished products.
15. The industry shall develop greenbelt further in the remaining area of 48.3 Ha. to achieve 100 ha as stipulated in the CFE order.
16. The industry shall submit Environmental Statement in Form - V before 30th September every year as per rule No.14 of E (P) Rules, 1986 & amendments.
17. The conditions are without prejudices to the rights and contentions of this board in any Hon'ble Court of Law.

SCHEDULE - C
[see rule 5(4)]
[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

1. The industry shall give top priority for waste minimization and cleaner production practices.
2. The industry shall not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.
3. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal.
4. The industry shall not dispose Waste oils to the traders and the same shall be disposed to the authorized Reprocessors/ Recyclers.
5. The industry shall dispose Used Lead Acid Batteries to the manufacturers / dealers on buyback basis.
6. The industry shall take necessary practical steps for prevention of oil spillages and carry over of oil from the premises.
7. The industry shall maintain 6 copy manifest system for transportation of waste generated and a copy shall be submitted to Board Office and concerned Regional Office.
8. The industry shall maintain good house keeping & maintain proper records for Hazardous Wastes stated in Authorisation.
9. The industry shall maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.
10. The industry shall dispose of e-waste to the authorized recyclers only.
11. The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule A, B & C of this Order on half yearly basis to Board Office, Hyderabad and concerned Regional Office.

Sd/-
MEMBER SECRETARY

To
M/s. Bharathi Cement Corporation Pvt. Ltd, (Cement Plant),
Nallingayapalli of Kamalapuram Mandal
Kadapa District-516289.

//T.C.F.B.O//

Kulao
21/8/15
JOINT CHIEF ENVIRONMENTAL ENGINEER
UNIT HEAD - IV



ANDHRA PRADESH POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN, A-3, INDUSTRIAL ESTATE,
SANATHNAGAR, HYDERABAD - 500 018.

Phone: 040-23887500
Fax: 040-23815631
Grams : Kalusya
Nivarana

BY REG. POST WITH ACK DUE

Order No : APPCB/KNL/TPT/105/HO/CFO/2016-

Date: 02.01.2016

Sub: APPCB - CFO & HWA - M/s. Bharathi Cement Corporation Pvt. Ltd,
(Cement Plant), Nallingayapalli of Kamalapuram Mandal, Kadapa
District - Amendment to combined CFO & HWA order - issued - Reg.

- Ref: 1. Consent Order No: APPCB/KNL/TPT/105/HO/CFO/2015-3559
dt. 22.08.2015.
2. CPCB Lr. dt. 27.06.2013 & 28.12.2015 of permission issued to M/s.
Bharathi Cement Corporation Pvt. Ltd, (Cement Plant), Nallingayapalli
of Kamalapuram Mandal, Kadapa District, Andhra Pradesh for co-
processing of hazardous waste.
3. Industry's request Lr. Dt. 30.12.2015 for issue of amendment to
existing CFO & HWA.
4. RO TPT Lr No.k- 355/PCB/RO/TPT/2015 -1752 dt. 31.12.2015

P/ DESPATCHED
ON 21.01/16

The Board in the reference 1st cited, issued combined CFO & HWA order to M/s. Bharathi Cement Corporation Pvt. Ltd, (Cement Plant), Nallingayapalli of Kamalapuram Mandal, Kadapa District with validity upto 30.09.2020. In the order, it was permitted for co-processing of the hazardous wastes viz, Spent solvents and organic residue in the cement kiln.

In the reference 3rd cited, the industry informed that they have obtained regular permission from CPCB, New Delhi for co-processing the following hazardous wastes in the cement kiln and requested the Board to issue an amendment to the existing CFO & HWA order to include the hazardous wastes.

Sl No.	Name of the Hazardous waste	Stream	Disposal option
1.	ETP Sludge (Chemical industry)	34.3 of Schedule -I	Co- processing in the Kiln
2.	Paint Sludge (automobile industry)	21.1 of Schedule -I	
3.	Refinery sludge (petro chemical industry)	4.1 of Schedule -I	
4.	Spent Carbon (beverage industry)	34.2 of Schedule -I	
5.	ETP Bio-solid (beverage industry)	34.4 of Schedule -I	
6.	WTP Sludge (beverage industry)	34.2 of Schedule -I	
7.	Spent Clay (reprocessing of used oil industry)	4.5 of Schedule -I	
8.	Mixed waste (Pharmaceutical industry) (Distillation residue, Residue waste, Spent catalyst, Spent Carbon, Date expired medicine & off specification drugs)	35.4 of Schedule -I 29.1 of Schedule -I 35.2 of Schedule -I 28.2 of Schedule -I 28.3 of Schedule -I	Co- processing in the Kiln
9.	Date expired/ discarded medicines (Pharmaceutical industry)	28.4 of Schedule -I	

In the reference 4th cited, the Environmental Engineer, Regional office, Tirupati recommended to consider the issue of amendment to the CFO order by incorporating the above mentioned hazardous wastes for co-processing in the kiln.

The Board after careful examination of the industry's request, RO report and the regular permission obtained from CPCB vide Lr. dt. 27.06.2013 & 28.12.2015 for co-processing of hazardous wastes, hereby issues an amendment to the existing CFO & HWA order issued vide reference 1st cited as following:

The hazardous wastes authorization of the CFO & HWA order dt.22.08.2015 mentioned at Sl. No.III shall be read as follows:-

iii) HAZARDOUS WASTE AUTHORISATION (FORM - II) [See Rule 5 (4)]

M/s. Bharathi Cement Corporation Pvt Ltd, (Cement Plant), Nallingayapalli of Kamalapuram Mandal, Kadapa District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

HAZARDOUS WASTES WITH RECYCLING OPTION

Sl.No.	Name of the Hazardous waste	Stream	Quantity of Hazardous waste	Disposal Option.
1.	Used oil (generated on site)	5.1 of Schedule-I	100 Ltrs/Year	Authorised recyclers / re-processors

HAZARDOUS WASTES WITH CO-PROCESSING OPTION:

Sl.No.	Name of the Hazardous waste	Stream	Quantity of Hazardous waste	Disposal Option.
1.	ETP Sludge (Chemical industry)	34.3 of Schedule -I	12000 TPA	Shall be used for Co-processing.
2.	Paint Sludge (automobile industry)	21.1 of Schedule -I	2400 TPA	
3.	Refinery sludge (petro chemical industry)	4.1 of Schedule -I	5000 TPA	
4.	Spent Carbon (beverage industry)	34.2 of Schedule -I	6000 TPA	
5.	ETP Bio-solid (beverage industry)	34.4 of Schedule -I	6000 TPA	
6.	WTP Sludge (beverage industry)	34.2 of Schedule -I	6000 TPA	
7.	Spent Clay (reprocessing of used oil industry)	4.5 of Schedule -I	2000 TPA	
8.	Mixed waste (from Pharmaceutical industry)		2000 TPA	
	(Distillation residue, Residue & waste,	36.4 of Schedule -I		
	Spent catalyst,	29.1 of Schedule -I		
	Spent Carbon,	35.2 of Schedule -I		
	Date expired medicine & off specification drugs)	28.2 of Schedule -I		
9.	Date expired/ discarded medicines (Pharmaceutical industry)	28.3 of Schedule -I	1000 TPA	
10.	Spent solvents (Procured)	28.4 of Schedule -I	1400 TPM	
11.	Organic residue (Procured)	28.5 of Schedule -I	1800 TPM	

The following additional conditions are stipulated in the SCHEDULE -C of CFO & HWA order dt. 22.08.2015 after condition No. 11

12. The cement plant shall take the above hazardous wastes only from the authorized generators.
13. The generator of hazardous waste shall obtain authorization from the State Pollution Control Board as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste in cement plant.
14. For transportation of proposed hazardous wastes for co-processing in cement kiln, manifest system as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and guidelines of CPCB shall be followed.

15. The industry shall follow the acceptance criteria for utilization of Hazardous waste in the rotary kiln as mentioned in the regular permission obtained from CPCB vide Lr. dt.27.06.2013 & 28.12.2015 for co-processing of hazardous wastes
16. The cement industry shall comply by the emission standards for co-processing which includes PM, SO₂, NO_x, HCl, HF, TOC, heavy metals and dioxins & furans as stipulated in the regular permissions obtained from CPCB vide Lr. dt.27.06.2013 & 28.12.2015.
17. The industry shall take all precautionary measures to prevent odour nuisance and spillages during the storage and handling of hazardous wastes.
18. The guidelines of CPCB on co-processing in cement plants shall be followed.
19. The cement industry shall comply all other conditions stipulated in the regular permissions obtained from CPCB vide Lr. dt.27.06.2013 & 28.12.2015 for co-processing of hazardous wastes.

All other conditions stipulated in Schedule - A, B & C of the combined CFO & HWA order issued in reference 1st cited including the validity period i.e., 30.09.2020 shall remain the same.

Sd/-
MEMBER SECRETARY

✓ To
M/s. Bharathi Cement Corporation Pvt. Ltd, (Cement Plant),
Nalligayapalli of Kamalapuram Mandal
Kadapa District-516289.

//T.C.F.B.O.//
R.W.P. 14/11/15
SENIOR ENVIRONMENTAL ENGINEER
UH - IV

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)Report No. Y15JA14/APPCB/ZL/KNL/AIR/2015-Date: 17/01/2015

I hereby certify that I, B. Nagl Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 09/01/2015 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Coal mill (Line - II) of M/s. Bharati Cement Corporation Pvt Ltd, Nallalingayapalli (V), Kamalapuram (M), Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 17/01/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration In mg/Nm ³	Emission Standard In mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	45	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry was manufacturing clinker & cement. During monitoring Line-II process units were in operation and Line-I process units were not in operation.
2. During stack monitoring the industry is co-processing the liquid and solid hazardous waste in cement kiln.
3. Bag house is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to coal mill is 56.1 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 17/01/2015

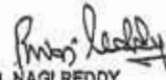
Address:B. Nagl Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.
BOARD ANALYST**To:**The Senior Environmental Engineer,
APPCB, Task Force,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT**

Sample Reg. No.	: Report No.Y15JA15/APPCB/ZL/KNL/AIR/2015-	
Sampling Location	: M/s. Bharati Cement Corporation Pvt Ltd, Nallalingayapalli (V), Kamalapuram (M), Kadapa district	
Sampling point	: Ambient air quality monitoring conducted at periphery of the unit on west direction near alternate fuel yard	
Sample height from ground level	: 2 meter	
Sampling site is in up wind or downwind of the source	: Downwind	
Purpose of sampling	: Compliance monitoring	
Sample collected by	: Analyst Gr-I, Zonal Laboratory, Kurnool	
Sampling Date	: 06/01/2015 & 07/01/2015	
Sample Submit date	: 09/01/2015	
Sample analysed on	: 17/01/2015	
Date of issue of report	: 17/01/2015	
Parameters	16 hrs. average values in $\mu\text{g}/\text{m}^3$	Emission Standard in $\mu\text{g}/\text{m}^3$
Particulate Matter (PM10)	110	100
Sulphur Dioxide (SO ₂)	24	80
Nitrogen Dioxide (NO ₂)	46	80
Ammonia (NH ₃)	264	400

Remarks:

1. The industry was manufacturing clinker & cement. During monitoring Line-II process units were in operation and Line-I process units were not in operation.
2. The AAQ monitoring was carried out at periphery of the unit on west direction near alternate fuel yard on downwind direction.
3. During AAQ monitoring the industry is co-processing the liquid and solid hazardous waste in cement kiln.
4. During monitoring water sprinkling was carried out on roads with movable water tanker.
5. Particulate matter (PM10) is exceeding the national ambient air quality standards.
6. SO₂, NO₂ and NH₃ values are within the National Ambient Air Quality Standards. (NAAQS).


B. NAGI REDDY
BOARD ANALYST

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**

Form IV

(See rule 14)

Report No. Y15JA16/APPCB/ZL/KNL/AIR/2015-Date: 17/01/2015

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 09/01/2015 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Cement Mill -2 (Line - II) of M/s. Bharati Cement Corporation Pvt Ltd, Nallalingayapalli (V), Kamalapuram (M), Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 17/01/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	33	50

The condition of the seals, fastening and container on receipt was as follows:

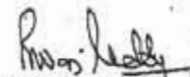
INTACT**Remarks:**

1. The industry was manufacturing clinker & cement. During stack monitoring Line-II process units were in operation and Line-I process units were not in operation. Cement mill -III is not in operation.
2. During stack monitoring the industry is co-processing the liquid and solid hazardous waste in cement kiln.
3. Bag house is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to cement mill-2 is 53 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 17/01/2015

Address:

B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.


BOARD ANALYST

To

The Senior Environmental Engineer,
APPCB, Task Force,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)

Report No. Y15JA17/APPCB/ZL/KNL/AIR/2015-

Date: 17/01/2015

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 09/01/2015 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Cooler (Line - II) of M/s. Bharati Cement Corporation Pvt Ltd, Nallalingayapalli (V), Kamalapuram (M), Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 17/01/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	28	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry was manufacturing clinker & cement. During monitoring Line-II process units were in operation and Line-I process units were not in operation.
2. During stack monitoring the industry is co-processing the liquid and solid hazardous waste in cement kiln.
3. ESP is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to cooler is 41 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 17/01/2015

Address:B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool
BOARD ANALYST**To**The Senior Environmental Engineer,
APPCB, Task Force,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**

Form IV

(See rule 14)

Report No. Y15JA18/APPCB/ZL/KNL/AIR/2015-Date: 19/01/2015

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 09/01/2015 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Lime stone crusher (Line - II) of M/s. Bharati Cement Corporation Pvt Ltd, Nallalingayapalli (V), Kamalapuram (M), Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 17/01/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	32	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry was manufacturing clinker & cement. During monitoring Line-II process units were in operation and Line-I process units were not in operation.
2. During stack monitoring the industry is co-processing the liquid and solid hazardous waste in cement kiln.
3. Bag house is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to lime stone crusher is 40 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 19/01/2015

Address:

B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.

BOARD ANALYST**To**

The Senior Environmental Engineer,
APPCB, Task Force,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**

Form IV

(See rule 14)

Report No. Y15JA19/APPCB/ZL/KNL/AIR/2015-Date: 17/01/2015

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 09/01/2015 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to 130 TPH Coal fired Boiler of M/s. Bharati Cement Corporation Pvt Ltd (30 MW Captive Power Plant), Nallalingayapalli (V), Kamalapuram (M), Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 17/01/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	14	60

The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The unit is a captive power plant and producing a thermal power with installed capacity of 30 MW. During monitoring the unit is producing 15 MW power only.
2. The boiler installed capacity is 130 TPH; during stack monitoring the boiler is in operation with a capacity of 68 TPH only.
3. ESP is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to the boiler is 55 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 17/01/2015**Address:**B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.
BOARD ANALYST**To**The Senior Environmental Engineer,
APPCB, Task Force,
Kurnool.



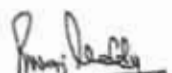
ANDHRA PRADESH POLLUTION CONTROL BOARD
ZONAL LABORATORY
1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002

AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Sample Reg. No.	: Report No.Y15JA20/APPCB/ZL/KNL/AIR/2015-	
Sampling Location	: M/s. Bharati Cement Corporation Pvt Ltd, Nallalingayapalli (V), Kamalapuram (M), Kadapa district	
Sampling point	: Ambient air quality monitoring conducted at top of the club house on east direction	
Sample height from ground level	: 8 meter	
Sampling site is in up wind or downwind of the source	: upwind	
Purpose of sampling	: Compliance monitoring	
Sample collected by	: Analyst Gr-I, Zonal Laboratory, Kurnool	
Sampling Date	: 07/01/2015	
Sample Submit date	: 09/01/2015	
Sample analysed on	: 17/01/2015	
Date of issue of report	: 17/01/2015	
Parameters	16 hrs. average values in $\mu\text{g}/\text{m}^3$	Emission Standard in $\mu\text{g}/\text{m}^3$
Particulate Matter (PM10)	59	100
Sulphur dioxide (SO ₂)	5	80
Oxides of Nitrogen (NO _x)	11	80
Ammonia (NH ₃)	26	400

Remarks:

1. The industry was manufacturing clinker & cement. During monitoring Line-II process units were in operation and Line-I process units were not in operation.
2. The AAQ monitoring was carried out at periphery of the unit on east direction at top of the club house on upwind direction.
3. During AAQ monitoring the industry is co-processing the liquid and solid hazardous waste in cement kiln.
4. Particulate matter (PM10), SO₂, NO₂ and NH₃ values are within the National Ambient Air Quality Standards. (NAAQS).


B. NAGI REDDY
BOARD ANALYST

+++ End of the Report +++

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)Report No. Y15/JL35/APPCB/ZL/KNL/AIR/2015-Date: 04/08/2015

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 28 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 01/08/2015 (monitored on 28/07/2015) from JSO, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Coal mill (Line -I) of M/s. Bharati Cement Corporation Pvt Ltd, Nallalingayapalli (V), Kamalapuram (M), Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 03/08/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	33	50

The condition of the seals, fastening and container on receipt was as follows:
INTACT

Remarks:

1. The industry was manufacturing clinker & cement. During monitoring Line-I process units were in operation and Line-II process units were not in operation.
2. During stack monitoring the industry is co-processing the liquid and solid hazardous waste in cement kiln.
3. Bag house is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to coal mill is 56.1 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 04/08/2015

Address:B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.
BOARD ANALYST**To**The Joint Chief Environmental Engineer,
APPCB, Zonal Office,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**
Form IV
(See rule 14)Report No. Y15JL36/APPCB/ZL/KNL/AIR/2015-Date: 04/08/2015

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 01/08/2015 (monitored on 29/07/2015) from JSO, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to 130 TPH Coal fired Boiler of M/s. Bharat Cement Corporation Pvt Ltd (30 MW Captive Power Plant), Nallalingayapalli (V), Kamalapuram (M), Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 03/08/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1986	28	50

The condition of the seals, fastening and container on receipt was as follows:
INTACT

Remarks:

1. The unit is a captive power plant and producing a thermal power with installed capacity of 30 MW. During monitoring the unit is producing 15 MW power only.
2. The boiler installed capacity is 130 TPH; during stack monitoring the boiler is in operation with a capacity of 65 TPH only.
3. ESP is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to the boiler is 85 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 04/08/2015

Address:B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.
BOARD ANALYST**To**The Joint Chief Environmental Engineer,
APPCB, Zonal Office,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)

Report No. Y15JL37/APPCB/ZL/KNL/AIR/2015-

Date: 04/08/2015

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 01/08/2015 (monitored on 29/07/2015) from JSO, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Cement Mill -2 (Line - I) of M/s. Bharati Cement Corporation Pvt Ltd, Nallalingayapalli (V), Kamalapuram (M), Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 04/08/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration In mg/Nm ³	Emission Standard In mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	17	50

The condition of the seals, fastening and container on receipt was as follows:
INTACT

Remarks:

1. The industry was manufacturing clinker & cement. During stack monitoring Line-1 process units were in operation and Line-II process units were not in operation. Cement mill-III is not in operation.
2. During stack monitoring the industry is co-processing the liquid and solid hazardous waste in cement kiln.
3. Bag house is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to cement mill-2 is 53 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 04/08/2015

Address:B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.
BOARD ANALYST**To**The Joint Chief Environmental Engineer,
APPCB, Zonal Office,
Kurnool.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)

Report No. Y15 JL 38/APPCB/ZL/KNL/AIR/2015-

Date: 04/08/2015

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 01/08/2015 (monitored on 29/07/2015) from JSO, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Rotary kiln - 1 (Line - I) of M/s. Bharati Cement Corporation Pvt Ltd, Nallalingayapalli (V), Kamalepuram (M), Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analyzed the aforementioned sample on 03/08/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11228 (Part-1)1985	38	50

The condition of the seals, fastening and container on receipt was as follows:
INTACT

Remarks:

1. The industry was manufacturing clinker & cement. During monitoring Line-I process units were in operation and Line-II process units were not in operation.
2. During stack monitoring the industry is co-processing the liquid and solid hazardous waste in cement kiln.
3. RABH is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to rotary kiln and raw mill is 163 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 04/08/2015

Address:B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.
BOARD ANALYST

To

The Joint Chief Environmental Engineer,
APPCB, Zonal Office,
Kurnool.



ANDHRA PRADESH POLLUTION CONTROL BOARD
ZONAL LABORATORY
1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002

REPORT BY THE STATE BOARD ANALYST
Form IV
(See rule 14)

Report No. Y15/JA13/APPCB/ZL/KNL/AIR/2015-

Date: 17/01/2015

I hereby certify that I, B. Nagl Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 09/01/2015 from Analyst-Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Rotary kiln and Raw mill (Line - II) of M/s. Bharati Cement Corporation Pvt Ltd, Nallalingayapalli (V), Kamalapuram (M), Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 17/01/2015 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	39	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT

Remarks:

1. The industry was manufacturing clinker & cement. During monitoring Line-II process units were in operation and Line-I process units were not in operation.
2. During stack monitoring the industry is co-processing the liquid and solid hazardous waste in cement kiln.
3. RABH is provided as air pollution control equipment to control dust emissions and it was working during stack monitoring.
4. The height of the stack attached to rotary kiln and raw mill is 163 meters.
5. The SPM concentration in flue gas is within the prescribed standard.

Signed this: 17/01/2015

Address:

B. Nagl Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.


BOARD ANALYST

To

The Senior Environmental Engineer,
APPCB, Task Force,
Kurnool.

ISSUED TO:

BHARATHI CEMENT CORPORATION PVLTD
NALLALINGAYAPALLI (V),
KAMALAPURAM (M),
KADAPA (TALUK) (DIST)
ANDHRA PRADESH
PIN:516 289

KINDATTN: Mr.G. KANAKAPRASAD

Report Number : 15685/13-14/VLL/000/01

Issue Date : 2013-05-13

Your Ref : 510002328

and Date : 2013-04-06

Sample Particulars: SOURCE MONITORING SAMPLE

Page 1 of 1

Sample Registration Date: 2013-04-30 Sampling Date : 2013-04-29

Analysis starting date: 2013-05-01 Analysis Completion date: 2013-05-11

Quantity received: 1No Thimble and 2No 100ml Plastic Containers;

Samples collected at Stack Attached to Incinerator;

Tests required: Oxygen, Carbon Dioxide, Carbon Monoxide, HydroCarbons, Particulate Matter, HCl, HF, Sulphur Dioxide and Oxides of Nitrogen;

SAMPLE COLLECTED BY VIMTA LABS LTD

LAB REF.: EC

TEST RESULTS

Sl. No.	PARAMETERS	UOM	METHOD OF TESTING	RESULTS
1	Date & Time of sample collected	-	-	29-04-2013 at 10.30
2	Diameter of stack	m	-	5.0
3	Flue gas temperature	°C	-	119
4	Velocity	m/Sec	-	11.4
5	Volumetric flow rate	Nm ³ /Sec	-	165.35
6	Oxygen	%	Flue Gas Analyser	11.2
7	Carbon Dioxide	%	Flue Gas Analyser	8.6
8	HF	mg/Nm ³	USEPA method -13	2.5
9	HCl	mg/Nm ³	USEPA method -26	24.2
10	Oxides of Nitrogen	mg/Nm ³	Flue Gas Analyser	707.3
11	Sulphur Dioxide	mg/Nm ³	Flue Gas Analyser	BDL
12	Carbon Monoxide	PPM	Flue Gas Analyser	26
13	Hydrocarbons	PPM	Flue Gas Analyser	BDL
14	Particulate Matter	mg/Nm ³	USEPA method -5	22.2

Instruments used: Flue Gas Analyser, Ion Selective Electrode Analyser

Remarks: HF, HCl, Oxides of Nitrogen, Sulphur Dioxide and Particulate Matter are corrected to 11% O₂ as per CPCB Guidelines HAZWAMS/30/2005 - 09

VIMTA LABS LIMITED



M. Ganaradhan
Vice President & Head-Env

Regd. Office : 142, IDA Phase II, Cherlapally, Hyderabad - 500 051, India. ☎ : 91-40-2726 4141, 2726 4444, Fax : 91-40-2726 3657

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ISSUED TO:

BHARATHI CEMENT CORPORATION PVT.LTD
NALLALINGAYAPALLI (V),
KAMALAPURAM (M),
KADAPA (TALUK) (DIST)
ANDHRA PRADESH
PIN:516 289

KIND.ATTN: Mr.G. KANAKAPRASAD

Report Number : 15685/13-14/VLL/000/03

Issue Date : 2013-05-25

Your Ref : 5100002328

and Date : 2013-04-06

Page 1 of 1

Sample Particulars: SOURCE EMISSION MONITORING SAMPLE

Sample Registration Date: 2013-04-30 Sampling Date : 2013-04-29
Analysis starting date: 2013-05-01 Analysis Completion date: 2013-05-21

Quantity received: XAD Module, Filter Paper and Methanol/MeCl₂ Line washing – TOC, Thimble, HNO₃/H₂O₂ and KMnO₄ Solutions – Metals; Samples collected at stack Attached to Incinerator stack
Test required: Total Organic Carbon & Metals;
SAMPLE COLLECTED BY VIMTA LABS LTD

LAB REF.: EC/

TEST RESULTS

Sl. No.	PARAMETERS	UOM	METHOD OF TESTING	RESULTS
1	Chromium as Cr	mg/Nm ³	USEPA method -29	0.038
2	Manganese as Mn	mg/Nm ³	USEPA method -29	0.044
3	Antimony as Sb	mg/Nm ³	USEPA method -29	0.011
4	Arsenic as As	mg/Nm ³	USEPA method -29	0.008
5	Mercury as Hg	mg/Nm ³	USEPA method -29	<0.001
6	Lead as Pb	mg/Nm ³	USEPA method -29	0.034
7	Cobalt as Co	mg/Nm ³	USEPA method -29	0.012
8	Copper as Cu	mg/Nm ³	USEPA method -29	0.045
9	Nickel as Ni	mg/Nm ³	USEPA method -29	0.028
10	Vanadium as V	mg/Nm ³	USEPA method -29	0.037
11	Cadmium + Thallium (Cd + Tl)	mg/Nm ³	USEPA method -29	0.024
12	Cadmium as Cd	mg/Nm ³	USEPA method -29	0.013
13	Thallium as Tl	mg/Nm ³	USEPA method -29	0.011
14	Total Organic Carbon	mg/Nm ³	USEPA method -6030/31 8260 B	5.3

Instruments used: GC-FID, ICP-MS& Cold Vapor AAS

Remarks: All the values are corrected to 11% O₂ as per CPCB Guidelines HAZWAMS/30/2005 - 06

VIMTA LABS LIMITED



M. Janardhan

Vice President & Head-Env

Regd. Office : 142, IDA Phase II, Cherlapally, Hyderabad - 500 051, India. ☎ : 91-40-2726 4141, 2726 4444, Fax : 91-40-2726 3657

Life Sciences Facility : 5, Alexandria Knowledge Park, Genome Valley, Hyderabad-500 078, India. ☎ : 91-40-67404040

E-mail : vimta@vimta.com URL : www.vimta.com

ISSUED TO:

BHARATHI CEMENT CORPORATION P.V.LTD
NALLALINGAYAPALLI (V),
KAMALAPURAM (M),
KADAPA (TALUK) (DIST)
ANDHRA PRADESH
PIN:516 289

KIND.ATTN: Mr.G. KANAKAPRASAD

Report Number : 02091/13-14/VLL/000/02

Issue Date : 2013-05-13

Your Ref : 5100002328

and Date : 2013-04-06

Page 1 of 1

Sample Particulars: SOURCE EMISSION MONITORING SAMPLE

Sample Registration Date: 2013-04-30 Sampling Date : 2013-04-29
Analysis starting date: 2013-05-01 Analysis Completion date : 2013-05-11
Sample collected at Stack Attached to Incinerator
SAMPLE COLLECTED BY VIMTA LABS LTD

LAB REF.: EC

TEST RESULTS

Sl. No.	PARAMETERS	UOM	RESULTS
EMISSION RATES			
1	Diameter of stack	m	5.0
2	Flue gas temperature	°C	119
3	Velocity	m/sec	11.4
4	Volumetric flow rate	Nm ³ /Sec	165.4
DIOXIN AND FURANS			
5	2,3,7,8-TCDF	ng/Nm ³ , TEQ	0.00006
6	1,2,3,7,8-PeCDF	ng/Nm ³ , TEQ	0.00000
7	2,3,4,7,8-PeCDF	ng/Nm ³ , TEQ	0.00000
8	1,2,3,4,7,8-HxCDF	ng/Nm ³ , TEQ	0.00001
9	1,2,3,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.00001
10	2,3,4,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.00001
11	1,2,3,7,8,9-HxCDF	ng/Nm ³ , TEQ	0.00000
12	1,2,3,4,6,7,8-HpCDF	ng/Nm ³ , TEQ	0.00001
13	1,2,3,4,7,8,9-HpCDF	ng/Nm ³ , TEQ	0.00000
14	OCDF	ng/Nm ³ , TEQ	0.00000
15	2,3,7,8-TCDD	ng/Nm ³ , TEQ	0.00233
16	1,2,3,7,8-PeCDD	ng/Nm ³ , TEQ	0.00000
17	1,2,3,4,7,8-HxCDD	ng/Nm ³ , TEQ	0.00000
18	1,2,3,6,7,8-HxCDD	ng/Nm ³ , TEQ	0.00005
19	1,2,3,7,8,9-HxCDD	ng/Nm ³ , TEQ	0.00007
20	1,2,3,4,6,7,8-HpCDD	ng/Nm ³ , TEQ	0.00007
21	OCDD	ng/Nm ³ , TEQ	0.00000
Total Furans & Dioxins		ng/Nm ³ , TEQ	0.00262
Total Furans & Dioxins		ng/Nm ³ , TEQ Corrected to 11% O ₂ Concentration	0.00268

Instruments used: GC-FID, ICP-MS& Cold Vapor AAS

Remark: All the values are corrected to 11% O₂ as per CPCB Guidelines HAZWAMS/30/2005 - 06

VIMTA LABS LIMITED



M. Janardhan

Regd. Office : 142, IDA Phase II, Charlapally, Hyderabad - 500 051, India. ☎ : 91-40-2726 4141, 2726 4444

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TEST REPORT

REF: UEA/BCCPL/R1/1114

Date: 30-11-2014

STACK EMISSION DATA

Name of the Industry & Address : M/s. Bharathi Cements Corporation Pvt Ltd.,
Nallalingayapalli(V), Kamalapuram(M)
Y.S.R Kadapa (Dist).

Sample Particulars : Stack attached to Incinerator(Line 1)
Date of sampling : 24-11-2014

- 1. Stack diameter (m) : 5.0
- 2. Stack cross sectional area (sq m) : 19.62
- 3. Flue gas temperature (°C) : 121
- 4. Exit velocity of flue gases (m/sec) : 10.85
- 5. Flow rate (Nm³/hr) : 5,79,631

	EMISSION DATA	Testing Method
6. Particulate Matter(mg/Nm ³)	: 19.6	USEPA Method-5
7. Oxides of Nitrogen(mg/Nm ³)	: 698.4	Flue Gas Analyser
8. Sulphur Dioxides (mg/Nm ³)	: BDL	Flue Gas Analyser
9. Hydrogen Florida(mg/Nm ³)	: 2.3	USEPA Method-13
10. Hydrochloric Acid (mg/Nm ³)	: 19.8	USEPA Method-26
11. Carbon Monoxide(ppm)	: 21	Flue Gas Analyser
12. Hydrocarbons(ppm)	: BDL	Flue Gas Analyser
13. Oxygen (%)	: 11.4	Flue Gas Analyser
14. Carbon Dioxide (%)	: 7.1	Flue Gas Analyser

V. Mahesh
Analyst

[Signature]
Authorised Signatory

STACK KIT MODEL/SR/NO:SEA-90/970201, NEXT CALIBRATION ON: 07/07/15





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TEST REPORT

REF: UEA/BCCPL/R2/1114

Date: 30-11-2014

STACK EMISSION DATA

Name of the Industry & Address : M/s. Bharathi Cements Corporation Pvt Ltd.,
Nallalingayapalli(V), Kamalapuram(M),
Y.S.R.Kadapa (Dist).

Sample Particulars : Stack attached to Incinerator(Line-1)
Date of sampling : 24-11-2014

- 1. Stack diameter (m) : 5.0
- 2. Stack cross sectional area (sq. m) : 19.62
- 3. Flue gas temperature (°C) : 121

EMISSION DATA

Testing Method

6. Chromium as Cr (mg/Nm ³)	: 0.028	USEPA Method-29
7. Manganese as Mn (mg/Nm ³)	: 0.051	USEPA Method-29
8. Antimony as Sb (mg/Nm ³)	: 0.009	USEPA Method-29
9. Arsenic as As (mg/Nm ³)	: 0.010	USEPA Method-29
10. Mercury as Hg (mg/Nm ³)	: <0.001	USEPA Method-29
11. Lead as Pb (mg/Nm ³)	: 0.036	USEPA Method-29
12. Cobalt as Co (mg/Nm ³)	: 0.014	USEPA Method-29
13. Copper as Cu (mg/Nm ³)	: 0.039	USEPA Method-29
14. Nickel as Ni (mg/Nm ³)	: 0.021	USEPA Method-29
15. Vanadium as V (mg/Nm ³)	: 0.032	USEPA Method-29
16. Cadmium(Cd) + Thallium(Tl) (mg/Nm ³)	: 0.019	USEPA Method-29
17. Cadmium as Cd (mg/Nm ³)	: 0.011	USEPA Method-29
18. Thallium as Tl (mg/Nm ³)	: 0.008	USEPA Method-29
19. Total Organic Carbon	: 4.9	USEPA method- 0031/31 8250 B

y. nabil
Analyst

Authorized Signatory

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TEST REPORT

REF: UEA/BCOPL/R1/1214

Date: 25-12-2014

STACK EMISSION DATA

Name of the Industry & Address : M/s. Bharathi Cements Corporation Pvt Ltd.,
Nallalingayapalli(V), Kamalapuram(M)
Y.S.R Kadapa (Dist).

Sample Particulars : Stack attached to Incinerator(Line-2)
Date of sampling : 17-12-2014

- 1. Stack diameter (m) : 5.0
- 2. Stack cross sectional area (sq m) : 19.62
- 3. Flue gas temperature (°C) : 126
- 4. Exit velocity of flue gases (m/sec) : 11.09
- 5. Flow rate (Nm³/hr) : 5,85,028

	EMISSION DATA	Testing Method
6. Particulate Matter(mg/Nm ³)	: 27.1	USEPA Method-5
7. Oxides of Nitrogen(mg/Nm ³)	: 729.4	Flue Gas Analyser
8. Sulphur Dioxides (mg/Nm ³)	: BDL	Flue Gas Analyser
9. Hydrogen Fluoride(mg/Nm ³)	: 2.5	USEPA Method-13
10. Hydrochloric Acid (mg/Nm ³)	: 21.2	USEPA Method-26
11. Carbon Monoxide(ppm)	: 27	Flue Gas Analyser
12. Hydrocarbons(ppm)	: BDL	Flue Gas Analyser
13. Oxygen (%)	: 11.9	Flue Gas Analyser
14. Carbon Dioxide (%)	: 6.8	Flue Gas Analyser

v. mahesh
Analyst

[Signature]
Authorised Signatory

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TEST REPORT

REF: UEA/BCOPL/R2/1214

Date: 25-12-2014

STACK EMISSION DATA

Name of the Industry & Address : M/s. Bharathi Cements Corporation Pvt Ltd.,
Nallalingayapalli(V), Kamalapuram(M)
Y.S.R. Kadapa (Dist).

Sample Particulars : Stack attached to Incinerator (Line-2)
Date of sampling : 17-12-2014

- 1. Stack diameter (m) : 5.0
- 2. Stack cross sectional area (sq m) : 19.62
- 3. Flue gas temperature (°C) : 126

EMISSION DATA

	EMISSION DATA	Testing Method
6. Chromium as Cr (mg/Nm ³)	: 0.031	USEPA Method-29
7. Manganese as Mn (mg/Nm ³)	: 0.048	USEPA Method-29
8. Antimony as Sb (mg/Nm ³)	: 0.007	USEPA Method-29
9. Arsenic as As (mg/Nm ³)	: 0.012	USEPA Method-29
10. Mercury as Hg (mg/Nm ³)	: <0.001	USEPA Method-29
11. Lead as Pb (mg/Nm ³)	: 0.041	USEPA Method-29
12. Cobalt as Co (mg/Nm ³)	: 0.017	USEPA Method-29
13. Copper as Cu (mg/Nm ³)	: 0.035	USEPA Method-29
14. Nickel as Ni (mg/Nm ³)	: 0.019	USEPA Method-29
15. Vanadium as V (mg/Nm ³)	: 0.033	USEPA Method-29
16. Cadmium(Cd) + Thallium(Tl) (mg/Nm ³)	: 0.022	USEPA Method-29
17. Cadmium as Cd (mg/Nm ³)	: 0.013	USEPA Method-29
18. Thallium as Tl (mg/Nm ³)	: 0.009	USEPA Method-29
19. Total Organic Carbon	: 5.1	USEPA method- 0031/31.8260 B

V. Subudh
Analyst

R. Srinivas
Authorised Signatory

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TEST REPORT

REF: UEA/BCCPL/R1/0815

Date: 18-08-2015

STACK EMISSION DATA

Name of the Industry & Address : M/s. Bharathi Cements Corporation Pvt Ltd.,
Nallalingayapalli(V), Kamalapuram(M)
Y.S.R Kadapa (Dist).

Sample Particulars : Stack attached to Incinerator(Line-1)
Date of sampling : 12-08-2015

- 1. Stack diameter (m) : 5.0
- 2. Stack cross sectional area (sq m) : 19.62
- 3. Flue gas temperature (°C) : 127
- 4. Exit velocity of flue gases (m/sec) : 10.98
- 5. Flow rate (Nm³/hr) : 5,77,769

	EMISSION DATA	Testing Method
6. Particulate Matter(mg/Nm ³)	: 24.2	USEPA Method-5
7. Oxides of Nitrogen(mg/Nm ³)	: 738.4	Flue Gas Analyser
8. Sulphur Dioxides (mg/Nm ³)	: 80L	Flue Gas Analyser
9. Hydrogen Florida(mg/Nm ³)	: 2.7	USEPA Method-13
10. Hydrochloric Acid (mg/Nm ³)	: 22.1	USEPA Method-26
11. Carbon Monoxide(ppm)	: 24	Flue Gas Analyser
12. Hydrocarbons(ppm)	: 8DL	Flue Gas Analyser
13. Oxygen (%)	: 11.6	Flue Gas Analyser
14. Carbon Dioxide (%)	: 6.4	Flue Gas Analyser

V. Mahi
Analyst

[Signature]
Authorised Signatory

STACK KIT MODEL/SR/NO:SEA-90/970201, NEXT CALIBRATION ON: 06/07/16

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Ph: 040-27622361, 85533267; e-mail: uea123@gmail.com; website: www.universalenviro.in

TEST REPORT

REF: UEA/BCCPL/R2/0815

Date: 18-08-2015

STACK EMISSION DATA

Name of the Industry & Address : M/s. Bhiarathi Cements Corporation Pvt Ltd.,
Nallalingayapalli(V), Kamalapuram(M)
Y.S.R. Kadapa (Dist).

Sample Particulars : Stack attached to Incinerator(Line-1)
Date of sampling : 12-08-2015

- 1. Stack diameter (m) : 5.0
- 2. Stack cross sectional area (sq m) : 19.62
- 3. Flue gas temperature (°C) : 127

	EMISSION DATA	Testing Method
6. Chromium as Cr (mg/Nm ³)	: 0.023	USEPA Method-29
7. Manganese as Mn (mg/Nm ³)	: 0.046	USEPA Method-29
8. Antimony as Sb (mg/Nm ³)	: 0.007	USEPA Method-29
9. Arsenic as As (mg/Nm ³)	: 0.012	USEPA Method-29
10. Mercury as Hg (mg/Nm ³)	: <0.001	USEPA Method-29
11. Lead as Pb (mg/Nm ³)	: 0.041	USEPA Method-29
12. Cobalt as Co (mg/Nm ³)	: 0.016	USEPA Method-29
13. Copper as Cu (mg/Nm ³)	: 0.044	USEPA Method-29
14. Nickel as Ni (mg/Nm ³)	: 0.018	USEPA Method-29
15. Vanadium as V (mg/Nm ³)	: 0.035	USEPA Method-29
16. Cadmium(Cd) + Thallium(Tl) (mg/Nm ³)	: 0.024	USEPA Method-29
17. Cadmium as Cd (mg/Nm ³)	: 0.013	USEPA Method-29
18. Thallium as Tl (mg/Nm ³)	: 0.009	USEPA Method-29
19. Total Organic Carbon	: 5.1	USEPA method- 0031/31-8260-B

V. Madhav
Analyst

R. Prasad
Authorised Signatory

STACK KIT MODEL/SR/NO:SEA-90/970201, NEXT CALIBRATION ON: 06/03/16

We Offer : ♦ Pollution Testing and Analysis ♦ STP & ETP Turnkey D & M ♦ EIA/EMP/VA/AA/IA/EA ♦ Other Environmental



Right Choice

UNIVERSAL ENVIRO ASSOCIATES

ISO 9001 : 2008 and OHSAS 18001 : 2007 Certified Company
Lab. Recognized by MoEF, Govt. New Delhi. (Validity : 08-04-2013 to 07-04-2015)
A 104 & 105, Usha Enclave, RTC 'X' Roads, Mushaabad, Hyderabad-500 022.
Ph: 040-27603217, 65533361 e-mail: uen23@gmail.com, website: www.universalenviro.in

TEST REPORT

REF: UEA/BCCPL/R1/1215

Date: 05-01-2016

STACK EMISSION DATA

Name of the Industry & Address : M/s. Bharathi Cements Corporation Pvt Ltd.,
Nallalingayapalli(V), Kamalapuram(M)
Y.S.R Kadapa (Dist).

Sample Particulars : Stack attached to Incinerator(Line-2)
Date of sampling : 26-12-2015

- 1. Stack diameter (m) : 5.0
- 2. Stack cross sectional area (sq m) : 19.62
- 3. Flue gas temperature (°C) : 118
- 4. Exit velocity of flue gases (m/sec) : 10.71
- 5. Flow rate (Nm³/hr) : 5,76,541

	EMISSION DATA	Testing Method
6. Particulate Matter(mg/Nm ³)	25.8	USEPA Method-5
7. Oxides of Nitrogen(mg/Nm ³)	691.5	Flue Gas Analyser
8. Sulphur Dioxides (mg/Nm ³)	BDL	Flue Gas Analyser
9. Hydrogen Florida(mg/Nm ³)	2.2	USEPA Method-13
10. Hydrochloric Acid (mg/Nm ³)	18.9	USEPA Method-26
11. Carbon Monoxide(ppm)	24	Flue Gas Analyser
12. Hydrocarbons(ppm)	BDL	Flue Gas Analyser
13. Oxygen (%)	11.8	Flue Gas Analyser
14. Carbon Dioxide (%)	7.1	Flue Gas Analyser

V. Mahesh
Analyst

[Signature]
Authorised Signatory

STACK KIT MODEL/SR/NO:SEA-90/970201, NEXT CALIBRATION ON:06/07/16



We Offer: Pollution Testing and Analysis, STP & ETP Turnkey O & M, EIA/EMP/ Audit etc., Other Environmental



Right Choice

UNIVERSAL ENVIRO ASSOCIATES

ISO 9001 : 2008 and ISO 14001 : 2007 Certified Company
Lab Recognized by MoEF, GOI, New Delhi, Validity : 08-04-2013 to 07-04-2018
104 & 105, Libra Enclave, RTC X Road, Musheerabad, Hyderabad-500 029
Ph: 040-27433361, 55033361 e-mail: uea123@gmail.com, website: www.universalenviro.in

TEST REPORT

REF: UEA/BCCPL/R2/1215

Date: 05-01-2016

STACK EMISSION DATA

Name of the Industry & Address : M/s. Bharathi Cements Corporation Pvt Ltd.,
Nallalingayapalli(V), Kamalapuram(M)
Y.S.R Kadapa (Dist).

Sample Particulars : Stack attached to Incinerator (Line-2)
Date of sampling : 26-12-2015

- 1. Stack diameter (m) : 5.0
- 2. Stack cross-sectional area (sq m) : 19.62
- 3. Flue gas temperature (°C) : 118

	EMISSION DATA	Testing Method
6. Chromium as Cr (mg/Nm ³)	: 0.027	USEPA Method-29
7. Manganese as Mn (mg/Nm ³)	: 0.045	USEPA Method-29
8. Antimony as Sb (mg/Nm ³)	: 0.007	USEPA Method-29
9. Arsenic as As (mg/Nm ³)	: 0.015	USEPA Method-29
10. Mercury as Hg (mg/Nm ³)	: <0.001	USEPA Method-29
11. Lead as Pb (mg/Nm ³)	: 0.039	USEPA Method-29
12. Cobalt as Co (mg/Nm ³)	: 0.021	USEPA Method-29
13. Copper as Cu (mg/Nm ³)	: 0.042	USEPA Method-29
14. Nickel as Ni (mg/Nm ³)	: 0.016	USEPA Method-29
15. Vanadium as V (mg/Nm ³)	: 0.038	USEPA Method-29
16. Cadmium (Cd) + Thallium (Tl) (mg/Nm ³)	: 0.026	USEPA Method-29
17. Cadmium as Cd (mg/Nm ³)	: 0.015	USEPA Method-29
18. Thallium as Tl (mg/Nm ³)	: 0.011	USEPA Method-29
19. Total Organic Carbon	: 5.5	USEPA method- 0031/31 8260 B

V. Mahesh
Analyst

R. Srinivas
Authorised Signatory

STACK KIT MODLE/SR/NO:SEA-90/970201, NEXT CALIBRATION ON: 06/07/16

We Offer : • Pollution Testing and Analysis • STP & ETP (Turnkey) • O & M • EPC/ENR • Audit • Other Environmental Services

**M/s. Zuari Cements Ltd.,
Yerraguntla (M), Kadapa
District**



Speed Post

केन्द्रीय प्रदूषण नियंत्रण बोर्ड

CENTRAL POLLUTION CONTROL BOARD

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

B-33014/2015/PCI-II/ २२६०

ZUARI CEMENT LTD.
KRISHNA NAGAR.

Date: 8.9.2015

To

M/s Zuari Cement Ltd.
Krishna Nagar, Yerraguntla
Kadapa Distt., AP 516 311

16 SEP 2015

Sub.: Regular permission for co-processing of distillation residue (both liquid and solid) and spent carbon (Pharma Industry) for co-processing in cement kiln of M/s Zuari Cement Ltd. Krishna Nagar, Yerraguntla, Kadapa Distt., AP- reg.

Ref: - APPCB Letter no. PCB/HWM/Co-processing/CDP-7/2014 dated 03.01.2015
- Zuari cement letter no. ZCLYA/AF/2015/50106 dated 20.7.2015

Sir,

In reference to above cited letter, permission is hereby accorded for co-processing of distillation residue (both liquid and solid) and spent carbon (pharma industry), under the Rule 11 of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, subject to compliance of various provisions of the Environment (Protection) Act, 1986 including the following:

1. The permission is valid only for co-processing of above specified hazardous wastes. The waste characteristics should be similar to that for which trial run has been conducted by CPCB/SPCB. The details are enclosed in Annexure. Prior permission has to be obtained for co-processing of any other hazardous waste.
2. The cement plant shall obtain the authorization from the concerned State Pollution Control Boards as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste.
3. For transportation of proposed hazardous wastes for co-processing in cement kiln, manifest system as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and guidelines of CPCB shall be followed.
4. The generator of hazardous waste shall obtain authorization from the State Pollution Control Board as required under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 for storage, handling, transportation and co-processing of hazardous waste in cement plant.
5. The cement plant shall estimate the quantity of hazardous waste required to be co-processed. Cement industry shall provide adequate covered storage space for the hazardous waste in accordance with Hazardous Waste Rules and guidelines for storage of hazardous waste. The occupier shall also ensure that there is no leaching of any pollutant. The actual quantity of hazardous waste co-processed monthly shall be reported by cement plant and hazardous waste generator to CPCB and SPCB.
6. The cement plant shall ensure the compliance of the conditions stipulated in the consents issued under the Air Act, 1981 and Water Act, 1974 during the co-processing of hazardous waste.

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

दूरभाष/Tel : 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

7. Cement industry shall comply the proposed emission standards for co-processing which includes PM, SO₂, NO_x, HCl, HF, TOC, heavy metals and dioxins & furans (copy enclosed).
8. The cement plant shall take the hazardous waste only from the authorized generator.
9. Hazardous waste supplier shall inform the quantity of waste supplied to cement plant to CPCB.
10. A log book of the waste co-processed shall be maintained including emission monitoring result during co-processing.
11. During co-processing of hazardous waste in cement kiln, the cement plant shall comply with all the requirements in accordance with the Public Liability Insurance Act, 1991 as amended.
12. CPCB & SPCB shall monitor the emission from co-processing to verify the compliance of proposed standards.
13. In case of any violation in the conditions stipulated, the permission can be withdrawn at any time.
14. CPCB reserves the right to review / impose additional conditions or revoke, change or alter any of the terms and conditions.

Yours faithfully
s. s. Bal
(Dr. S. S. Bala)
Director & I/c PCH-1 Div

Encl.: As above

79. Characteristics of distillation residue (both liquid and solid) and spent carbon of pharma industry

The Characteristics of distillation residue (both liquid and solid) and spent carbon of pharma industry is given below which is permitted for use @ 8.3 % (maximum) for co-processing in cement kiln.

Table 1.1 : Proximate & Ultimate Analysis of waste

Sr. No.	Parameters	Distillation residue (liquid) %	Distillation residue (solid) %	Spent carbon %
Proximate Analysis:				
1	Moisture Content	88.93	22.54	19.75
2	Ash Content	0.85	8.96	4.16
3	Volatile Matter	10.11	31.57	36.43
4	Fixed Carbon	0.11	36.93	39.66
Ultimate Analysis:				
5	Carbon	56.40	49.75	79.95
6	Hydrogen	6.16	4.11	3.75
7	Nitrogen	4.02	3.87	<0.10
8	Sulphur	0.99	1.36	0.22
9	Oxygen	26.75	40.91	10.80
10	Mineral Matter	7.68	6.27	5.18
11	Gross Calorific Value (Kcal/Kg)	5102	4975	7086
12	Net Calorific Value (Kcal/Kg)	4776	4620	6887
13	Chlorine	0.07	0.09	0.05
14	Flourine (mg/kg)	36.8	31.7	25.3

Table 1.2 : Heavy Metals Contents in waste

S.N.	Parameters	Distillation residue (liquid) mg/Kg	Distillation residue (solid) mg/Kg	Spent carbon mg/Kg
15	Cadmium as Cd	0.02	<0.1	3.86
16	Chromium as Cr	16.8	28.53	142.8
17	Copper as Cu	<0.1	0.04	2.37
18	Cobalt as Co	<0.1	<0.1	0.39
19	Manganese as Mn	10.1	11.6	70.74
20	Nickel as Ni	14.36	29.51	0.18
21	Lead as Pb	<0.1	<0.1	<0.1
22	Zinc as Zn	63.43	95.7	17.6
23	Arsenic as As	<0.1	0.1	<0.1
24	Mercury as Hg	<0.1	<0.1	<0.1
25	Antimony as Sb	<0.1	<0.1	<0.1
26	Vanadium as V	0.54	1.45	0.13
27	Tin as Sn	0.13	0.51	<0.1
28	Thallium as Tl	<0.1	<0.1	<0.1
29	TOC %	60.4	49.8	49.86
30	Iron as Fe %	0.18	0.09	0.06
31	Selenium as se	<0.1	<0.1	<0.1

Table: 1.3 : VOCs, SVOCs, PCBs, PCPs & Organo-Chlorines in waste

Sr. No.	Parameters	Distillation residue (liquid) $\mu\text{g}/\text{Kg}$	Distillation residue (solid) $\mu\text{g}/\text{Kg}$	Spent carbon $\mu\text{g}/\text{Kg}$
32	VOCs	BDL	BDL	BDL
33	SVOCs	BDL	BDL	BDL
34	PCBs	BDL	BDL	BDL
35	Poly Chlorophenols (PCPs)	BDL	BDL	BDL
36	Organo-Chlorines	BDL	BDL	BDL

(BDL: < 0.1 $\mu\text{g}/\text{kg}$)

[To be published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (1)]
MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE
NOTIFICATION

New Delhi, theMay, 2015

G.S.R..... (E). - In exercise of powers conferred by Sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, Namely :-

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2015.
 (2) They shall come into force on the date of their publication in the official Gazette.
2. In the Environment (Protection) Rules, 1986 -
 (a) in schedule I, in existing serial number 10 for the existing entries and entries relating thereto, the following serial number 10 (A) and entries shall be added, namely:-

S. No.	Industry	Parameter	Standards	
(1)	(2)	(3)	(4)	
10 (a)	Cement Plant with co-processing of wastes	A- Emission Standards		
		Rotary Kiln - with co-processing of Wastes		
			Date of Commissioning	Concentration not to exceed
		Particulate Matter		30 mg/Nm ³ (w.e.f.1.6.2016)
		SO ₂		100 mg/Nm ³
		NO _x	On or after 25.8.2014	600 mg/Nm ³ (w.e.f.1.6.2015)
			Before 25.8.2014	800 mg/Nm ³ (w.e.f.1.1.2016)
		HCl		10 mg/Nm ³
		HF		1 mg/Nm ³
		TOC		10 mg/Nm ³
		Hg and its compounds		0.05 mg/Nm ³
		Cd +Tl and their compounds		0.05 mg/Nm ³
		Sb+As+Pb+Co+Cr+Cu+Mn+Ni+V and their compounds		0.5 mg/Nm ³
	Dioxins and Furans		0.1 ngTEQ/Nm ³	
	Note: a. The height of each stack including Clinker Grinding Plant, Coal Mill,			

	<p>Raw Mill, Grinding, Packaging section, etc. shall be of a minimum of 30 metres or, as per the formula $H = 14 (Q)^{0.3}$, whichever is more, where "H" is the height of stack in metres and "Q" is the maximum quantity of SO₂ expected to be emitted in kg/hr through the stack at 100 percent rated capacity of the plant and calculated as per the norms of gaseous emission.</p> <p>b. All monitored values shall be corrected to 10% Oxygen, on dry basis. The norms for SO₂, NO_x, HCl, HF, TOC, Metals and Dioxins & Furans shall be applicable to stacks attached to kiln. PM, SO₂ & NO_x shall be monitored continuously. HCl, HF, TOC, Metals and Dioxins & Furans shall be monitored twice a year.</p> <p>c. Scrubber meant for scrubbing emissions shall not be used as quencher. Plants having separate stack for gaseous emission for the scrubbing unit, the height of this stack shall be atleast equal to the main stack.</p>										
	<p>B- Service waste water (with co-processing of wastes)</p> <p>All efforts shall be made by the industry for 'zero discharge' of service wastewater. In case, the industry prefers to discharge service wastewater, the following norms shall be complied with:</p> <table border="1"> <thead> <tr> <th></th> <th>Concentration not to exceed, milligramme per litre (except pH and temperature)</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>5.5 to 9.0</td> </tr> <tr> <td>Suspended Solids</td> <td>100</td> </tr> <tr> <td>Oil and Grease</td> <td>10</td> </tr> <tr> <td>Temperature</td> <td>not more than 5°C higher than the intake water temperature</td> </tr> </tbody> </table>		Concentration not to exceed, milligramme per litre (except pH and temperature)	pH	5.5 to 9.0	Suspended Solids	100	Oil and Grease	10	Temperature	not more than 5°C higher than the intake water temperature
	Concentration not to exceed, milligramme per litre (except pH and temperature)										
pH	5.5 to 9.0										
Suspended Solids	100										
Oil and Grease	10										
Temperature	not more than 5°C higher than the intake water temperature										
	<p>C- Storm water</p> <p>(I) Stormwater shall not be allowed to mix with effluent, treated sewage, scrubber water and / or floor washings.</p> <p>(II) Stormwater within battery limits of industry shall be channelized through separate drain(s) as per natural gradient passing through high density polyethylene lined pit(s) each having holding capacity of 10 minutes (hourly average) of rainfall for its catchment area".</p>										

- (b) in schedule VI, under 'Part-D' relating to General Emission Standards, in item III relating to Load / Mass based standards, after serial number 9, and the entries relating thereto, the following serial number and entries shall be inserted, namely:-

(2)	(3)	(4)
Cement Plants (with co-processing)	Rotary kiln based plants (Particulate Matter from raw mill, kiln and pre-calciner system put together)	0.125 Kg/tonne of clinker

[F. NO. Q-15017/40/2007-CPW]

(Dr. Rashid Hasan)

Advisor

Note:- The principal rules were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i) vide notification number S. O. 393 (E), dated 16th April, 1987 and lastly amended vide notification number G.S.F. 612(E), dated 25th August, 2014.



**BY REG. POST WITH ACK. DUE
CONSENT & AUTHORISATION ORDER**

Consent Order No: APPCB/KNL/TPT/75/HO/CEO/2015- 2117 Date: 13.03.2015

(Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof, Operation of the plant under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation / Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary, Movement) Rules 2008 & Amendments thereof.

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, under section 21 of Air (Prevention & Control of Pollution) Act 1981 and Authorisation under the provisions of HW (MH & TM) Rules (hereinafter referred to as 'the Rules') and the rules and orders made thereunder to

M/s Zuari Cements Ltd.,
Krishna Nagar, Yerraguntla,
Kadapa District.
e-mail: y.mahalingareddy@zcoil.com

ZUARI CEMENTS LTD.
KRISHNA NAGAR.
23 MAR 2015

(hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of Emissions per hour from the chimneys as detailed below:

i) Out lets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1.	Domestic	135 KLD	After treatment in STP, the treated effluents should be used for onland for Plantation / Reuse.

ii) Emissions from chimneys: (line - I)

Chimney No.	Description of Chimney
1.	Stack attached to Kiln + Rawmill-1
2.	Stack attached to Calciner + Rawmill-2
3.	Stack attached to Cooler
4.	Stack attached to Coalmill -1
5.	Stack attached to Coalmill -2
6.	Stack attached to Cement mill - 1
7.	Stack attached to Cement mill - 2
8.	Stack attached to Cement mill -3
9.	Stack attached to 1500 KVA DG Set
10.	Stack attached to 4x750 - KVADG Set

iii) Emissions from chimneys: (line - II)

11.	Stack attached to Kiln + Rawmill + Cooler
12.	Stack attached to Coalmill -3
13.	Stack attached to Cement mill -4
14.	Stack attached to Limestone crusher

iv) HAZARDOUS WASTE AUTHORISATION (FORM - II) [See Rule 5 (4)]

M/s Zuari Cements Ltd., Krishna Nagar, Yerraguntla, Kadapa District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

HAZARDOUS WASTES PROCURED FROM OTHER INDUSTRIES:

Sl.No.	Name of the Hazardous waste	Stream	Quantity of Hazardous waste	Disposal Option
1.	Distillation Residue	36.1 Schedule -I	12000 MT/Annum	Co-processing in the rotary kiln.
2.	Spent carbon	28.2 Schedule -I	12000 MT/Annum	

HAZARDOUS WASTES GENERATED IN THE INDUSTRY PREMISES:

Sl.No.	Name of the Hazardous waste	Stream	Quantity of Hazardous waste	Disposal Option.
1.	Waste /Used oil	S.1 Schedule-I	2.5 Kl./Annum.	Shall be burnt in the rotary kiln.
2.	Waste grease	S.2 Schedule-I	3 T/Annum	

This consent order is valid to manufacture the following products along with quantities indicated below only.

S.No	Products	Capacity
1.	Cement (OPC /PPC/PSC)	5.4 Million TPA

* The cement production is inclusive of 4.3 MTPA of clinker production.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorisation should be valid for a period ending with the 31st day of March 2018.

Sd/-
MEMBER SECRETARY

To
M/s. Zuari Cements Ltd.,
Krishna Nagar, Yerraguntla,
Kadapa District - 516311.

//T.C.F.B.O//

W. S. S. / 15

JOINT CHIEF ENVIRONMENTAL ENGINEER
(UB-IV)

SCHEDULE - A

- The applicant shall make applications through online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorization of the Board.
- The conditions stipulated in the Schedule - A of the earlier combined C/O & HWA order No. APPCB/KNL/TPT/75/HO/2007-1013, dt.08.08.2007 remain same. The applicant should ensure consistent compliance of each condition of Schedule-A.
- Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.
- The applicant shall comply with all the directions issued by the Board from time to time.
- The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.

SCHEDULE - B

- The effluent discharged should not contain constituents in excess of the tolerance limits mentioned below:

Outlet No.	Parameter No.	Limiting Standards
1.	pH	5.5 - 9.0
	Suspended Solids	200 mg/l
	Oil and Grease	10 mg/l
	BOD	100 mg/l

2. The industry should take steps to reduce water consumption to the extent possible and consumption should NOT exceed the quantities mentioned below:

S.No.	Purpose	Quantity
1	Process & Cooling	2510 KLD
2	Washings	
3	Industrial Cooling	
4	Domestic	155 KLD
Total:		2665 KLD

3. The industry should file the water Cess returns in Form-1 as required under Section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before 5th of every calendar month, showing the quantity of the water consumed in the previous month along with water meter readings. The industry should remit water cess as per the assessment orders as and when issued by the Board.

4. The emissions should not contain constituents in excess of the prescribed limits mentioned below.

Chimney No.	Parameter	Standards
1, 11 to 14	Particulate Matter	50 mg/Nm ³
2 to 8	Particulate Matter	100 mg/Nm ³

5. The industry should comply with emission limits for DG Sets of capacity up to 800 KW as per the Notification G.S.R. 520(E), dated 01.07.2003 under Environment(Protection) Amendment Rules, 2003 and G.S.R. 448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets of capacity more than 800 KW should comply with emission limits as per the notification GSR 489(E), dated 09.07.2002 at Serial No.96, under the Environment(Protection) Act, 1986.

6. The industry should comply with ambient air quality standards of PM 10(Particulate Matter Size less than 10 um) - 100 ug/m³; PM 2.5 (Particulate Matter size less than 2.5 um) - 60 ug/m³; SO₂ - 80 ug/m³; NOx-80ug/m³, outside the factory premises at the periphery of the industry.

Standards for the other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009.

Noise Levels:

Day time: (6 AM to 10 PM) - 75 dB(A)

Night time : (10 PM to 6 AM) - 70 Db(A)

7. The industry shall not produce beyond the permitted capacity as mentioned in this order, without obtaining prior CPE & CPO of the Board.
8. The industry shall ensure regular maintenance and operation of the on-line stack monitoring systems and CAAQM stations with tamper proof mechanism having facilities for online calibration.
9. The industry shall maintain interlocking system for air pollution control equipments provided with raw materials feeding system so that the feeding of raw materials would be stopped in case the air pollution control equipment fails.
10. Raw materials shall be stored under closed sheds.
11. The industry shall maintain 25% additional capacity of Bag filters and ESPs.
12. The industry shall ensure implementation of the requisite measures to prevent air pollution in the surrounding area.
13. The industry shall provide adequate dust collection and extraction system to control fugitive emissions at various transfer points and the dust collected from pollution control equipments should be recycled back into the process. The compliance status should be reported to R.O. Kurnool.
14. The industry shall maintain and submit the records of daily operating hours of kiln, ESP and reasons for ESP tripping to R.O. Kurnool on monthly basis.
15. The cement concrete roads in the plant area shall be properly maintained to prevent dust emissions.
16. The industry should maintain the records on the clinker production, utilized for cement production and stocks maintained at on site and should submit consolidated reports to the Regional Office of the Board.
17. The industry shall develop Thick green belt should be developed and maintained by the industry with tall growing trees in the vacant spaces of the unit.
18. The industry shall take proper measures for survival of the saplings planted.
19. The industry shall maintain RWH structure on the available up-stream portion of the plant site.

20. The industry shall maintain separate water meters with necessary pipeline for assessing the quantity of water used for each of the purposes mentioned below:
 - a. Industrial cooling, boiler feed
 - b. Domestic purposes
 - c. Processing, whereby water gets polluted and pollutants are easily biodegradable.
 - d. Processing, whereby water gets polluted and pollutants are not easily biodegradable.
21. The applicant should submit Environmental Statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1966 & amendments thereof.
22. The industry shall provide rain water harvesting structures on the available up-stream portion of the plant to recharge ground water.

SCHEDULE - C

[see rule 5(4)]

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

1. The following acceptance criteria shall be followed for utilization of Hazardous waste in the rotary kiln.

Specification of HW for use as Alternative raw material:

Parameter	Limit
Volatile Organic Hydrocarbon	<5000 ppm
Total Organic Carbon (TOC)	<1000ppm
CaO+SiO ₂ +Al ₂ O ₃ +Fe ₂ O ₃ +SO ₂ (In Ash)	>80%
Chloride	<1.5%
Sulphur	<1.5%
PCB/PCT (ppm)	<5.0
Heavy Metals (ppm)	
Hg	<10
Cd+Ti+Hg	<100
As+Co+Ni+Se+Te+Sb+Cr+Sn+Pb+V	<10,000

Specification of HW for use as use of energy recovery:

Parameter	Limit
Calorific value as received basis	>2500 K Cal/Kg
Ash	
Liquid	<5%
Solid	<20%
Chloride	<1.5%
Halogens (F+Br+I)	<1.0%
Sulphur	<1.5%
PCB/PCT (ppm)	<50
Heavy Metals (ppm)	
Hg	<10
Cd+Ti+Hg	<100
As+Co+Ni+Se+Te+Sb+Cr+Sn+Pb+V	<10,000
pH	4 to 12
Viscosity (cSt) for liquid	<100
Flash Point (Deg.Centigrade) (for liquid)	>60

2. The industry should obtain approval from CPCB for co-processing of the above types of hazardous wastes as per Rule 11 of Hazardous wastes (M, H & TM) Rules, 2008.
3. The industry shall feed the liquids only through main burners in the high combustion zone. The liquid feed system to the pre-calculator shall be disconnected. The operations with respect to semi-liquid feed system are carried out in closed system only. Only diesel is used for heating requirements of the system.
4. Only the permitted alternate fuels should be used for the co-processing.
5. The industry should follow the guidelines for labeling, transportation, storage and disposal of hazardous waste.
6. The wastes of high calorific value have to be always fed into the high temperature combustion zones of the Kiln system. Such waste containing stable toxic components should be fed to the main burner to ensure complete combustion in the high temperature and long retention time.
7. The industry shall take all safety measures to prevent accidents while handling the hazardous wastes.


8. The industry shall take all precautionary measures to prevent odour nuisance and spillages while handling the hazardous wastes.
9. The industry shall provide dyke walls for storage tanks / areas to contain spillages.
10. The industry shall follow the guidelines of CPCB on co-processing of hazardous wastes in the cement plants and submit compliance to the RO-Kurnool within a month.
11. Monthly emission monitoring reports should be submitted to all the critical parameters in the CPCB guidelines for co-processing of hazardous wastes.
12. The industry should give top priority for waste minimization and cleaner production practices.
13. The industry should not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.
14. The industry should store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal.
15. The industry should dispose Used Lead Acid Batteries to the manufacturers / dealers on buyback basis.
16. The industry should take necessary practical steps for prevention of oil spillages and carry over of oil from the premises.
17. The industry should maintain 6 copy manifest system for transportation of waste generated and a copy should be submitted to Board Office and concerned Regional Office.
18. The industry should maintain good house keeping & maintain proper records for Hazardous Wastes stated in Authorisation.
19. The industry should maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.
20. The industry should dispose of e-waste to the authorized recyclers only.
21. The unit should submit the condition wise compliance report of the conditions stipulated in Schedule B and Schedule C of this order on half yearly basis to Board Office, Hyderabad and concerned Regional Office.

Sd/-
MEMBER SECRETARY

To
M/s Zuari Cements Ltd.,
Krishna Nagar, Yerraguntla,
Kadapa District - 516311.

//T.C.F.B.O//

Kulao
18/3/15
JOINT CHIEF ENVIRONMENTAL ENGINEER
(UH-IV)

	ANDHRA PRADESH POLLUTION CONTROL BOARD
	ZONAL LABORATORY
	1st Floor, Shankar Shopping Complex, Krishna Nagar main road, Kurnool - 518 002

REPORT BY THE STATE BOARD ANALYST
 Form IV
 (See rule 14)

Report No. Y14D013/APPCCB/ZL/KNL/AIR/2014-

Date: 16/12/2014

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 12/12/2014 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Calciner and Raw mill-2 of (Line-I) of M/s. Zuari Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/12/2014 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	46	100

The condition of the seals, fastening and container on receipt was as follows:

INTACT

Remarks:

1. The industry was manufacturing clinker & cement. During monitoring all process units were in operation except cement mill 2 & 3.
2. Bag house is provided to control dust emissions from raw mill and calciner of line -I and were working during monitoring.
3. The height of the stack attached to raw mill and calciner line - I is 128 meters.
4. The SPM concentration in flue gas is within the standard stipulated in the consent order.

Signed this: 16/12/2014

Address:

B. Nagi Reddy,
 Senior Environmental Scientist,
 A.P. Pollution Control Board,
 Zonal Laboratory,
 Kurnool.


 Board Analyst

To

The Environmental Engineer,
 APPCB, Regional Office,
 Tirupathi.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)Report No. Y14D014/APPCB/ZL/KNL/AIR/2014-Date: 16/12/2014

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 12/12/2014 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Cooler ESP (Line-1) of M/s. Zuari Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/12/2014 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	32	100


The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry was manufacturing clinker & cement. During monitoring all process units were in operation except cement mill 2 & 3.
2. ESP is provided as air pollution control equipment to control dust emissions and was working during monitoring.
3. The height of the stack attached to cooler is 60 meters.
4. The SPM concentration in flue gas is within the standard stipulated in the consent order.

Signed this: 16/12/2014

Address:B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.
Board Analyst**To**The Environmental Engineer,
APPCB, Regional Office,
Tirupathi.

	ANDHRA PRADESH POLLUTION CONTROL BOARD
	ZONAL LABORATORY
	1st Floor, Shankar Shopping Complex, Krishna Nagar main road, Kurnool - 518 002

REPORT BY THE STATE BOARD ANALYST
Form IV
(See rule 14)

Report No. Y14D015/APPCB/ZL/KNL/AIR/2014-

Date: 16/12/2014

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 12/12/2014 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Coal mill-2 of (Line-1) of M/s. Zuarl Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/12/2014 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	18	100

The condition of the seals, fastening and container on receipt was as follows:

INTACT

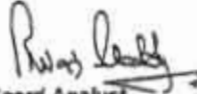
Remarks:

1. The industry was manufacturing clinker & cement. During monitoring all process units were in operation except cement mill 2 & 3.
2. Bag house is provided as air pollution control equipment to control dust emissions and was working during monitoring.
3. The height of the stack attached to coal mill -2 is 32 meters.
4. The SPM concentration in flue gas is within the standard stipulated in the consent order.

Signed this: 16/12/2014

Address:

B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.


Board Analyst

To

The Environmental Engineer,
APPCB, Regional Office,
Tirupathi.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**Form IV
(See rule 14)Report No. Y14D016/APPCB/ZL/KNL/AIR/2014-Date: 16/12/2014

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 12/12/2014 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Rotary kiln and Raw mill -1 of (Line-1) of M/s. Zuari Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/12/2014 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	11	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry was manufacturing clinker & cement. During monitoring all process units were in operation except cement mill 2 & 3.
2. Bag house is provided as air pollution control equipment to control dust emissions and was working during monitoring.
3. The height of the stack attached to kiln and raw mill is 70 meters.
4. The SPM concentration in flue gas is within the standard stipulated in the consent order.

Signed this: 16/12/2014

Address:B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.
Board Analyst**To**The Environmental Engineer,
APPCB, Regional Office,
Tirupathi.

	ANDHRA PRADESH POLLUTION CONTROL BOARD
	ZONAL LABORATORY
	1st Floor, Shankar Shopping Complex, Krishna Nagar main road, Kurnool - 518 002

REPORT BY THE STATE BOARD ANALYST
Form IV
(See rule 14)

Report No. Y14D019/APPCB/ZL/KNL/AIR/2014-

Date: 16/12/2014

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 12/12/2014 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to lime stone crusher of M/s. Zuari Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/12/2014 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	26	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT

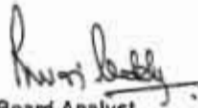
Remarks:

1. The industry was manufacturing clinker & cement. During monitoring all process units were in operation except cement mill 2 & 3.
2. Bag filter is provided as air pollution control equipment to control dust emissions and was working during monitoring.
3. The height of the stack attached to crusher is 30 meters.
4. The SPM concentration in flue gas is within the standard stipulated in the consent order.

Signed this: 16/12/2014


Address:

B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.


Board Analyst

To

The Environmental Engineer,
APPCB, Regional Office,
Tirupathi.

	ANDHRA PRADESH POLLUTION CONTROL BOARD
	ZONAL LABORATORY 1st Floor, Shankar Shopping Complex, Krishna Nagar main road, Kurnool - 518 002

REPORT BY THE STATE BOARD ANALYST
Form IV
(See rule 14)

Report No. Y14D020/APPCB/ZL/KNL/AIR/2014-

Date: 16/12/2014

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 12/12/2014 from Analyst Gr-J, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Kiln, Raw mill-2 and cooler of (line-2) of M/s. Zuari Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/12/2014 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	17	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT

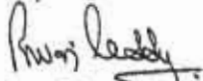
Remarks:

1. The industry was manufacturing clinker & cement. During monitoring all process units were in operation except cement mill 2 & 3.
2. Bag house is provided as air pollution control equipment to control dust emissions and was working during monitoring.
3. The height of the common stack attached to kiln, raw mill and cooler is 134 meters.
4. The SPM concentration in flue gas is within the standard stipulated in the consent order.

Signed this: 16/12/2014

Address:

B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.


Board Analyst

To

The Environmental Engineer,
APPCB, Regional Office,
Tirupathi.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**
Form IV
(See rule 14)Report No. Y14D021/APPCB/ZL/KNL/AIR/2014-Date: 16/12/2014

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 12/12/2014 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Coal mill-3 of (line-2) of M/s. Zuari Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/12/2014 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	27	50

The condition of the seals, fastening and container on receipt was as follows:

INTACT

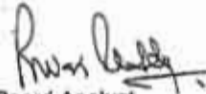
Remarks:

1. The industry was manufacturing clinker & cement. During monitoring all process units were in operation except cement mill 2 & 3.
2. Bag house is provided as air pollution control equipment to control dust emissions and was working during monitoring.
3. The height of the stack attached to coal mill - 3 is 35 meters.
4. The SPM concentration in flue gas is within the standard stipulated in the consent order.

Signed this: 16/12/2014

Address:

B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.


Board Analyst

To :

The Environmental Engineer,
APPCB, Regional Office,
Tirupathi.



ANDHRA PRADESH POLLUTION CONTROL BOARD
ZONAL LABORATORY
1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002

REPORT BY THE STATE BOARD ANALYST
Form IV
(See rule 14)

Report No. Y14D022/APPCB/ZL/KNL/AIR/2014-

Date: 16/12/2014

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 12/12/2014 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Cement mill-1 of M/s. Zuari Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/12/2014 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	48	100

The condition of the seals, fastening and container on receipt was as follows:

INTACT

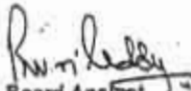
Remarks:

1. The industry was manufacturing clinker & cement. During monitoring all process units were in operation except cement mill 2 & 3.
2. Bag house is provided as air pollution control equipment to control dust emissions and was working during monitoring.
3. The height of the stack attached to cement mill -1 is 35 meters.
4. The SPM concentration in flue gas is within the standard stipulated in the consent order.

Signed this: 16/12/2014

Address:

B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.


Board Analyst

To

The Environmental Engineer,
APPCB, Regional Office,
Tirupathi.

**ANDHRA PRADESH POLLUTION CONTROL BOARD****ZONAL LABORATORY**1st Floor, Shankar Shopping Complex, Krishna Nagar main road,
Kurnool - 518 002**REPORT BY THE STATE BOARD ANALYST**

Form IV

(See rule 14)

Report No. Y14D023/APPCB/ZL/KNL/AIR/2014-Date: 16/12/2014

I hereby certify that I, B. Nagi Reddy, State Board Analyst duly appointed under sub - section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981, received a stack sample on the day of 12/12/2014 from Analyst Gr-I, Zonal Laboratory, APPCB, Kurnool a sample of Stack attached to Cement mill - 4 of M/s. Zuari Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district for analysis. The sample was in a condition fit for analysis reported below.

I further certify that I have analysed the aforementioned sample on 16/12/2014 and declare the result of the analysis to be as follows:

Parameter	Method No.	Concentration in mg/Nm ³	Emission Standard in mg/Nm ³
Suspended Particulate Matter (SPM)	IS:11225 (Part-1)1985	34	50


The condition of the seals, fastening and container on receipt was as follows:

INTACT**Remarks:**

1. The industry was manufacturing clinker & cement. During monitoring all process units were in operation except cement mill 2 & 3.
2. Bag house is provided as air pollution control equipment to control dust emissions and was working during monitoring.
3. The height of the stack attached to cement mill-4 is 55 meters.
4. The SPM concentration in flue gas is within the standard stipulated in the consent order.

Signed this: 16/12/2014

Address:B. Nagi Reddy,
Senior Environmental Scientist,
A.P. Pollution Control Board,
Zonal Laboratory,
Kurnool.
Board Analyst**To**The Environmental Engineer,
APPCB, Regional Office,
Tirupathi.

	ANDHRA PRADESH POLLUTION CONTROL BOARD
	ZONAL LABORATORY 1st Floor, Shankar Shopping Complex, Krishna Nagar main road, Kurnool - 518 002

AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Sample Reg. No.	: Report No.Y14D017/APPCB/ZL/KNL/AIR/2014-	
Sampling Location	: M/s. Zuari Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district.	
Sampling point	: AAQM conducted at periphery of the unit on west direction near security office	
Sample height from ground level	: 1 meter	
Sampling site is in up wind or downwind of the source	: Downwind	
Purpose of sampling	: Compliance monitoring	
Sample collected by	: Analyst Gr-I, Zonal Laboratory, Kurnool	
Sampling Date	: 09/12/2014 & 10/12/2014	
Sample Submit date	: 12/12/2014	
Sample analysed on	: 16/12/2014	
Date of issue of report	: 16/12/2014	
Parameters & Test Method No.	24 hrs. average values in $\mu\text{g}/\text{m}^3$	Emission Standard in $\mu\text{g}/\text{m}^3$
Respirable Particulate Matter (PM10) (IS 5182 (part 23): 2006)	135	100


Remarks:

1. The industry is manufacturing clinker & cement. During monitoring all process units were in operation, except cement mill 2 & 3.
2. The AAQ monitoring was carried out at periphery of the unit on west direction near security office on downwind direction.
3. The industry is surrounded by open lands on north, east and west direction, residential colony on south direction.
4. During monitoring water sprinkling was carried out on roads with movable water tanker.
5. Particulate matter (PM10) is exceeding the National Ambient Air Quality Standards. (NAAQS).

B. Nagi Reddy 16/12

B. NAGI REDDY
SENIOR ENVIRONMENTAL SCIENTIST

+++ End of the Report +++

	ANDHRA PRADESH POLLUTION CONTROL BOARD
	ZONAL LABORATORY
	1st Floor, Shankar Shopping Complex, Krishna Nagar main road, Kurnool - 518 002


AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Sample Reg. No.	: Report No.Y14D018/APPCB/ZL/KNL/AJR/2014-
Sampling Location	: M/s. Zuari Cement Ltd, Krishnanagar, Yerraguntla, Kadapa district.
Sampling point	: AAQM conducted at mines garage on east direction
Sample height from ground level	: 1.5 meter
Sampling site is in up wind or downwind of the source	: upwind
Purpose of sampling	: Compliance monitoring
Sample collected by	: Analyst Gr-I, Zonal Laboratory, Kurnool
Sampling Date	: 09/12/2014 & 10/12/2014
Sample Submit date	: 12/12/2014
Sample analysed on	: 16/12/2014
Date of Issue of report	: 16/12/2014

Parameters & Test Method No.	24 hrs. average values in $\mu\text{g}/\text{m}^3$	Emission Standard in $\mu\text{g}/\text{m}^3$
Respirable Particulate Matter (PM10) (IS 5182 (part 23): 2006)	92	100

Remarks:

1. The industry is manufacturing clinker & cement. During monitoring all process units were in operation, except cement mill 2 & 3.
2. The AAQ monitoring was carried out at mines garage on east direction on upwind direction.
3. The industry is surrounded by open lands on north, east and west direction, residential colony on south direction.
4. During monitoring water sprinkling was carried out on roads with movable water tanker.
5. Particulate matter (PM10) is within the National Ambient Air Quality Standards. (NAAQS).


 B. NAGI REDDY
 SENIOR ENVIRONMENTAL SCIENTIST

+++ End of the Report +++

Vimta Labs Limited
 Registered Office
 142, IDA Phase II, Cherlapally
 Hyderabad-500 051, India
 T: +91 40 2726 4141
 F: +91 40 2726 3657

Vimta
 Driven by Quality, Inspired by Science.

ISSUED TO:
 ZIJARI CEMENT LIMITED
 Krishna Nagar, P.O. Yarraguntla,
 Kadapa,
 Andhra Pradesh-516311

Report Number : 13962/15-16/VLL/000/01
 Issue Date : 2015-11-18
 Your Ref : 4500039706
 and Date : 2015-07-15

KIND.ATTN: Mr. Madhava Reddy

Page 1 of 3

Sample Particulars: SOURCE EMISSION MONITORING FOR LINE-4 STACK ATTACHED TO KILN

Sample Registration Date : 2015-11-02 Sampling Date : 2015-10-30
 Analysis starting date : 2015-11-02 Analysis Completion Date : 2015-11-16

Test Required: PM, SO₂, NO_x, HF, HCL, CO, VOC, PAH, Benzene.

TEST RESULTS

Sl. No.	PARAMETERS	UOM	METHOD	RESULTS
1	Diameter of stack	m	-	11.2
2	Flue gas temperature	°C	-	159
3	Velocity	m/s	USEPA METHOD 1 & 2	3.9
4	Gas flow rate	Nm ³ /sec	USEPA METHOD 1 & 2	247.9
5	Gas flow rate	Nm ³ /hr	USEPA METHOD 1 & 2	892547.8
6	Oxygen	%	Gas Analyzer	11.9
7	Particulate Matter	mg/Nm ³	USEPA METHOD -05	6.8
8	SO ₂	mg/Nm ³	USEPA Method-6	2.8
9	NO _x	mg/Nm ³	USEPA Method-7	485.6
10	HF	mg/Nm ³	USEPA -13 A	0.8
11	HCL	mg/Nm ³	USEPA - 26	7.6
12	Carbon Monoxide	mg/Nm ³	Gas Analyzer	280.9
13	Carbon Dioxide	%	Gas Analyzer	7.8
14	VOC	µg/Nm ³	USEPA METHOD 25	<0.01
15	PAH	µg/Nm ³	USEPA METHOD 23	<0.01
16	Benzene	µg/Nm ³	USEPA METHOD 25	<0.01

All the Results are corrected to 10% O₂
 Method of Testing: As per USEPA Methods
 Results given are on Dry Basis.


 Dr. Subba Reddy Mallampati
 Sr Scientist- Environment

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ISSUED TO:
ZUARI CEMENT LIMITED
 Krishna Nagar, P.O. Yarragunta,
 Kadapa,
 Andhra Pradesh-516311

Report Number : 13982/15-16/VLL/000/01
 Issue Date : 2015-11-16
 Your Ref : 4500038706
 and Date : 2015-07-15

KIND.ATTN: Mr. Madhava Reddy

Page 2 of 3


Sample Particulars: SOURCE EMISSION MONITORING FOR LINE-II STACK ATTACHED TO KILN

Sample Registration Date : 2015-11-02	Sampling Date : 2015-10-30
Analysis starting date : 2015-11-02	Analysis Completion Date : 2015-11-16
Test Required: Metals, Mercury, Thallium and Cadmium.	
SAMPLE COLLECTED BY VIMTA LABS LTD	LAB REF: EC

TEST RESULTS

SL No.	PARAMETERS	UOM	METHOD	Results
1	Diameter of stack	m	-	11.2
2	Flue gas temperature	°C	-	159
3	Velocity	m/s	USEPA METHOD 1 & 2	3.9
4	Gas flow rate	Nm ³ /s	USEPA METHOD 1 & 2	247.9
5	Chromium as Cr	mg/Nm ³	USEPA METHOD 29	0.013
6	Manganese as Mn	mg/Nm ³	USEPA METHOD 29	0.070
7	Mercury as Hg	mg/Nm ³	USEPA METHOD 29	0.006
8	Cadmium as Cd	mg/Nm ³	USEPA METHOD 29	0.015
9	Thallium as Tl	mg/Nm ³	USEPA METHOD 29	0.028
10	Cadmium as Cd + Thallium as Tl	mg/Nm ³	USEPA METHOD 29	0.043
11	Arsenic as As	mg/Nm ³	USEPA METHOD 29	0.008
12	Antimony as Sb	mg/Nm ³	USEPA METHOD 29	0.024
13	Lead as Pb	mg/Nm ³	USEPA METHOD 29	0.044
14	Cobalt as Co	mg/Nm ³	USEPA METHOD 29	0.004
15	Copper as Cu	mg/Nm ³	USEPA METHOD 29	0.019
16	Nickel as Ni	mg/Nm ³	USEPA METHOD 29	0.013
17	Vanadium as V	mg/Nm ³	USEPA METHOD 29	0.054
18	Zinc as Zn	mg/Nm ³	USEPA METHOD 29	0.038

All the Results are corrected to 10% O₂
 Method of Testing: As per USEPA Methods
 Minimum Detectable Limit for Metals < 0.0001 mg/Nm³
 Results given are on Dry Basis.


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ISSUED TO:
ZUARI CEMENT LIMITED
 Krishna Nagar, P.O. Yerraguntla,
 Kadapa,
 Andhra Pradesh-516311

Report Number : 13962/15-16/VLL/000/01
 Issue Date : 2015-11-16
 Your Ref : 4800039706
 and Date : 2015-07-15

KIND.ATTN: Mr. Madhava Reddy

Page 3 of 3

Sample Particulars: SOURCE EMISSION MONITORING FOR LINE-II STACK ATTACHED TO KILN

Sample Registration Date : 2015-11-02	Sampling Date : 2015-10-30
Analysis starting date : 2015-11-02	Analysis Completion Date : 2015-11-16
Quantity received: 1No. Dragger tube, Filter paper, Line washings;	
Tests required: PCDD and PCDF;	
SAMPLE COLLECTED BY VIMTA LABS LTD	
LAB REF.: EC	

TEST RESULTS

Sl. No.	PARAMETERS	UOM	Results
EMISSION RATES			
1	Diameter of Duct	m	11.2
2	Flue gas temperature	°C	159
3	Velocity	m/sec	3.9
4	Volumetric flow rate	m ³ /Sec	247.9
EMISSION RATES			
1	2,3,7,8-TCDF	ng/Nm ³ , TEQ	0.00058
2	1,2,3,7,8-PeCDF	ng/Nm ³ , TEQ	0.00026
3	2,3,4,7,8-PeCDF	ng/Nm ³ , TEQ	0.00036
4	1,2,3,4,7,8-HxCDF	ng/Nm ³ , TEQ	0.00040
5	1,2,3,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.00057
6	2,3,4,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.00070
7	1,2,3,7,8,9-HxCDF	ng/Nm ³ , TEQ	0.00019
8	1,2,3,4,6,7,8-HpCDF	ng/Nm ³ , TEQ	0.00042
9	1,2,3,4,7,8,9-HpCDF	ng/Nm ³ , TEQ	0.00083
10	OCDF	ng/Nm ³ , TEQ	0.00045
11	2,3,7,8-TCDD	ng/Nm ³ , TEQ	0.00062
12	1,2,3,7,8-PeCDD	ng/Nm ³ , TEQ	0.00024
13	1,2,3,4,7,8-HxCDD	ng/Nm ³ , TEQ	0.00062
14	1,2,3,6,7,8-HxCDD	ng/Nm ³ , TEQ	0.00073
15	1,2,3,7,8,9-HxCDD	ng/Nm ³ , TEQ	0.00019
16	1,2,3,4,6,7,8-HpCDD	ng/Nm ³ , TEQ	0.00075
17	OCDD	ng/Nm ³ , TEQ	0.00086
Total Furans & Dioxins		ng/Nm³, TEQ	0.00676

All the Results are corrected to 10% O₂
 Method of Testing: As per USEPA 213 A & 8260
 Instruments used: Auto spec Premier (IRGC/HRMS), Detection Limit: 0.01pg/ Nm³
 Results given are on Dry Basis

Dr. Subba Reddy Mallampati
 Sr Scientist- Environment

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 CIN : L24110TG1990PLC011977

Shweta Narayan v. Union of India and Ors.
[O.A. 178 of 2014]

State Pollution Control Boards	Grant and Renewal of registration/authorisation Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Emission Monitoring & Compliance Rule 6, 18, 24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Inventorisation of Waste Rule 5(6) 8,(7)& 22(3) & Schedule VIII r/w Rule 23 of the Hazardous Waste Rules, 2008	Training and Awareness Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Valid Recognition of Environmental Laboratories Section 12 of the EPA, 1986	Identification of site for TSDF Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Compliance with the EIA Notification of 2006
Andhra Pradesh R-10 -324-	3 cement plants in the State have been issued regular permission by the CPCB. They are M/s. Ultratech Cement Ltd., Anantapur; M/s. Zuari Cement Ltd., Kadapa and M/s, Bharathi Cement Corporation Private Ltd., Kadapa. Details submitted separately.(Annexure - A)	The industries carried out monitoring with NABL accredited laboratories/MOEF recognized laboratories. The copies of the reports are enclosed. The Board monitored data is also enclosed. (Annexure-B)	APPCB has carried out the fresh Hazardous Waste Inventory with reference to the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 through M/s. Centre for Environment and Development, Tiruvantapuram, M/s. Green Origin Ventures Pvt. Ltd., Punjagutta, Hyderabad and M/s Lahmeyer GKW Consult GmbH ,Germany under world bank project.	The Board in association with IIT, Mumbai conducted training programme for the Board officials on "Pharma Industry - Environmental Management in Pharma Industry".	The Board Laboratory is now with Telangana State Pollution Control Board. The APPCB is not having accredited laboratory. NABL accreditation is under process. Meanwhile monitoring is being done by Zonal laboratories of APPCB.	Coastal Waste Management Project(CWMP), Visakhapatnam is operating TSDF facility. The CFO of the facility is valid upto 31.05.2016.	As per 7(d) of Schedule of EIA notification, 2006 states that the common Integrated Hazardous Waste, Treatment, Storage and Disposal Facilities(TSDF) having incineration and landfill or incineration alone shall require Environmental Clearance from MoEF, Gol.

			<p>As per the Hazardous Waste inventory carried out in 2014, the generation of hazardous waste from 1924 industries is as follows (Per annum)</p> <p>Land fillable : 1,37,271.20 TPA</p> <p>Recyclable : 3,46,574.86 TPA</p> <p>Incinerable : 75,088.06 TPA</p>	<p>The Board is also deputing officials to various training programmes conducted by CPCB and other reputed institutes / agencies on management of Hazardous waste.</p>			<p>Whereas the co-incineration is being done in Cement Plants of A.P. which are already having Environmental clearances.</p>
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ANDHRA PRADESH POLLUTION CONTROL BOARD

Paryavarana Bhavan, A-III, Industrial Estate,

Sanathnagar, Hyderabad-500 018

Phone : 040-23887500

Website : www.appcb.ap.nic.in

SPEED POST

Lr. No. APPCB/UH:IV/HMW/NGT/178 of 2014/HO/2016-

Dt. 10.02.2016.

To

The Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan,
CBD-cum-Office Complex East Arjun Nagar,
DELHI - 110 032.

Sir,

Sub: APPCB - UH:IV - HWM - Meeting on Co-processing of wastes in cement kiln - Hon'ble NGT order - Original application No. 178 of 2014 - Information communicated - Reg.

Ref: 1. CPCB letter No.b-33014/7/2016/PCI-II, DT. 01.02.2016.
2. CPCB letter No. B-33014/7/2016/PCI-II, dt 03.02.2016.
3. Meeting held on 08.02.2016 in Delhi.
4. Email dt.09.02.2016 received from Addl. Director/Sc.E, CPCB, Delhi

With reference to the above, it is to inform that the letter pertaining to the above matter was received by the Telangana State Pollution Control Board (TSPCB) and hence the Andhra Pradesh Pollution Control Board (APPCB) could not be deputed Board officials to the meeting. It was informed that information is requested in prescribed format by CPCB. A copy of the format was given to the Board by TSPCB on 09.02.2016. It is also noted that the matter is listed for hearing on 24.02.2016.

In this connection, information pertaining to APPCB is herewith enclosed in the prescribed format along with enclosures for information and for taking further necessary action.

Encl : as above

Yours faithfully,

Sd/-
MEMBER SECRETARY

Copy to:

1. The Additional Director / Sc.E.(Sri P.K.Gupta), Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, DELHI - 110 032 for information and further necessary action (email: pkg64us@yahoo.com).
2. Sri Nikhil Nayyar, Advocate, Standing Counsel of APPCB, D-131, Panchsheel Enclave, New Delhi - 110017.
3. The JCEE, UH:III, APPCB, HO for information and necessary action.

//T.C.F.B.O.//

Sd/-
Joint Chief Environmental Engineer
UH-IV

The Status of Co-processing of Hazardous Waste in Cement units in Andhra Pradesh

Sno.	Name and address of the industry	Name of the Hazardous waste for which permission granted	Regular permission	Consent status	Qty. of Hazardous waste handled in 2015
1.	M/s. Ultra Tech Cement Ltd., Ananthapur District	Solid and liquid spent organic solvents ETP bio waste, WTP sludge and spent carbon of soft drink industry; paint sludge, phosphate sludge, grinding dust, oily rags and ETP sludge of auto mobile industry; ETP sludge of textile industry; spent catalyst and refinery sludge of refinery industry. Date expired, discarded & off specification Drugs/ medicines (pharmaceutical industries); Process / distillation residues and wastes (pharmaceutical industries); Process wastes & Residues(Pesticides/ Agro chemical industries); Chemical ETP Sludge (Agro chemical industries); Spent Carbon (Pharmaceutical industries); Dismantled Lube / Fuel oil filter (Diesel loco shed); Waste/ residues (sludge from process) and filters & filter materials (polymer industries)	CPCB order No. B-33014/H-8/2009/PCI-II/8535-37, dt.13.08.2010. Amendment Order No.2014/AT-CP/10/PCI-II/3996 dt.28.07.2013 CPCB order No. 2014/AT-CP/RP/PCI-II/91 dt.30.03.2015 CPCB order No. B-33014/2015/PCI-II/4825 dt.28.09.2015	CFO & HWA valid upto 30.09.2016	ETP sludge (soft drink industry) – 104.9 MT Spent carbon (soft drink industry) – 190.05 MT WTP sludge (soft drink industry) – 113.83 T Liquid Organic residue (Pharma industry) – 39.88 T Total : 448.66 MT
2.	M/s. Bharathi Cement Corporation Ltd., Kamalapuram (M), Kadapa District	Solid and liquid spent organic solvents ETP sludge (chemical industry); paint sludge (auto mobile industry); refinery sludge (petro chemical industry); spent carbon, ETP bio solid, WTP sludge (beverage industry); spent clay (reprocessing of used oil industry); spent carbon, mixed waste (distillation residue, residue & waste, spent catalyst, spent carbon & date expired medicines & off specification drugs) and date expired / discarded medicines (pharmaceutical industry).	CPCB order No. 33014/2012/PCI-II/2779 dt.27.06.2013 CPCB order no.B-33014 /2015/PCI-II/ dt.28.12.2015	CFO & HWA valid upto 30.09.2020	Liquid solvents – 9105 T Solid waste (Pharma industry) – 3136 T RDF – 9900 T Total: 22252 T
3.	M/s. Zuari Cements Ltd., Yerraguntal (M), Kadapa District	Distillation residue (both liquid and solid) and spent carbon (pharma industry)	CPCB order no.B-33014 /2015/PCI-II/9966 dt.08.09.2015	CFO & HWA valid upto 31.03.2018	Solid – 1071.6 T Liquid – 1095.8 T Spent Carbon – 285.1 T



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STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII

Bhubaneswar - 751 012, India

No. 2711 / IND-IV-HW-(MISC)-231

Dt. 11-02-2016 /

By Speed Post / E-mail : pkg64us@yahoo.com

To

The Addl. Director / Sc. E.
Central Pollution Control Board,
Ministry of Environment, Forests & Climate Change, Govt. of India
Parivesh Bhawan, East Arjun Nagar,
New Delhi - 110032

Kind Attn: Shri P. K. Gupta

Sub: Submission of information w.r.t. issues raised by the Applicant on 21-01-2016 on co-processing of wastes in cement kiln - Hon'ble NGT Order.

Ref.: Your letter no. B-33014/7/2016/PCI-II, dtd. 8th February, 2016.

Sir,

With reference to above, please find enclosed herewith the required information pertaining to State Pollution Control Board, Odisha in O.A. NO.178 OF 2014 - Shweta Narayan Vrs. Union of India and Others for further action at your end.

Yours faithfully

Encl.: As above.


Member Secretary

Memo No. _____ /

Dt. _____ / By E-mail

Copy forwarded to Sr. Law Officer, State Pollution Control Board, Odisha, Bhubaneswar for information and necessary action.


Member Secretary

**Information Pertaining to State Pollution Control Board, Odisha
In O. A. No. 178 of 2014 - Shweta Narayan Vrs. Union of India and Others.**

State Pollution Control Boards	Grant & Renewal of Registration / Authorization Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Emission Monitoring & Compliance Rule 6, 18, 24 and Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Inventorization of Waste Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Training and awareness Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Valid recognition of Environmental Laboratories under Section 12 of the EPA, 1986	Identification of site for TSDF Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Compliance with the EIA Notification of 2006
Odisha R-11	<ul style="list-style-type: none"> Granted authorisation to M/s ACC Ltd., Bargarh, Cement Works for co-processing of different hazardous / non-hazardous waste subject to permission from CPCB, New Delhi. The authorisation is valid up to 31-03-2020. (ANNEXURE R II/A I) However, this unit is only co-processing non-hazardous waste like ETP sludge of food processing unit, beverages unit; coal and iron ore fines of sponge iron units, rice husk from rice mills etc., and no regular co-processing of hazardous waste is being undertaken by this unit till date. This unit has applied for trial run of certain hazardous wastes in cement kiln. The application will be considered subject to permission is obtained from CPCB, New Delhi. 	<ul style="list-style-type: none"> M/s ACC Ltd., Bargarh has installed four nos. of online continuous stack monitoring system to monitor PM, NO, NO₂ & SO₂. The industry has also installed three nos. Online Continuous Ambient Air Quality System to monitor PM₁₀, PM_{2.5}, CO, NO, NO₂, & SO₂. These monitoring stations have been connected with the server of the Board for real time data transmission. The parameters mostly meet the stipulated norms. (ANNEXURE-14) R I/A 3 	<p>The category of hazardous waste and waste for co-processing has been indicated in the authorization order of M/s ACC Ltd., Bargarh. (ANNEXURE R I/A I)</p>	<ul style="list-style-type: none"> CPCB, New Delhi is organizing training programme for SPCB Officials at national level. Officials of SPCB, Odisha are regularly attending these training programmes. An awareness meeting was held on October 29, 2015 conducted by SPCB, Odisha to address various Environmental issues associated with Aluminium Smelters of Odisha. In the above said meeting M/s ACC Ltd., & M/s OCL India Ltd., has been instructed to develop a technologically viable model for co-processing of Spent Pot Lining (SPL) generated from their cement kiln after discussion with the Smelters. 	<p>Central laboratory of SPCB, Odisha was recognized by CPCB, New Delhi up to 24-03-2010. Renewal of recognition is under process to obtain ISO and OSHA certification.</p>	<p>One Common Hazardous Waste Treatment, Storage & Disposal Facility (CHWTSDF) has been established at Kanchichuan, Jajpur, Odisha operated by M/s Ramky Enviro Engineers Ltd. The facility has been commissioned in the year 2010-11 and has area of 70 acres. The facility has installed capacity of 40,000 T/A to handle hazardous waste. Authorization is granted to the facility up to 31-03-2020 by SPCB, Odisha. (ANNEXURE R I/A 5)</p>	<ul style="list-style-type: none"> M/s ACC Ltd., Bargarh has also obtained EC where a condition has been stipulated to make use of high calorific solid / hazardous waste as fuel in kiln. M/s ACC Ltd., Bargarh has been submitting half yearly report to SPCB, Odisha as per the requirement of E.C. conditions.

State Pollution Control Boards	Grant & Renewal of Registration / Authorization Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Emission Monitoring & Compliance Rule 6, 16, 24 and Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Inventory of Waste Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Training and awareness Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Valid recognition of Environment Laboratories under Section 12 of the EPA, 1986	Identification of site for TSDF Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Compliance with the EIA Notification of 2006
	<ul style="list-style-type: none"> Granted authorisation to M/s OCL India Ltd., (Cement Unit) without any provision for co-processing in cement kiln which is valid up to 31-03-2020. Presently they have applied for FMCG Trade Rejects which is not hazardous waste to co-process in their kiln. The application is under consideration and will be considered subject to CPCB guideline on co-processing. (ANNEXURE-R11/A2) 	<ul style="list-style-type: none"> M/s OCL India Ltd., (Cement Unit) has installed ten nos. of online continuous stack monitoring system to monitor PM, NO_x & SO_x. The industry has also installed four nos. Online Continuous Ambient Air Quality System to monitor PM₁₀, PM_{2.5}, CO, NO, NO₂, NO_x & SO₂. These monitoring stations have been connected with the server of the Board for real time data transmission. The parameters mostly meet the stipulated norms. (ANNEXURE-R11/A4) Till date M/s OCL India Ltd., (Cement Unit) has not conducted any en- 	<p>M/s OCL India Ltd., (Cement Unit) has not been authorized to co-process hazardous waste in their cement kiln. (ANNEXURE-R11/A2)</p>				<ul style="list-style-type: none"> M/s OCL India Ltd., (Cement Unit) has also obtained EC. A condition has been stipulated in the EC to make use of high calorific hazardous waste as fuel in kiln. M/s OCL India Ltd., (Cement Unit) has been submitting half yearly report to SPCB, Odisha as per the requirement of E.C. conditions. EC has been obtained by CHWTSDF for the current facility and also for expansion of the facility. This CHWTSDF does not have facility for incineration.



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STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]
Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII
Bhubaneswar - 751 012, Odisha

FORM 2
[See rules 5(4)]

GRANT OF AUTHORIZATION FOR GENERATION, HANDLING, COLLECTION, STORAGE, AND DISPOSAL OF HAZARDOUS WASTE

- Number of authorization IND-IV-HW-292/ 11843 and date of issue 09.07.15/2015.
- M/S ACC LIMITED, BARGARH CEMENT WORKS is hereby granted revised an authorization in supersession of order no. IND-IV-HW-292/19002 Dt. 15.11.2011 to operate a facility for collection, reception, treatment, storage and disposal of hazardous waste on the premises situated at-CEMENT NAGAR, PO-BARDOL, DIST-BARGARH.
- The authorization shall be in force for a period up to 31.03.2020.
- The authorization is subject to the conditions stated below and the conditions as may be specified in the Rules for the time being in force under the Environment (Protection) Act, 1986.
- The applicant shall handle hazardous waste as specified below:

Sl. No.	Stream	Schedule	Waste Description	Quantity /A	Disposal
1	2	3	4	5	6
1.	5.1	1	Used Oil	50 KL	Storage in impervious pits / containers under covered shed followed by sale to registered recycler / re-processor
2.	5.2	1	Waste containing oil	-	Storage in impervious pits / containers under covered shed followed by sale to registered recycler / re-processor / disposal in authorized HW incinerator / Common Hazardous Waste Treatment Storage Disposal Facility (CHWTSDF)
3.	34.2	1	Spent resin from DM plant	200 gm	Storage in impervious pits under covered shed followed by final disposal in SLF / CHWTSDF
4.	Paint Sludge from automobile Industry				Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
5.	Chemical Sludge from automobile Industry				Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
6.	Phosphate Sludge from automobile Industry				Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
7.	Oily Rags from automobile Industry				Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.

8.	Grinding Dust from automobile industry	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
9.	Grinding Muck from Textile Machine Manufacturing Industry	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
10.	Grinding Dust from Rolling bearing & steel industry	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
11.	ETP Bio Solid from Soft Drink Industry	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
12.	Spent Carbon from Soft Drink Industry	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
13.	WTP Sludge from Soft Drink Industry	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
14.	Plastic & Laminates from Consumer Goods industry	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
15.	Expired Consumer Products from Consumer Goods industry	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
16.	TDI Tar from Chemicals Industry	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
17.	ETP Sludge from Chemicals industry	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
18.	Petroleum Refining Sludge from Petroleum Refinery	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
19.	Plastic Waste from Municipality	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.
20.	Tyre Chips from Vendors/ Tyre Manufacturers	Reception, storage and disposal through co-processing after obtaining due permission from CPCB & SPCB.

TERMS AND CONDITIONS OF AUTHORIZATION

GENERAL CONDITIONS

1. This authorization does not permit you to either receive and process or generate hazardous waste in case validity of Consent to Operate of your unit ceases. However you can carry out handling, storage, treatment, transport and disposal of hazardous waste generated previously during such period to avoid accumulation of hazardous waste.
2. Authorization granted herewith does not relieve you in complying with other provision laid down under Water (PCP) Act, 1974, Air (PCP) Act, 1981 and Environment (Protection) Act, 1986, and the Rules made there under.
3. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
4. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes without obtaining prior, permission of the State Pollution Control Board.
5. Any unauthorized change in personnel, equipment as working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.

Page # 2/4

- 296 ✓
6. It is the duty of the authorized persons to take prior permission of the State Pollution Control Board to close down the facility.
 7. An application for the renewal of an authorization shall be made as laid down under these Rules.
 8. Any other conditions for compliance as per the Guidelines issued by the MoEF or Central Pollution Control Board.
 9. This authorization is subject to statutory and other clearances from Govt. of Orisha and / or Govt. of India as and when applicable.
 10. In case the quantity of generation of hazardous Waste exceeds the Authorized quantity, the unit shall apply for amendment of Authorization order.

SPECIAL CONDITIONS

1. The mine / Industry shall strictly comply to the provisions of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 and amendments made thereafter.
2. Annual returns in Form - 4 (See Rules- 5(6) & 22(2)) shall be submitted to the Board for the financial year by 30th June of every year. It shall contain the detail quantities of generation, storage and disposal of different type of hazardous wastes such as recyclable, Incinerable and land disposable.
3. Steps shall be taken for reduction and prevention of the hazardous waste generated or for recycling or reuse.
4. Environmental Information with respect to Air, Water, Hazardous Waste and Hazardous Chemicals shall be displayed at the main gate for public view.
5. Transportation of hazardous waste shall be done in accordance with the provisions of the Rules-20 & the Rules made by the Central Government under the Motor Vehicle Act, 1988 and other guidelines issued from time to time in this regard. Manifest system (Movement document) shall be strictly followed as per Rule-21. The unit / mine shall check the authenticity of the way bill of the transport vehicle to ensure supply of hazardous waste to the authorized destination.
6. The hazardous waste shall be sold if required only to genuine recycler / re-processor having valid authorization and registration from the State Pollution Control Board, Odisha and concerned SPC Board. In case the hazardous waste is proposed to be utilized as a supplementary resource or for energy recovery, or after processing shall be carried out by the units only after obtaining approval from the Central Pollution Control Board and authorization from SPCB, Odisha.
7. All the hazardous waste shall be stored in impervious pits / containers under covered shed with adequate capacity having spill containment facility. The spilled hazardous waste shall be re-collected and stored in impervious pits / containers prior to sale / disposal. In no circumstances the hazardous waste shall be dumped in open area to avoid contamination to surrounding area.
8. The schedule of hazardous waste and the quantity as specified in column 1, 2, 3, 4 & 5 shall only be disposed off as per the stipulation prescribed under column 6.
9. The unit shall apply for renewal of authorization in Form-1, 120 days before expiry of this authorization order enclosing Annual Return in Form-4, Manifest copies in Form-5 and compliance to the conditions stipulated in this order along with adequate processing.
10. The unit shall provide an impervious lined pit for safe disposal of waste containing heavy metals to use as fuel in furnace for energy recovery, if it confirm to the specification as mentioned in schedule V, part-B of the notification.
11. The filters and filter materials containing oil shall not be burnt in open air.
12. Spent Resin from DM plant shall be disposed off in CHWT5DF or co-processed in cement kiln subject to statutory approval of CPCB.
13. The unit shall ensure that the waste characteristics should be similar to that for which trial run have been conducted by Central Pollution Control Board.
14. For transportation of proposed hazardous wastes for co-processing in cement kiln, Manifest system as per Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 and guidelines of Central Pollution Control Board shall be followed.

15. The generator of hazardous waste shall obtain authorization from State Pollution Control Board, Odisha as required under per Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 for storage, transportation and co-processing of hazardous wastes in cement plant.
16. The unit shall estimate the quantity of hazardous waste required to be co-processed and the actual quantity of hazardous waste co-processed in each calendar year shall be reported to the Board and Central Pollution Control Board.
17. The unit shall provide adequate covered storage space for the hazardous waste in accordance with Hazardous Waste Rules and ensure that there is no leaching of any pollutant.
18. During co-processing the unit shall ensure that emissions are not exceeding the base line emissions measured at normal operation of the cement kiln (without co-processing).
19. The unit shall monitor the particulate matter emissions continuously, HCl, SO₂, CO, total organic Carbon, HF, NO_x, Cd, Th & its compounds, Hg & its compounds, Sb, As, Pb, Cr, Cu, Mn, Ni, V & its compounds half yearly total Dioxins and Furans annually and furnish the report to the Board.
20. The unit shall maintain a log book for the quantification of the waste co-processing including emission monitoring results during co-processing and furnish the quantity reported to this Board.
21. During co-processing, the unit shall comply with all the requirements in accordance with the Public Liability Insurance Act, 1991 as amended.
22. The unit shall ensure the compliance of the conditions stipulated in the consent order issued under Water (PCP) Act, 1974, Air (PCP) Act, 1981 during co-processing of hazardous waste.
23. The Hazardous Wastes shall be stored in a compatible container on an impervious platform in closed shed which shall be provided with requisite fire protection system, personal protective equipment and safety system.
24. The industry shall take initiative to create awareness among the hazardous waste generating industries of the state through contact/ letter/ interaction meeting/ workshop/ seminars/ factory visit etc. to accelerate the quantity of co-processing of hazardous waste conforming to the guidelines of CPCB and explore economical solutions for sustainable management of Hazardous waste in cement plant.

M. ... Secretary

To
The Director-Plant
M/s ACC Limited, Bargarh Cement Works
Cement Nagar, Po-Bardol, Dist- Bargarh, Odisha -768038

Memo No. 1124/1 Dt. 03.07.15

Copy to:

1. Collector & District Magistrate, Bargarh.
2. Director, Factories & Boilers, Odisha, Bhubaneswar
3. Regional Officer, State Pollution Control Board, Odisha, Sambalpur.
4. Guard File, HWM Cell.

Sr. Env. ... L-1 (C)

etc

Handwritten mark

ANNEXURE-R11/A² BY SPEED POST

FAX : 0674-2564573/2562833/2560955

Tel : 2564033/2563924

EPABX : 2561909/2562847

E-mail: hwmd@ospboard.org

paribesh1@ospboard.org

Website: www.ospboard.org

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII

Bhubaneswar - 751 012, Odisha

FORM 2

[See rules 5(4)]

GRANT OF AUTHORIZATION FOR GENERATION, HANDLING, COLLECTION, STORAGE, AND DISPOSAL OF HAZARDOUS WASTE

- Number of authorization IND-IV-HW-286/ 7298 and date of issue 29.04 /2015.
- M/S OCL INDIA LIMITED (CEMENT UNIT), is hereby granted an authorization to operate a facility for generation, handling, collection, storage, disposal, transport and reuse of hazardous waste on the premises situated at/PO- RAJGANGPUR, DIST-SUNDARGARH, ODISHA- 770017.
- The authorization shall be in force for a period up to 31.05.2020.
- The authorization is subject to the conditions stated below and the conditions may be specified in the Rules for the time being in force under the Environment (Protection) Act, 1986.
- The applicant shall handle hazardous waste as specified below:

Sl. No.	Stream	Schedule	Waste Description	Quantity /A	Disposal
1	2	3	4	5	6
1.	5.1	1	Used Oil	100 KL	Storage in impervious pits / containers under covered shed followed by sale to registered recycler / re-processor
2.	5.2	1	Waste containing oil	35 T	Storage in impervious pits / containers under covered shed followed by sale to registered recycler / re-processor / disposal in authorized HW incinerator / Common Hazardous Waste Treatment Storage Disposal Facility (WTSDF)
3.	34.2	1	Spent ion exchange resin	15 Kg	Storage in impervious pits / containers under covered shed followed by final disposal in Authorized HW incinerator / S.F. / WTSDF

TERMS AND CONDITIONS OF AUTHORIZATION**GENERAL CONDITIONS**

- This authorization does not permit you to either receive and process or generate hazardous waste in case validity of Consent to Operate of your unit ceases. However you may carry out handling, storage, treatment, transport and disposal of hazardous waste generated previously during such period to avoid accumulation of hazardous waste.
- The authorization shall comply with the provisions of the Environment (Protection) Act, 1986, and the Rules made there under.
- The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
- The person authorized shall not rent, lend, sell, transfer or otherwise dispose of the hazardous wastes without obtaining prior permission of the State Pollution Control Board.
- Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.

Page # 1/2

6. It is the duty of the authorized persons to take prior permission of the State Pollution Control Board to close down the facility.
7. An application for the renewal of an authorization shall be made as laid down under these Rules.
8. Any other conditions for compliance as per the Guidelines issued by the MoEF or Central Pollution Control Board.
9. This authorization is subject to statutory and other clearances from Govt. of Odisha and / or Govt. of India as and when applicable.
10. In case the quantity of generation of hazardous Waste exceeds the Authorized quantity, the unit shall apply for amendment of Authorization order.

SPECIAL CONDITIONS

1. The mine / industry shall strictly comply to the provisions of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 and amendments made thereafter.
2. Annual returns in Form - 4 (See Rules- 5(6) & 22(2)) shall be submitted to the Board for the financial year by 30th June of every year. It shall contain the detail quantities of generation, storage and disposal of different type of hazardous wastes such as recyclable, flammable and land disposable.
3. Steps shall be taken for reduction and prevention of the hazardous waste generated or for recycling or reuse.
4. Environmental Information with respect to Air, Water, Hazardous Waste and Hazardous Chemicals shall be displayed at the main gate for public view.
5. Transportation of hazardous waste shall be done in accordance with the provisions of the Rules-20 & the Rules made by the Central Government under the Motor Vehicle Act, 1988 and other guidelines issued from time to time in this regard. Manifest system (transport document) shall be strictly followed as per Rule-21. The unit / mine shall check the authenticity of the way bill of the transport vehicle to ensure supply of hazardous waste to the authorized destination.
6. The hazardous waste shall be sold if required only to genuine recycler / processors having valid authorization and registration from the State Pollution Control Board, Odisha and concerned SPC Board.
7. All the hazardous waste shall be stored in impervious pits / containers underground with adequate capacity having spill containment facility. The spilled hazardous waste shall be re-collected and stored in impervious pits / containers prior to sale / disposal. In no circumstances the hazardous waste shall be dumped in open area to avoid contamination to surrounding area.
8. The schedule of hazardous waste and the quantity as specified in column 1, 2, 3, 4, 5 shall only be disposed off as per the stipulation prescribed under column 6.
9. The unit shall apply for renewal of authorization in Form-1, 120 days before expiry of this authorization order enclosing Annual Return in Form-4, Manifest copies and other documents in compliance to the conditions stipulated in this order along with adequate payment.

Meghendra K. Sahoo
Secretary

To
The Whole Time Director
M/s OCL India Ltd.,
At/PO- Rajgangpur, Dist- Sundargarh, Odisha-770017

Memo No. 7277/1 Dt. 27.04.18

- Copy to:
1. Collector & District Magistrate, Sundargarh.
 2. Director, Factories & Boilers, Odisha, Bhubaneswar
 3. Regional Officer, State Pollution Control Board, Odisha, Rourkela.
 4. Guard File, HWM Cell.

Sr. Env. Engr. (C)

2/2



ANIL K. SINGH - RIX/A3

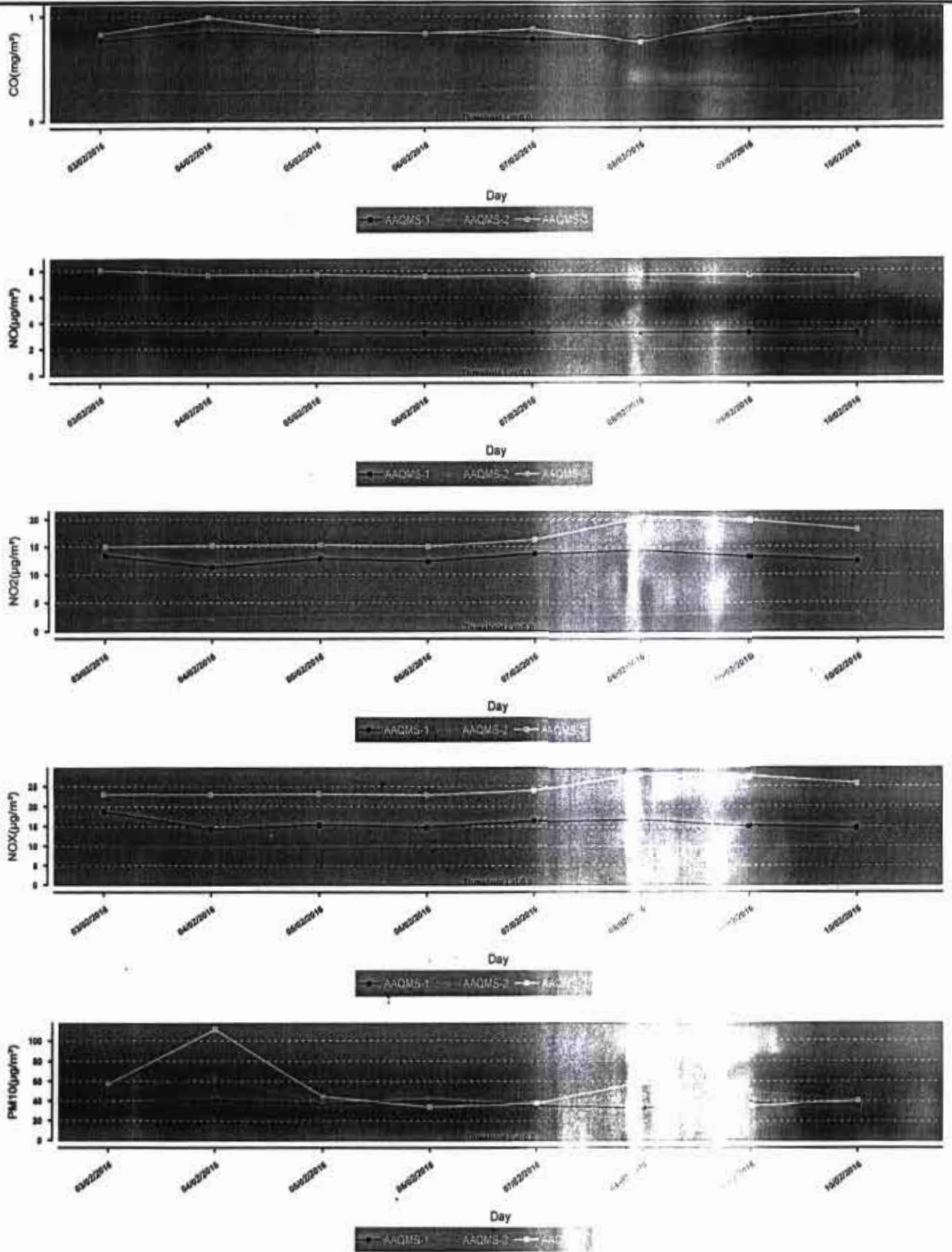
Station Id. Location
AAQMS-1 FACTORY COLONY NEAR STP
AAQMS-2 NEAR SUBSTATION
AAQMS-3 NEAR PACKING HOUSE

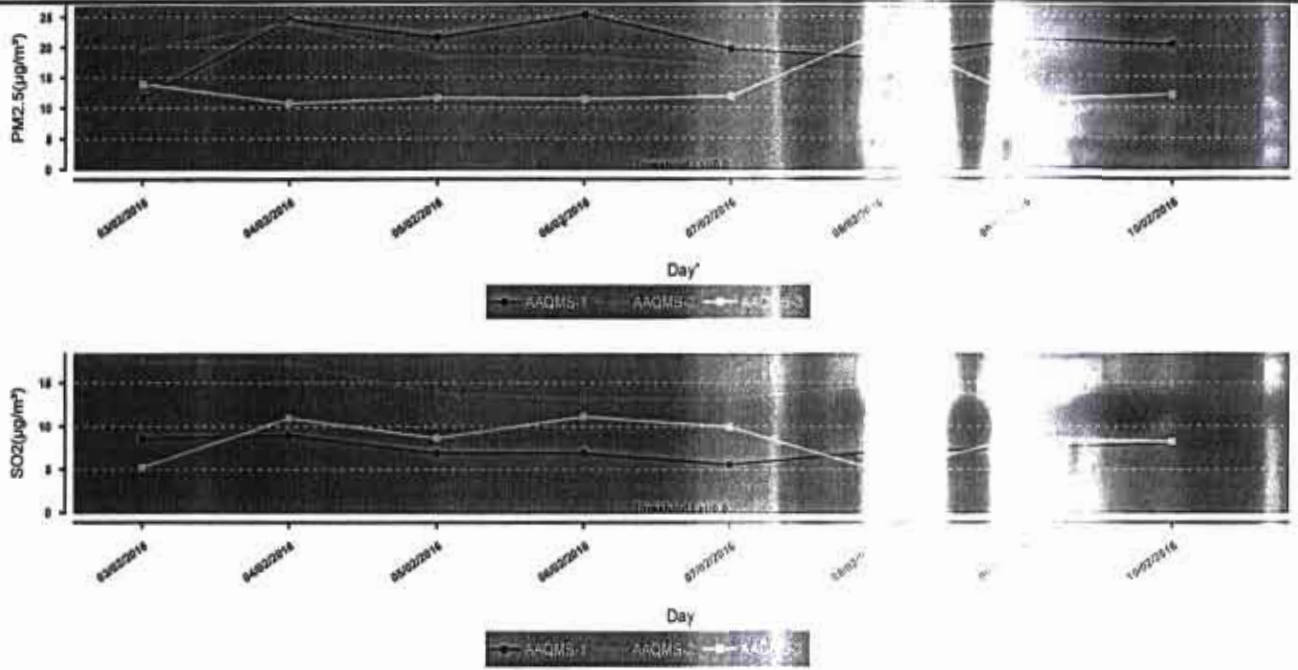
Day	Station Id.	CO (µg/m ³)	NO (µg/m ³)	NO ₂ (µg/m ³)	NO _x (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)
03/02/2016	AAQMS-1	av:0.77 mn:0.42 mx:0.96	av:3.30 mn:3.30 mx:3.30	av:13.43 mn:0.39 mx:50.90	av:18.74 mn:0.02 mx:1000.00	av:37.33 mn:2.23 mx:54.48	av:11.73 mn:8.64 mx:38.53	av:8.64 mn:1.94 mx:19.42
03/02/2016	AAQMS-2	av:0.31 mn:0.06 mx:0.72	av:8.44 mn:1.25 mx:14.81	av:2.12 mn:0.03 mx:6.20	av:10.00 mn:1.30 mx:14.76	av:49.47 mn:7.35 mx:111.49	av:19.67 mn:13.71 mx:22.62	av:17.45 mn:6.79 mx:47.00
03/02/2016	AAQMS-3	av:0.83 mn:0.78 mx:0.97	av:8.05 mn:6.11 mx:10.01	av:15.00 mn:13.95 mx:16.36	av:23.05 mn:20.94 mx:24.97	av:57.39 mn:53.30 mx:79.38	av:13.96 mn:9.36 mx:17.03	av:5.23 mn:0.27 mx:10.20
04/02/2016	AAQMS-1	av:0.85 mn:0.31 mx:1.36	av:3.30 mn:3.30 mx:3.30	av:11.36 mn:0.00 mx:24.59	av:14.42 mn:0.30 mx:27.89	av:40.90 mn:4.00 mx:49.72	av:24.94 mn:12.64 mx:30.36	av:9.02 mn:0.13 mx:12.20
04/02/2016	AAQMS-2	av:0.28 mn:0.01 mx:0.56	av:8.21 mn:0.18 mx:16.19	av:2.47 mn:0.03 mx:12.48	av:9.85 mn:2.08 mx:19.35	av:65.18 mn:22.57 mx:149.20	av:24.00 mn:16.65 mx:36.18	av:17.41 mn:1.29 mx:35.95
04/02/2016	AAQMS-3	av:0.99 mn:0.78 mx:1.18	av:7.71 mn:5.48 mx:11.10	av:15.28 mn:13.01 mx:19.26	av:22.97 mn:19.60 mx:28.23	av:111.29 mn:39.12 mx:284.80	av:10.78 mn:7.80 mx:14.07	av:10.98 mn:2.95 mx:16.74
05/02/2016	AAQMS-1	av:0.82 mn:0.20 mx:1.30	av:3.30 mn:3.00 mx:3.30	av:12.88 mn:0.00 mx:53.45	av:15.47 mn:0.13 mx:56.75	av:37.85 mn:0.40 mx:60.63	av:21.65 mn:5.93 mx:33.85	av:6.93 mn:0.03 mx:62.34
05/02/2016	AAQMS-2	av:0.29 mn:0.02 mx:0.60	av:7.33 mn:2.40 mx:13.62	av:2.91 mn:0.23 mx:5.36	av:10.24 mn:3.10 mx:16.20	av:39.47 mn:26.14 mx:61.94	av:18.51 mn:12.74 mx:22.92	av:13.80 mn:2.68 mx:21.50
05/02/2016	AAQMS-3	av:0.86 mn:0.49 mx:1.03	av:7.74 mn:4.69 mx:10.62	av:15.40 mn:10.28 mx:26.25	av:23.13 mn:11.72 mx:35.28	av:44.96 mn:22.15 mx:135.30	av:11.66 mn:7.62 mx:20.90	av:8.69 mn:0.13 mx:17.57
06/02/2016	AAQMS-1	av:0.83 mn:0.32 mx:1.19	av:3.30 mn:1.00 mx:3.30	av:12.43 mn:0.03 mx:33.64	av:14.87 mn:0.07 mx:36.94	av:40.61 mn:2.00 mx:62.27	av:25.46 mn:11.06 mx:34.76	av:6.92 mn:0.00 mx:55.17
06/02/2016	AAQMS-2	av:0.28 mn:0.01 mx:0.64	av:7.47 mn:2.46 mx:13.40	av:2.91 mn:0.34 mx:6.14	av:10.32 mn:5.43 mx:16.28	av:43.16 mn:19.45 mx:118.14	av:18.32 mn:12.22 mx:22.79	av:13.22 mn:2.22 mx:22.47
06/02/2016	AAQMS-3	av:0.83 mn:0.48 mx:1.00	av:7.59 mn:2.11 mx:11.76	av:15.10 mn:1.00 mx:24.47	av:22.80 mn:18.03 mx:32.65	av:34.23 mn:20.49 mx:72.68	av:11.40 mn:7.02 mx:35.54	av:11.16 mn:1.00 mx:15.61
07/02/2016	AAQMS-1	av:0.78 mn:0.52 mx:1.08	av:3.30 mn:3.00 mx:3.30	av:13.80 mn:0.06 mx:35.35	av:16.44 mn:0.07 mx:38.65	av:35.47 mn:3.00 mx:50.29	av:19.74 mn:10.75 mx:37.55	av:5.65 mn:0.01 mx:74.20
07/02/2016	AAQMS-2	av:0.31 mn:0.01 mx:0.58	av:7.42 mn:1.95 mx:13.04	av:2.98 mn:0.09 mx:5.23	av:10.36 mn:2.26 mx:15.24	av:38.73 mn:3.00 mx:62.33	av:16.88 mn:11.74 mx:23.01	av:13.20 mn:0.11 mx:23.45
07/02/2016	AAQMS-3	av:0.87 mn:0.38 mx:1.04	av:7.65 mn:0.91 mx:10.12	av:16.28 mn:13.38 mx:24.59	av:23.91 mn:16.76 mx:32.34	av:37.89 mn:8.56 mx:55.61	av:11.85 mn:7.89 mx:38.94	av:9.97 mn:0.15 mx:16.41
08/02/2016	AAQMS-1	av:0.78 mn:0.51 mx:1.10	av:3.30 mn:3.00 mx:3.30	av:14.49 mn:0.04 mx:43.14	av:16.97 mn:0.11 mx:46.44	av:33.37 mn:1.00 mx:42.76	av:18.17 mn:7.53 mx:34.88	av:7.15 mn:0.06 mx:52.25
08/02/2016	AAQMS-2	av:0.31 mn:0.00 mx:0.71	av:7.30 mn:3.15 mx:13.67	av:2.94 mn:0.00 mx:7.46	av:10.21 mn:5.58 mx:16.66	av:45.06 mn:3.00 mx:128.26	av:15.58 mn:10.47 mx:21.43	av:14.80 mn:1.39 mx:39.67
08/02/2016	AAQMS-3	av:0.75 mn:0.36 mx:1.03	av:7.71 mn:1.00 mx:31.81	av:20.42 mn:1.00 mx:35.26	av:28.36 mn:2.00 mx:340.00	av:58.97 mn:19.31 mx:97.79	av:22.13 mn:8.15 mx:65.13	av:4.88 mn:0.01 mx:15.78
09/02/2016	AAQMS-1	av:0.87 mn:0.35 mx:40.00	av:3.30 mn:3.00 mx:3.30	av:13.32 mn:0.01 mx:40.40	av:15.26 mn:0.01 mx:43.70	av:38.37 mn:26.02 mx:51.60	av:21.16 mn:10.75 mx:51.60	av:7.47 mn:0.01 mx:73.24
09/02/2016	AAQMS-2	av:0.30 mn:0.03 mx:0.60	av:6.95 mn:3.11 mx:11.08	av:3.30 mn:1.49 mx:4.88	av:10.23 mn:4.95 mx:15.34	av:49.66 mn:22.66 mx:204.63	av:19.77 mn:11.94 mx:30.10	av:13.03 mn:1.84 mx:25.92
09/02/2016	AAQMS-3	av:0.97 mn:0.43 mx:1.32	av:7.68 mn:4.00 mx:12.26	av:19.86 mn:11.37 mx:32.38	av:27.63 mn:2.00 mx:40.39	av:35.78 mn:16.80 mx:142.10	av:11.14 mn:6.08 mx:22.51	av:8.67 mn:0.09 mx:24.11
10/02/2016	AAQMS-1	av:0.90 mn:0.43 mx:9.06	av:3.30 mn:3.00 mx:3.30	av:12.42 mn:0.02 mx:172.10	av:14.69 mn:0.39 mx:175.40	av:36.42 mn:3.00 mx:50.41	av:20.39 mn:13.70 mx:36.30	av:8.14 mn:0.00 mx:94.39
10/02/2016	AAQMS-2	av:0.29 mn:0.02 mx:0.61	av:7.16 mn:4.30 mx:13.79	av:3.05 mn:0.31 mx:4.55	av:10.18 mn:4.21 mx:15.69	av:41.31 mn:30.62 mx:60.68	av:19.40 mn:13.35 mx:25.61	av:14.85 mn:9.65 mx:19.24
10/02/2016	AAQMS-3	av:1.05 mn:0.54 mx:1.23	av:7.61 mn:3.57 mx:11.31	av:18.14 mn:2.00 mx:30.95	av:25.80 mn:14.64 mx:38.16	av:40.71 mn:7.20 mx:72.62	av:12.15 mn:5.61 mx:37.76	av:8.31 mn:0.01 mx:28.01

- 387 -

Extreme Aggregations

Station	Parameter	Extn.	Date	Extn. Val.
AAQMS-1 (FACTORY COLONY NEAR STP)	CO	Min	Feb-2016 03/02/2016	0.77 mg/m ³
		Max	Feb-2016 10/02/2016	0.90 mg/m ³
AAQMS-1 (FACTORY COLONY NEAR STP)	NO	Min	Feb-2016 06/02/2016	3.30 µg/m ³
		Max	Feb-2016 03/02/2016	3.30 µg/m ³
AAQMS-1 (FACTORY COLONY NEAR STP)	NO ₂	Min	Feb-2016 04/02/2016	11.36 µg/m ³
		Max	Feb-2016 08/02/2016	14.49 µg/m ³
AAQMS-1 (FACTORY COLONY NEAR STP)	NO _X	Min	Feb-2016 04/02/2016	14.42 µg/m ³
		Max	Feb-2016 03/02/2016	18.74 µg/m ³
AAQMS-1 (FACTORY COLONY NEAR STP)	PM ₁₀	Min	Feb-2016 08/02/2016	33.37 µg/m ³
		Max	Feb-2016 04/02/2016	40.90 µg/m ³
AAQMS-1 (FACTORY COLONY NEAR STP)	PM _{2.5}	Min	Feb-2016 03/02/2016	11.72 µg/m ³
		Max	Feb-2016 06/02/2016	25.46 µg/m ³
AAQMS-1 (FACTORY COLONY NEAR STP)	SO ₂	Min	Feb-2016 07/02/2016	5.65 µg/m ³
		Max	Feb-2016 04/02/2016	9.02 µg/m ³
AAQMS-2 (NEAR SUBSTATION)	CO	Min	Feb-2016 06/02/2016	0.28 mg/m ³
		Max	Feb-2016 07/02/2016	0.31 mg/m ³
AAQMS-2 (NEAR SUBSTATION)	NO	Min	Feb-2016 09/02/2016	6.95 µg/m ³
		Max	Feb-2016 03/02/2016	8.44 µg/m ³
AAQMS-2 (NEAR SUBSTATION)	NO ₂	Min	Feb-2016 03/02/2016	2.12 µg/m ³
		Max	Feb-2016 09/02/2016	3.30 µg/m ³
AAQMS-2 (NEAR SUBSTATION)	NO _X	Min	Feb-2016 04/02/2016	9.85 µg/m ³
		Max	Feb-2016 07/02/2016	10.36 µg/m ³
AAQMS-2 (NEAR SUBSTATION)	PM ₁₀	Min	Feb-2016 07/02/2016	38.73 µg/m ³
		Max	Feb-2016 04/02/2016	65.18 µg/m ³
AAQMS-2 (NEAR SUBSTATION)	PM _{2.5}	Min	Feb-2016 08/02/2016	15.58 µg/m ³
		Max	Feb-2016 04/02/2016	24.00 µg/m ³
AAQMS-2 (NEAR SUBSTATION)	SO ₂	Min	Feb-2016 09/02/2016	13.03 µg/m ³
		Max	Feb-2016 03/02/2016	17.45 µg/m ³
AAQMS-3 (NEAR PACKING HOUSE)	CO	Min	Feb-2016 08/02/2016	0.75 mg/m ³
		Max	Feb-2016 10/02/2016	1.05 mg/m ³
AAQMS-3 (NEAR PACKING HOUSE)	NO	Min	Feb-2016 06/02/2016	7.59 µg/m ³
		Max	Feb-2016 03/02/2016	8.05 µg/m ³
AAQMS-3 (NEAR PACKING HOUSE)	NO ₂	Min	Feb-2016 03/02/2016	15.00 µg/m ³
		Max	Feb-2016 08/02/2016	20.42 µg/m ³
AAQMS-3 (NEAR PACKING HOUSE)	NO _X	Min	Feb-2016 06/02/2016	22.80 µg/m ³
		Max	Feb-2016 08/02/2016	28.36 µg/m ³
AAQMS-3 (NEAR PACKING HOUSE)	PM ₁₀	Min	Feb-2016 06/02/2016	34.23 µg/m ³
		Max	Feb-2016 04/02/2016	111.29 µg/m ³
AAQMS-3 (NEAR PACKING HOUSE)	PM _{2.5}	Min	Feb-2016 04/02/2016	10.78 µg/m ³
		Max	Feb-2016 08/02/2016	22.13 µg/m ³
AAQMS-3 (NEAR PACKING HOUSE)	SO ₂	Min	Feb-2016 08/02/2016	4.88 µg/m ³
		Max	Feb-2016 06/02/2016	11.16 µg/m ³







Station Id.	Location	Station Id.	Location
CEMS-2	CPP ESP		
CEMS-3	SLAG VRM		
CEMS-4	COOLER STACK		
CEMS-1	KILN BAG HOUSE STACK		

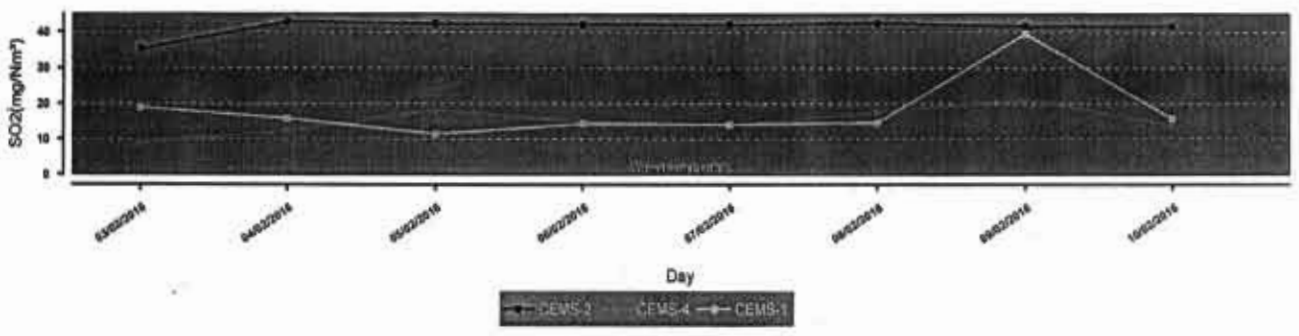
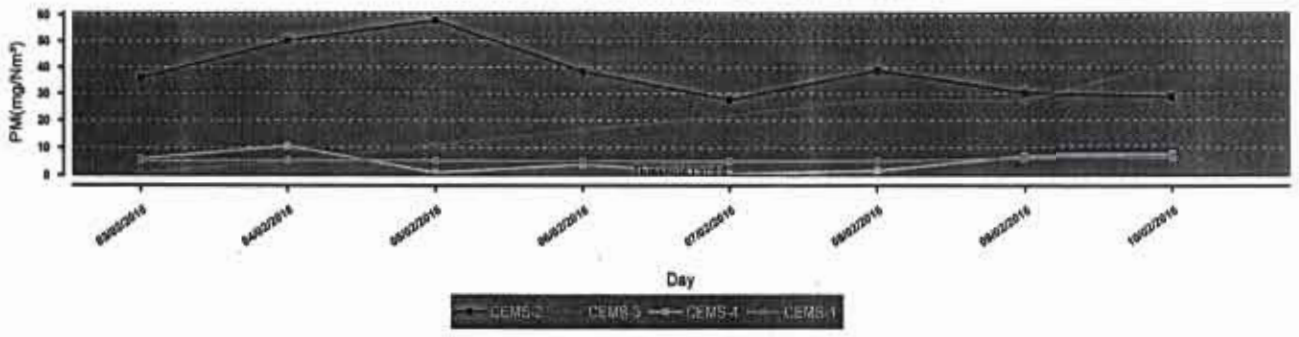
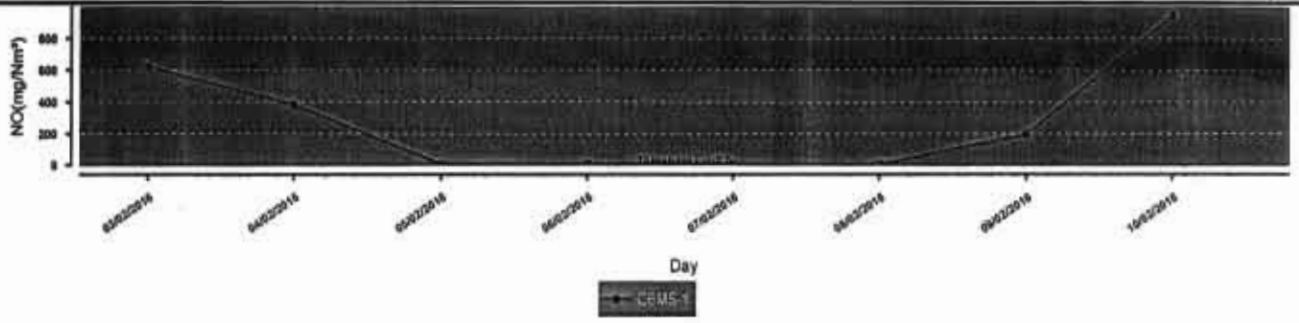
Day	Station Id.	NO (in µg/Nm ³)	NO ₂ (in µg/Nm ³)	PM (in µg/Nm ³)	SO ₂ (in µg/Nm ³)
03/02/2016	CEMS-2	NA	AV: 22.37 MN: 9.22 MX: 28.28	AV: 35.93 MN: 28.24 MX: 114.39	AV: 35.38 MN: 33.00 MX: 44.10
03/02/2016	CEMS-3	NA	NA	AV: 0.96 MN: 0.10 MX: 35.07	
03/02/2016	CEMS-4	NA	AV: 1.31 MN: 1.00 MX: 9.69	AV: 5.00 MN: 0.37 MX: 75.08	AV: 9.17 MN: 4.25 MX: 19.81
03/02/2016	CEMS-1	AV: 623.24 MN: 401.72 MX: 723.12	AV: 1061.24 MN: 475.94 MX: 1414.38	AV: 5.34 MN: 3.92 MX: 6.84	AV: 18.99 MN: 13.45 MX: 20.75
04/02/2016	CEMS-2	NA	AV: 13.30 MN: 7.03 MX: 17.50	AV: 50.21 MN: 17.55 MX: 199.71	AV: 42.97 MN: 40.50 MX: 43.75
04/02/2016	CEMS-3	NA	NA	AV: 5.33 MN: 1.60 MX: 103.12	
04/02/2016	CEMS-4	NA	AV: 1.23 MN: 1.12 MX: 1.94	AV: 10.68 MN: 0.27 MX: 86.48	AV: 12.46 MN: 7.69 MX: 19.32
04/02/2016	CEMS-1	AV: 385.87 MN: 5.31 MX: 799.06	AV: 442.42 MN: 75.00 MX: 1343.12	AV: 5.51 MN: 3.94 MX: 12.39	AV: 15.94 MN: 13.85 MX: 19.75
05/02/2016	CEMS-2	NA	AV: 12.85 MN: 8.59 MX: 17.81	AV: 57.96 MN: 13.55 MX: 198.67	AV: 42.47 MN: 39.15 MX: 43.70
05/02/2016	CEMS-3	NA	NA	AV: 11.21 MN: 4.97 MX: 103.48	
05/02/2016	CEMS-4	NA	AV: 1.22 MN: 0.88 MX: 2.19	AV: 0.99 MN: 0.16 MX: 83.68	AV: 18.32 MN: 11.00 MX: 24.37
05/02/2016	CEMS-1	AV: 5.98 MN: 4.84 MX: 7.34	AV: 68.56 MN: 9.53 MX: 110.78	AV: 5.36 MN: 3.50 MX: 12.87	AV: 11.44 MN: 3.25 MX: 14.55
06/02/2016	CEMS-2	NA	AV: 12.36 MN: 8.28 MX: 17.03	AV: 38.41 MN: 9.26 MX: 189.65	AV: 42.26 MN: 39.70 MX: 43.55
06/02/2016	CEMS-3	NA	NA	AV: 16.48 MN: 10.30 MX: 25.51	
06/02/2016	CEMS-4	NA	AV: 1.21 MN: 1.06 MX: 1.38	AV: 3.99 MN: 0.23 MX: 47.84	AV: 15.07 MN: 12.44 MX: 19.63
06/02/2016	CEMS-1	AV: 6.56 MN: 5.00 MX: 10.16	AV: 87.15 MN: 9.53 MX: 101.09	AV: 5.19 MN: 3.63 MX: 6.58	AV: 14.31 MN: 3.45 MX: 14.60
07/02/2016	CEMS-2	NA	AV: 12.14 MN: 10.47 MX: 16.25	AV: 27.76 MN: 13.46 MX: 158.33	AV: 42.07 MN: 39.40 MX: 43.90
07/02/2016	CEMS-3	NA	NA	AV: 21.93 MN: 17.82 MX: 103.50	
07/02/2016	CEMS-4	NA	AV: 1.21 MN: 1.06 MX: 1.38	AV: 0.50 MN: 0.26 MX: 1.66	AV: 14.01 MN: 12.12 MX: 22.87
07/02/2016	CEMS-1	AV: 6.87 MN: 5.00 MX: 9.84	AV: 88.50 MN: 9.53 MX: 155.63	AV: 5.15 MN: 3.81 MX: 6.38	AV: 14.12 MN: 3.40 MX: 15.50
08/02/2016	CEMS-2	NA	AV: 12.48 MN: 8.44 MX: 17.03	AV: 38.81 MN: 5.95 MX: 199.74	AV: 42.70 MN: 40.10 MX: 43.45
08/02/2016	CEMS-3	NA	NA	AV: 27.79 MN: 21.61 MX: 103.49	
08/02/2016	CEMS-4	NA	AV: 1.20 MN: 1.06 MX: 1.31	AV: 1.70 MN: 0.21 MX: 7.10	AV: 17.70 MN: 7.38 MX: 24.63
08/02/2016	CEMS-1	AV: 5.75 MN: 5.16 MX: 6.09	AV: 33.91 MN: 22.66 MX: 60.47	AV: 5.16 MN: 3.81 MX: 6.39	AV: 14.70 MN: 14.25 MX: 15.10
09/02/2016	CEMS-2	NA	AV: 12.38 MN: 9.53 MX: 15.47	AV: 30.32 MN: 7.57 MX: 199.43	AV: 42.75 MN: 38.80 MX: 43.25
09/02/2016	CEMS-3	NA	NA	AV: 27.33 MN: 22.41 MX: 103.52	
09/02/2016	CEMS-4	NA	AV: 1.21 MN: 1.00 MX: 1.38	AV: 7.11 MN: 0.24 MX: 97.08	AV: 21.38 MN: 17.19 MX: 27.06
09/02/2016	CEMS-1	AV: 198.52 MN: 5.16 MX: 992.34	AV: 198.30 MN: 9.53 MX: 913.44	AV: 6.27 MN: 4.14 MX: 22.88	AV: 39.62 MN: 3.35 MX: 765.60



Day	Station Id.	NO (in µg/Nm ³)	NO ₂ (in µg/Nm ³)	PM (in µg/Nm ³)	SO ₂ (in µg/Nm ³)
10/02/2016	CEMS-2	NA	AV: 11.85 MN: 9.84 MX: 13.75	AV: 28.91 MN: 16.05 MX: 144.53	AV: 41.62 MN: 38.95 MX: 42.45
10/02/2016	CEMS-3	NA	NA	AV: 41.85 MN: 33.88 MX: 54.51	
10/02/2016	CEMS-4	NA	AV: 1.20 MN: 1.00 MX: 1.44	AV: 6.97 MN: 2.50 MX: 94.06	AV: 14.04 MN: 10.06 MX: 19.81
10/02/2016	CEMS-1	AV: 947.11 MN: 5.78 MX: 1239.84	AV: 1325.75 MN: 9.69 MX: 2402.03	AV: 5.92 MN: 4.14 MX: 39.66	AV: 15.75 MN: 3.45 MX: 19.75

Extreme Aggregations

Station	Parameter	Extn.	Date	Extn. Val.
CEMS-2 (CPP ESP)	NO2	Min	Feb-2016 10/02/2016	11.85 mg/Nm ³
		Max	Feb-2016 03/02/2016	22.37 mg/Nm ³
CEMS-2 (CPP ESP)	PM	Min	Feb-2016 07/02/2016	27.76 mg/Nm ³
		Max	Feb-2016 05/02/2016	57.96 mg/Nm ³
CEMS-2 (CPP ESP)	SO2	Min	Feb-2016 03/02/2016	35.38 mg/Nm ³
		Max	Feb-2016 04/02/2016	42.97 mg/Nm ³
CEMS-3 (SLAG VRM)	PM	Min	Feb-2016 03/02/2016	0.96 mg/Nm ³
		Max	Feb-2016 10/02/2016	41.85 mg/Nm ³
CEMS-4 (COOLER STACK)	NO2	Min	Feb-2016 08/02/2016	1.20 mg/Nm ³
		Max	Feb-2016 03/02/2016	1.31 mg/Nm ³
CEMS-4 (COOLER STACK)	PM	Min	Feb-2016 07/02/2016	0.50 mg/Nm ³
		Max	Feb-2016 04/02/2016	10.68 mg/Nm ³
CEMS-4 (COOLER STACK)	SO2	Min	Feb-2016 03/02/2016	9.17 mg/Nm ³
		Max	Feb-2016 09/02/2016	21.38 mg/Nm ³
CEMS-1 (KILN BAG HOUSE STACK)	NO	Min	Feb-2016 08/02/2016	5.75 mg/Nm ³
		Max	Feb-2016 10/02/2016	947.11 mg/Nm ³
CEMS-1 (KILN BAG HOUSE STACK)	NO2	Min	Feb-2016 08/02/2016	33.91 mg/Nm ³
		Max	Feb-2016 10/02/2016	1325.75 mg/Nm ³
CEMS-1 (KILN BAG HOUSE STACK)	PM	Min	Feb-2016 07/02/2016	5.15 mg/Nm ³
		Max	Feb-2016 09/02/2016	6.27 mg/Nm ³
CEMS-1 (KILN BAG HOUSE STACK)	SO2	Min	Feb-2016 05/02/2016	11.44 mg/Nm ³
		Max	Feb-2016 09/02/2016	39.62 mg/Nm ³





Station Id. Location
AAQMS-1 WORKSHOP BUILDING
AAQMS-2 RGP CLUB
AAQMS-3 STP
AAQMS-4 OCL COLONY

Station Id. Location

Day	Station Id.	CO (in µg/m ³)	NO (in µg/m ³)	NO ₂ (in µg/m ³)	NO _x (in µg/m ³)	PM ₁₀ (in µg/m ³)	PM _{2.5} (in µg/m ³)	SO ₂ (in µg/m ³)
03/02/2016	AAQMS-1	AV: 0.35 MN: 0.01 MX: 0.54	AV: 9.01 MN: 3.10 MX: 19.70	AV: 16.52 MN: 1.00 MX: 24.60	AV: 25.56 MN: 14.20 MX: 43.10	AV: 16.62 MN: 3.00 MX: 33.00	AV: 2.34 MN: 1.00 MX: 5.00	AV: 21.42 MN: 20.30 MX: 23.00
03/02/2016	AAQMS-2	AV: 0.88 MN: 0.35 MX: 15.00	AV: 6.45 MN: 1.70 MX: 19.10	AV: 15.19 MN: 12.10 MX: 30.00	AV: 21.63 MN: 14.20 MX: 43.00	AV: 52.80 MN: 29.00 MX: 89.00	AV: 12.06 MN: 1.00 MX: 29.00	AV: 35.53 MN: 34.00 MX: 39.80
03/02/2016	AAQMS-3	AV: 4.88 MN: 0.92 MX: 16.00	AV: 22.87 MN: 6.60 MX: 62.00	AV: 8.04 MN: 5.60 MX: 11.20	AV: 16.95 MN: 8.10 MX: 36.00	AV: 59.43 MN: 8.10 MX: 88.00	AV: 32.33 MN: 25.00 MX: 36.00	AV: 8.11 MN: 7.70 MX: 9.00
03/02/2016	AAQMS-4	AV: 0.27 MN: 0.02 MX: 0.39	AV: 1.20 MN: 0.10 MX: 46.00	AV: 8.17 MN: 0.25 MX: 41.00	AV: 9.02 MN: 0.40 MX: 15.50	AV: 35.61 MN: 19.00 MX: 76.00	AV: 23.22 MN: 0.20 MX: 47.00	AV: 10.50 MN: 19.40 MX: 11.10
04/02/2016	AAQMS-1	AV: 0.24 MN: 0.01 MX: 5.00	AV: 5.25 MN: 2.90 MX: 18.30	AV: 15.77 MN: 11.80 MX: 22.00	AV: 20.58 MN: 14.80 MX: 39.10	AV: 16.99 MN: 7.00 MX: 66.00	AV: 2.74 MN: 1.00 MX: 10.00	AV: 20.58 MN: 19.40 MX: 32.60
04/02/2016	AAQMS-2	AV: 0.76 MN: 0.33 MX: 5.00	AV: 5.12 MN: 1.80 MX: 33.80	AV: 14.82 MN: 5.00 MX: 25.20	AV: 19.91 MN: 12.10 MX: 60.50	AV: 50.22 MN: 36.00 MX: 73.00	AV: 5.79 MN: 1.00 MX: 15.00	AV: 34.55 MN: 32.70 MX: 36.10
04/02/2016	AAQMS-3	AV: 1.02 MN: 0.99 MX: 1.06	AV: 11.92 MN: 11.60 MX: 13.90	AV: 3.80 MN: 8.00 MX: 10.10	AV: 23.84 MN: 20.10 MX: 79.00	AV: 78.42 MN: 50.00 MX: 81.00	AV: 27.31 MN: 22.00 MX: 28.00	AV: 7.87 MN: 7.60 MX: 9.10
04/02/2016	AAQMS-4	AV: 2.67 MN: 0.01 MX: 14.00	AV: 0.75 MN: 0.10 MX: 10.30	AV: 7.84 MN: 0.17 MX: 23.00	AV: 8.40 MN: 0.10 MX: 14.20	AV: 31.43 MN: 10.00 MX: 48.00	AV: 16.31 MN: 10.00 MX: 25.00	AV: 10.75 MN: 7.00 MX: 11.30
05/02/2016	AAQMS-1	AV: 0.21 MN: 0.01 MX: 0.39	AV: 16.45 MN: 5.00 MX: 27.20	AV: 21.44 MN: 13.80 MX: 29.70	AV: 36.93 MN: 18.80 MX: 55.20	AV: 31.82 MN: 3.00 MX: 73.00	AV: 6.71 MN: 2.00 MX: 10.00	AV: 20.74 MN: 15.20 MX: 31.30
05/02/2016	AAQMS-2	AV: 0.69 MN: 0.29 MX: 22.00	AV: 5.88 MN: 1.60 MX: 21.10	AV: 12.82 MN: 9.00 MX: 23.20	AV: 18.68 MN: 12.70 MX: 33.40	AV: 48.95 MN: 19.00 MX: 73.00	AV: 8.90 MN: 2.00 MX: 22.00	AV: 35.28 MN: 33.30 MX: 39.20
05/02/2016	AAQMS-3	AV: 2.07 MN: 0.66 MX: 9.30	AV: 3.51 MN: 7.60 MX: 11.80	AV: 11.71 MN: 7.50 MX: 67.00	AV: 21.10 MN: 7.50 MX: 67.00	AV: 64.97 MN: 8.00 MX: 112.00	AV: 25.70 MN: 1.04 MX: 37.00	AV: 8.15 MN: 7.60 MX: 9.50
05/02/2016	AAQMS-4	AV: 1.50 MN: 0.01 MX: 47.00	AV: 1.78 MN: 0.10 MX: 14.00	AV: 8.21 MN: 0.35 MX: 16.00	AV: 9.93 MN: 0.10 MX: 36.50	AV: 35.19 MN: 19.00 MX: 48.00	AV: 27.53 MN: 1.10 MX: 52.00	AV: 10.64 MN: 1.40 MX: 35.60
06/02/2016	AAQMS-1	NA	AV: 3.14 MN: 2.90 MX: 3.50	AV: 17.33 MN: 16.50 MX: 18.90	AV: 20.43 MN: 19.50 MX: 22.40	AV: 7.00 MN: 7.00 MX: 7.00	AV: 1.00 MN: 1.00 MX: 1.00	AV: 21.23 MN: 20.70 MX: 22.00
06/02/2016	AAQMS-2	AV: 1.13 MN: 0.52 MX: 14.00	AV: 6.72 MN: 1.70 MX: 18.30	AV: 15.20 MN: 11.10 MX: 53.00	AV: 22.14 MN: 3.80 MX: 54.00	AV: 59.91 MN: 0.74 MX: 119.00	AV: 12.68 MN: 1.00 MX: 28.00	AV: 35.62 MN: 7.60 MX: 49.10
06/02/2016	AAQMS-3	AV: 1.01 MN: 0.80 MX: 1.09	AV: 25.10 MN: 1.52 MX: 90.00	AV: 8.30 MN: 7.30 MX: 9.10	AV: 32.37 MN: 7.50 MX: 112.00	AV: 65.67 MN: 8.60 MX: 112.00	AV: 22.07 MN: 7.90 MX: 34.00	AV: 8.56 MN: 7.90 MX: 10.00
06/02/2016	AAQMS-4	AV: 8.00 MN: 0.01 MX: 1199.00	AV: 1.34 MN: 0.10 MX: 9.70	AV: 7.93 MN: 2.90 MX: 46.00	AV: 9.19 MN: 0.50 MX: 38.40	AV: 99.40 MN: 18.00 MX: 1199.00	AV: 28.76 MN: 0.50 MX: 52.00	AV: 10.36 MN: 9.70 MX: 11.00
07/02/2016	AAQMS-2	AV: 0.69 MN: 0.42 MX: 4.00	AV: 3.10 MN: 1.90 MX: 7.50	AV: 14.32 MN: 11.70 MX: 28.00	AV: 17.32 MN: 13.60 MX: 25.50	AV: 51.38 MN: 31.00 MX: 69.00	AV: 14.79 MN: 4.00 MX: 28.00	AV: 37.57 MN: 34.50 MX: 39.30
07/02/2016	AAQMS-3	AV: 2.03 MN: 0.88 MX: 16.00	AV: 12.82 MN: 1.05 MX: 82.00	AV: 9.21 MN: 1.52 MX: 11.50	AV: 21.07 MN: 8.30 MX: 68.00	AV: 65.68 MN: 6.80 MX: 101.00	AV: 18.83 MN: 1.01 MX: 27.00	AV: 9.23 MN: 1.11 MX: 10.60
07/02/2016	AAQMS-4	AV: 27.33 MN: 22.00 MX: 30.00	AV: 0.56 MN: 0.10 MX: 6.40	AV: 6.29 MN: 4.70 MX: 34.00	AV: 6.52 MN: 0.50 MX: 10.70	AV: 28.70 MN: 21.80 MX: 43.00	AV: 23.81 MN: 8.00 MX: 34.00	AV: 8.88 MN: 0.50 MX: 10.50
08/02/2016	AAQMS-2	AV: 0.77 MN: 0.27 MX: 18.00	AV: 5.74 MN: 1.70 MX: 30.00	AV: 13.58 MN: 9.00 MX: 21.20	AV: 19.28 MN: 13.90 MX: 51.70	AV: 41.69 MN: 25.00 MX: 78.00	AV: 6.94 MN: 1.00 MX: 18.00	AV: 36.85 MN: 35.30 MX: 39.80
08/02/2016	AAQMS-3	AV: 2.11 MN: 0.94 MX: 25.00	AV: 14.73 MN: 1.44 MX: 19.30	AV: 14.30 MN: 9.10 MX: 86.00	AV: 26.04 MN: 1.40 MX: 67.00	AV: 67.53 MN: 9.90 MX: 107.00	AV: 18.27 MN: 0.97 MX: 73.00	AV: 10.93 MN: 1.39 MX: 82.00
08/02/2016	AAQMS-4	AV: 0.89 MN: 0.02 MX: 26.00	AV: 1.27 MN: 0.10 MX: 9.30	AV: 5.96 MN: 0.14 MX: 43.00	AV: 6.94 MN: 5.10 MX: 14.90	AV: 28.91 MN: 15.00 MX: 62.00	AV: 21.03 MN: 7.80 MX: 41.00	AV: 10.40 MN: 8.50 MX: 11.10
09/02/2016	AAQMS-2	AV: 0.38 MN: 0.11 MX: 1.00	AV: 3.78 MN: 1.70 MX: 23.50	AV: 11.70 MN: 7.90 MX: 28.40	AV: 15.41 MN: 9.80 MX: 51.70	AV: 32.75 MN: 13.00 MX: 83.00	AV: 1.34 MN: 1.00 MX: 55.00	AV: 34.09 MN: 32.40 MX: 36.90
09/02/2016	AAQMS-4	AV: 5.27 MN: 0.01 MX: 21.00	AV: 0.84 MN: 0.10 MX: 5.80	AV: 6.47 MN: 1.00 MX: 14.60	AV: 7.21 MN: 0.90 MX: 17.30	AV: 27.45 MN: 12.00 MX: 52.00	AV: 18.35 MN: 0.60 MX: 31.00	AV: 10.81 MN: 4.00 MX: 11.40
10/02/2016 *	AAQMS-2	AV: 0.64 MN: 0.25 MX: 4.00	AV: 7.87 MN: 1.80 MX: 23.90	AV: 12.36 MN: 2.00 MX: 24.00	AV: 20.39 MN: 1.90 MX: 34.80	AV: 40.95 MN: 1.80 MX: 85.00	AV: 2.92 MN: 1.00 MX: 6.00	AV: 36.22 MN: 33.40 MX: 51.00
10/02/2016	AAQMS-4	AV: 0.33 MN: 0.01 MX: 16.00	AV: 1.72 MN: 0.10 MX: 23.90	AV: 6.96 MN: 3.30 MX: 50.00	AV: 8.45 MN: 4.20 MX: 29.60	AV: 24.34 MN: 10.00 MX: 58.00	AV: 14.35 MN: 1.00 MX: 31.00	AV: 10.33 MN: 9.60 MX: 11.00



Extreme Aggregations

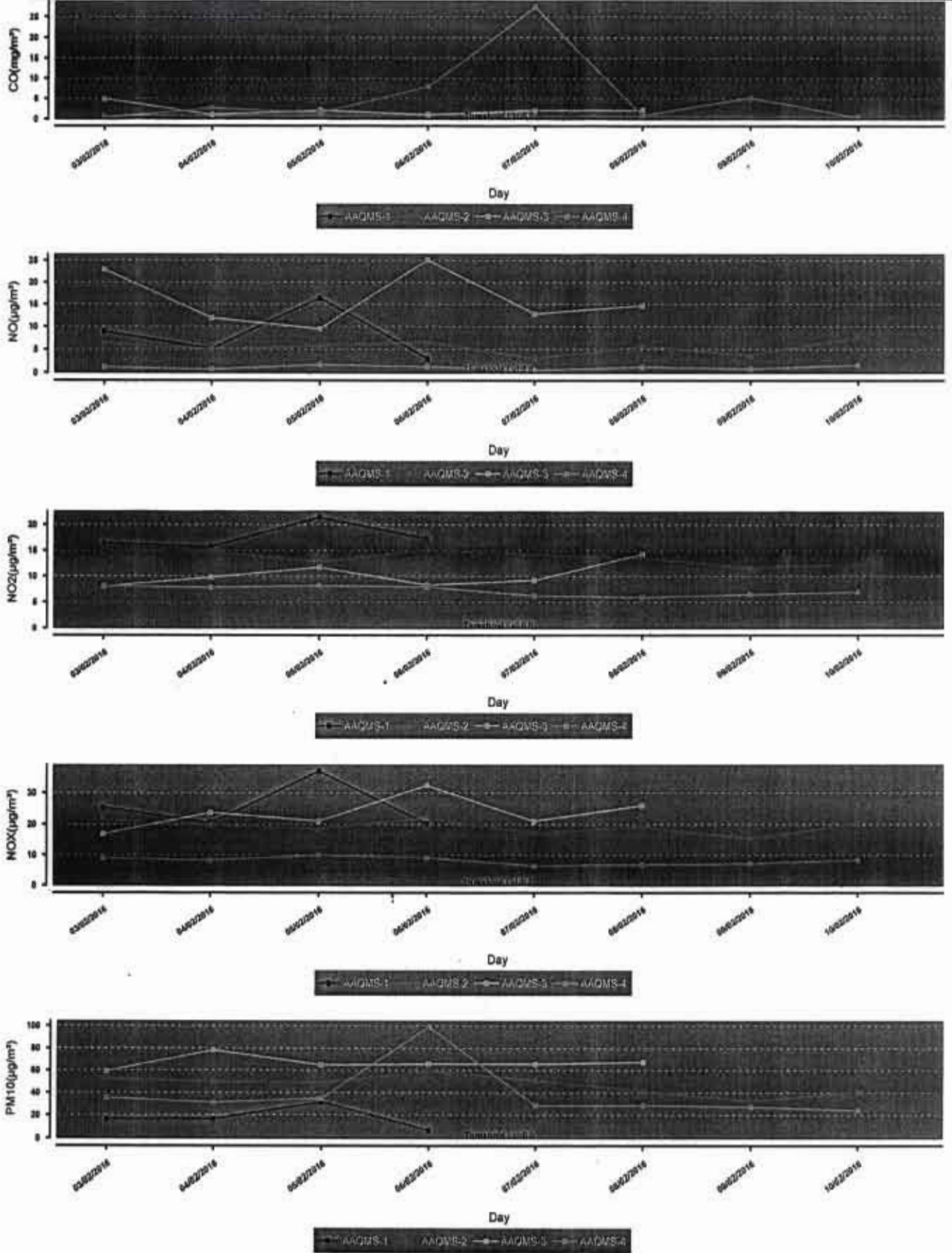
Station	Parameter	Ext.	Detn	Ext. Val
AAQMS-1 (WORKSHOP BUILDING)	CO	Min	Feb-2016 05/02/2016	0.21 mg/m ³
		Max	Feb-2016 03/02/2016	0.35 mg/m ³
AAQMS-1 (WORKSHOP BUILDING)	NO	Min	Feb-2016 06/02/2016	3.14 µg/m ³
		Max	Feb-2016 05/02/2016	16.45 µg/m ³
AAQMS-1 (WORKSHOP BUILDING)	NO2	Min	Feb-2016 04/02/2016	15.77 µg/m ³
		Max	Feb-2016 05/02/2016	21.44 µg/m ³
AAQMS-1 (WORKSHOP BUILDING)	NOX	Min	Feb-2016 06/02/2016	20.43 µg/m ³
		Max	Feb-2016 05/02/2016	36.93 µg/m ³
AAQMS-1 (WORKSHOP BUILDING)	PM10	Min	Feb-2016 06/02/2016	7.00 µg/m ³
		Max	Feb-2016 05/02/2016	31.82 µg/m ³
AAQMS-1 (WORKSHOP BUILDING)	PM2.5	Min	Feb-2016 06/02/2016	1.00 µg/m ³
		Max	Feb-2016 05/02/2016	6.71 µg/m ³
AAQMS-1 (WORKSHOP BUILDING)	SO2	Min	Feb-2016 04/02/2016	20.58 µg/m ³
		Max	Feb-2016 03/02/2016	21.42 µg/m ³
AAQMS-2 (RGP CLUB)	CO	Min	Feb-2016 09/02/2016	0.38 mg/m ³
		Max	Feb-2016 06/02/2016	1.13 mg/m ³
AAQMS-2 (RGP CLUB)	NO	Min	Feb-2016 07/02/2016	3.10 µg/m ³
		Max	Feb-2016 10/02/2016	7.87 µg/m ³
AAQMS-2 (RGP CLUB)	NO2	Min	Feb-2016 09/02/2016	11.70 µg/m ³
		Max	Feb-2016 06/02/2016	15.20 µg/m ³
AAQMS-2 (RGP CLUB)	NOX	Min	Feb-2016 09/02/2016	15.41 µg/m ³
		Max	Feb-2016 06/02/2016	22.14 µg/m ³
AAQMS-2 (RGP CLUB)	PM10	Min	Feb-2016 09/02/2016	32.75 µg/m ³
		Max	Feb-2016 06/02/2016	59.91 µg/m ³
AAQMS-2 (RGP CLUB)	PM2.5	Min	Feb-2016 09/02/2016	1.34 µg/m ³
		Max	Feb-2016 07/02/2016	14.79 µg/m ³
AAQMS-2 (RGP CLUB)	SO2	Min	Feb-2016 09/02/2016	34.09 µg/m ³
		Max	Feb-2016 07/02/2016	37.57 µg/m ³
AAQMS-3 (STP)	CO	Min	Feb-2016 06/02/2016	1.01 mg/m ³
		Max	Feb-2016 03/02/2016	4.88 mg/m ³
AAQMS-3 (STP)	NO	Min	Feb-2016 05/02/2016	9.51 µg/m ³
		Max	Feb-2016 06/02/2016	25.10 µg/m ³
AAQMS-3 (STP)	NO2	Min	Feb-2016 03/02/2016	8.04 µg/m ³
		Max	Feb-2016 08/02/2016	14.30 µg/m ³
AAQMS-3 (STP)	NOX	Min	Feb-2016 03/02/2016	16.95 µg/m ³
		Max	Feb-2016 06/02/2016	32.37 µg/m ³
AAQMS-3 (STP)	PM10	Min	Feb-2016 03/02/2016	59.43 µg/m ³
		Max	Feb-2016 04/02/2016	78.42 µg/m ³
AAQMS-3 (STP)	PM2.5	Min	Feb-2016 08/02/2016	18.27 µg/m ³
		Max	Feb-2016 03/02/2016	32.33 µg/m ³
AAQMS-3 (STP)	SO2	Min	Feb-2016 04/02/2016	7.87 µg/m ³
		Max	Feb-2016 08/02/2016	10.93 µg/m ³
AAQMS-4 (OCL COLONY)	CO	Min	Feb-2016 03/02/2016	0.27 mg/m ³
		Max	Feb-2016 07/02/2016	27.33 mg/m ³
AAQMS-4 (OCL COLONY)	NO	Min	Feb-2016 07/02/2016	0.56 µg/m ³
		Max	Feb-2016 05/02/2016	1.78 µg/m ³
AAQMS-4 (OCL COLONY)	NO2	Min	Feb-2016 08/02/2016	5.96 µg/m ³
		Max	Feb-2016 05/02/2016	8.21 µg/m ³
AAQMS-4 (OCL COLONY)	NOX	Min	Feb-2016 07/02/2016	6.52 µg/m ³
		Max	Feb-2016 05/02/2016	9.93 µg/m ³
AAQMS-4 (OCL COLONY)	PM10	Min	Feb-2016 10/02/2016	24.34 µg/m ³
		Max	Feb-2016 06/02/2016	99.40 µg/m ³
AAQMS-4 (OCL COLONY)	PM2.5	Min	Feb-2016 10/02/2016	14.35 µg/m ³
		Max	Feb-2016 06/02/2016	29.76 µg/m ³

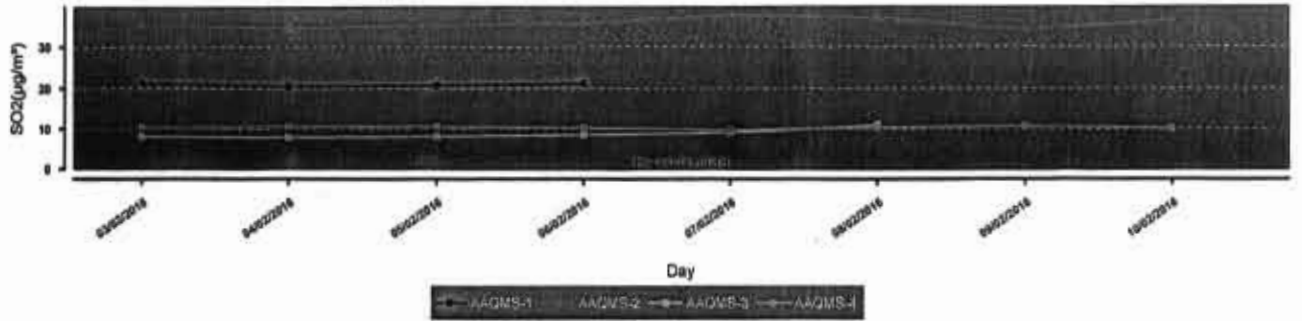
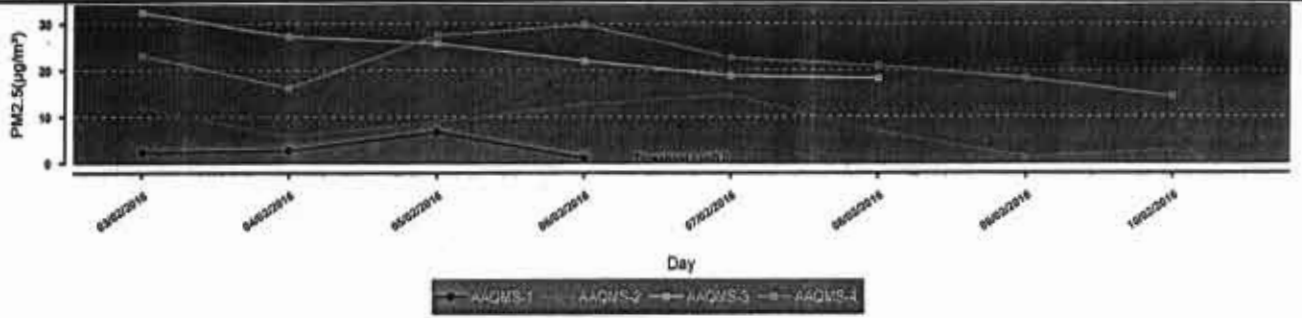
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AAQMS-4 (OCL COLONY)	SO2	Min	Feb-2016 07/02/2016	9.89 µg/m ³
		Max	Feb-2016 09/02/2016	10.81 µg/m ³

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Station Id.	Location	Station Id.	Location	Station Id.	Location
CEMS-1	LINE-1 KILN ESP	CEMS-4	LINE-1 CVRM-1 BAG HOUSE	CEMS-8	LINE-2 COAL MILL BAG HOUSE
CEMS-10	CPP	CEMS-5	LINE-1 CVRM-2 BAG HOUSE	CEMS-9	LINE-2 COOLER ESP
CEMS-2	LINE-1 COAL MILL BAG HOUSE	CEMS-6	LINE-1 CVRM-3 BAG HOUSE		
CEMS-3	LINE-1 COOLER ESP	CEMS-7	LINE-2 KILN REVERSE AIR BAG HOUSE		

Day	Station Id.	NOX (in mg/Nm ³)	PM (in mg/Nm ³)	SOX (in mg/Nm ³)
03/02/2016	CEMS-1	AV: 274.31 MN: 17.94 MX: 375.00	AV: 38.63 MN: 29.50 MX: 56.06	AV: 24.52 MN: 9.31 MX: 35.56
03/02/2016	CEMS-10	AV: 150.94 MN: 111.56 MX: 193.00	AV: 16.73 MN: 12.00 MX: 21.37	AV: 183.55 MN: 135.44 MX: 234.88
03/02/2016	CEMS-2	NA	AV: 21.22 MN: 1.50 MX: 65.12	
03/02/2016	CEMS-3	NA	AV: 3.87 MN: 3.75 MX: 3.94	
03/02/2016	CEMS-4	NA	AV: 34.44 MN: 33.63 MX: 35.19	
03/02/2016	CEMS-5	NA	AV: 10.29 MN: 8.03 MX: 22.78	
03/02/2016	CEMS-6	NA	AV: 43.64 MN: 37.50 MX: 49.81	
03/02/2016	CEMS-7	AV: 302.20 MN: 82.13 MX: 332.62	AV: 22.36 MN: 13.86 MX: 38.96	AV: 5.51 MN: 4.41 MX: 6.66
03/02/2016	CEMS-8	NA	AV: 4.40 MN: 3.43 MX: 8.99	
03/02/2016	CEMS-9	NA	AV: 27.91 MN: 18.92 MX: 71.87	
04/02/2016	CEMS-1	AV: 174.23 MN: 1.62 MX: 419.50	AV: 64.08 MN: 20.37 MX: 159.00	AV: 9.05 MN: 1.50 MX: 35.31
04/02/2016	CEMS-10	AV: 137.97 MN: 111.56 MX: 193.00	AV: 15.21 MN: 12.00 MX: 21.37	AV: 167.56 MN: 135.44 MX: 234.88
04/02/2016	CEMS-2	NA	AV: 30.49 MN: 5.81 MX: 603.75	
04/02/2016	CEMS-3	NA	AV: 3.89 MN: 3.88 MX: 4.31	
04/02/2016	CEMS-4	NA	AV: 36.46 MN: 36.37 MX: 36.56	
04/02/2016	CEMS-5	NA	AV: 10.91 MN: 9.16 MX: 14.16	
04/02/2016	CEMS-6	NA	AV: 41.50 MN: 40.87 MX: 42.12	
04/02/2016	CEMS-7	AV: 259.22 MN: 56.25 MX: 305.34	AV: 25.45 MN: 17.67 MX: 68.12	AV: 5.17 MN: 3.66 MX: 6.00
04/02/2016	CEMS-8	NA	AV: 9.49 MN: 3.37 MX: 152.66	
04/02/2016	CEMS-9	NA	AV: 39.58 MN: 20.23 MX: 211.35	
05/02/2016	CEMS-1	AV: 236.49 MN: 1.62 MX: 362.56	AV: 26.27 MN: 16.06 MX: 52.88	AV: 12.15 MN: 1.50 MX: 27.00
05/02/2016	CEMS-10	AV: 160.96 MN: 111.25 MX: 193.94	AV: 17.92 MN: 12.00 MX: 21.37	AV: 195.64 MN: 135.44 MX: 237.00
05/02/2016	CEMS-2	NA	AV: 24.13 MN: 9.56 MX: 107.44	
05/02/2016	CEMS-3	NA	AV: 13.05 MN: 3.88 MX: 848.75	
05/02/2016	CEMS-4	NA	AV: 28.89 MN: 28.31 MX: 30.06	
05/02/2016	CEMS-5	NA	AV: 13.14 MN: 10.31 MX: 25.56	
05/02/2016	CEMS-7	AV: 247.24 MN: 45.00 MX: 302.44	AV: 26.68 MN: 17.92 MX: 119.51	AV: 5.49 MN: 4.22 MX: 10.09
05/02/2016	CEMS-8	NA	AV: 6.45 MN: 3.18 MX: 8.12	

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Day	Status Id	NOX (in µg/Nm ³)	PM (in µg/Nm ³)	SOX (in µg/Nm ³)
05/02/2016	CEMS-9	NA	av: 68.94 mn: 32.34 mx: 517.86	
06/02/2016	CEMS-1	av: 202.22 mn: 1.69 mx: 351.31	av: 31.10 mn: 16.06 mx: 48.81	av: 13.16 mn: 1.50 mx: 24.19
06/02/2016	CEMS-10	av: 164.04 mn: 111.31 mx: 193.00	av: 18.28 mn: 12.00 mx: 22.19	av: 199.36 mn: 135.44 mx: 237.00
06/02/2016	CEMS-2	NA	av: 28.13 mn: 7.56 mx: 128.69	
06/02/2016	CEMS-3	NA	av: 9.03 mn: 3.75 mx: 292.94	
06/02/2016	CEMS-4	NA	av: 30.11 mn: 29.06 mx: 31.63	
06/02/2016	CEMS-5	NA	av: 14.88 mn: 10.37 mx: 55.69	
06/02/2016	CEMS-6	NA	av: 43.75 mn: 21.47 mx: 55.47	
06/02/2016	CEMS-7	av: 247.52 mn: 46.97 mx: 317.72	av: 29.82 mn: 15.80 mx: 151.97	av: 5.35 mn: 4.22 mx: 38.62
06/02/2016	CEMS-8	NA	av: 6.53 mn: 3.50 mx: 68.43	
06/02/2016	CEMS-9	NA	av: 51.77 mn: 21.54 mx: 185.94	
07/02/2016	CEMS-1	av: 257.53 mn: 1.81 mx: 360.81	av: 40.22 mn: 35.13 mx: 53.19	av: 21.29 mn: 5.50 mx: 28.37
07/02/2016	CEMS-10	av: 145.99 mn: 111.62 mx: 193.00	av: 16.16 mn: 12.00 mx: 21.37	av: 177.34 mn: 135.44 mx: 234.88
07/02/2016	CEMS-2	NA	av: 27.48 mn: 11.62 mx: 63.94	
07/02/2016	CEMS-3	NA	av: 11.14 mn: 3.75 mx: 273.50	
07/02/2016	CEMS-4	NA	av: 29.13 mn: 28.50 mx: 29.87	
07/02/2016	CEMS-5	NA	av: 9.87 mn: 8.94 mx: 11.03	
07/02/2016	CEMS-6	NA	av: 52.52 mn: 49.78 mx: 54.00	
07/02/2016	CEMS-7	av: 253.62 mn: 60.56 mx: 294.66	av: 22.77 mn: 16.23 mx: 27.72	av: 5.93 mn: 4.97 mx: 6.94
07/02/2016	CEMS-8	NA	av: 6.60 mn: 5.12 mx: 7.99	
07/02/2016	CEMS-9	NA	av: 28.71 mn: 16.73 mx: 48.20	
08/02/2016	CEMS-1	av: 297.76 mn: 8.94 mx: 523.62	av: 32.85 mn: 14.00 mx: 60.12	av: 39.82 mn: 11.69 mx: 55.19
08/02/2016	CEMS-10	av: 163.55 mn: 111.56 mx: 193.00	av: 18.20 mn: 11.94 mx: 22.31	av: 198.57 mn: 135.44 mx: 237.00
08/02/2016	CEMS-2	NA	av: 33.74 mn: 19.94 mx: 78.94	
08/02/2016	CEMS-3	NA	av: 19.17 mn: 3.75 mx: 556.12	
08/02/2016	CEMS-4	NA	av: 30.70 mn: 29.50 mx: 33.06	
08/02/2016	CEMS-5	NA	av: 10.28 mn: 8.03 mx: 19.34	
08/02/2016	CEMS-6	NA	av: 40.39 mn: 31.84 mx: 58.19	
08/02/2016	CEMS-7	av: 242.28 mn: 67.41 mx: 300.09	av: 18.55 mn: 14.17 mx: 35.46	av: 5.18 mn: 4.78 mx: 5.81
08/02/2016	CEMS-8	NA	av: 9.80 mn: 3.43 mx: 95.47	

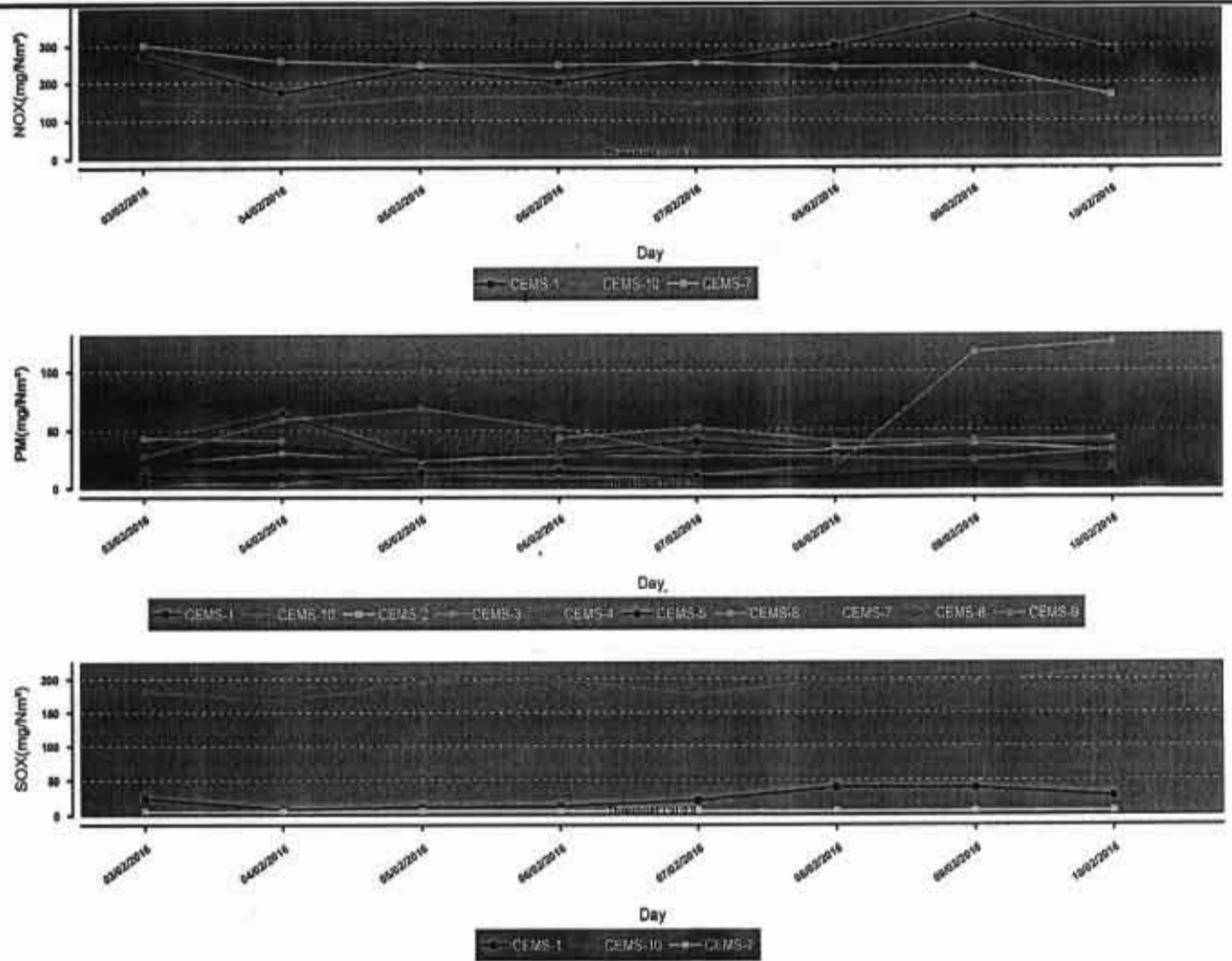


Day	Station Id.	NOx (in µg/lit)	PM (in µg/lit)	SOx (in µg/lit)
08/02/2016	CEMS-9	NA	av: 26.88 mn: 17.17 mx: 92.97	
09/02/2016	CEMS-1	av: 380.73 mn: 101.75 mx: 473.12	av: 39.73 mn: 20.00 mx: 143.87	av: 38.78 mn: 12.50 mx: 82.87
09/02/2016	CEMS-10	av: 161.74 mn: 111.56 mx: 193.94	av: 17.99 mn: 11.94 mx: 21.37	av: 196.52 mn: 135.44 mx: 237.00
09/02/2016	CEMS-2	NA	av: 39.04 mn: 23.13 mx: 94.06	
09/02/2016	CEMS-3	NA	av: 115.35 mn: 3.88 mx: 975.50	
09/02/2016	CEMS-6	NA	av: 31.26 mn: 27.06 mx: 33.00	
09/02/2016	CEMS-5	NA	av: 14.99 mn: 9.84 mx: 41.94	
09/02/2016	CEMS-6	NA	av: 41.48 mn: 39.16 mx: 42.66	
09/02/2016	CEMS-7	av: 243.36 mn: 44.78 mx: 318.19	av: 17.18 mn: 10.41 mx: 60.00	av: 5.60 mn: 3.84 mx: 7.03
09/02/2016	CEMS-8	NA	av: 14.85 mn: 6.93 mx: 217.53	
09/02/2016	CEMS-9	NA	av: 24.72 mn: 16.41 mx: 100.59	
10/02/2016	CEMS-1	av: 285.49 mn: 1.62 mx: 423.44	av: 36.52 mn: 22.00 mx: 81.31	av: 27.69 mn: 1.56 mx: 58.38
10/02/2016	CEMS-10	av: 176.62 mn: 115.69 mx: 193.94	av: 19.69 mn: 12.62 mx: 21.37	av: 214.66 mn: 141.00 mx: 237.00
10/02/2016	CEMS-2	NA	av: 31.72 mn: 0.25 mx: 99.50	
10/02/2016	CEMS-3	NA	av: 123.32 mn: 8.50 mx: 615.19	
10/02/2016	CEMS-4	NA	av: 31.81 mn: 31.56 mx: 33.19	
10/02/2016	CEMS-5	NA	av: 11.88 mn: 11.44 mx: 13.75	
10/02/2016	CEMS-6	NA	av: 42.84 mn: 33.12 mx: 54.88	
10/02/2016	CEMS-7	av: 166.77 mn: 6.09 mx: 280.03	av: 8.12 mn: 5.99 mx: 26.54	av: 5.58 mn: 4.41 mx: 6.84
10/02/2016	CEMS-8	NA	av: 8.00 mn: 6.99 mx: 60.25	



Extreme Aggregations

Station	Parameter	Extn.	Date	Extn. Val.
CEMS-1 (LINE-1 KILN ESP)	NOX	Min	Feb-2016 04/02/2016	174.23 mg/Nm ³
		Max	Feb-2016 09/02/2016	380.73 mg/Nm ³
CEMS-1 (LINE-1 KILN ESP)	PM	Min	Feb-2016 05/02/2016	26.27 mg/Nm ³
		Max	Feb-2016 04/02/2016	64.08 mg/Nm ³
CEMS-1 (LINE-1 KILN ESP)	SOX	Min	Feb-2016 04/02/2016	9.05 mg/Nm ³
		Max	Feb-2016 08/02/2016	39.82 mg/Nm ³
CEMS-10 (CPP)	NOX	Min	Feb-2016 04/02/2016	137.97 mg/Nm ³
		Max	Feb-2016 10/02/2016	176.63 mg/Nm ³
CEMS-10 (CPP)	PM	Min	Feb-2016 04/02/2016	15.21 mg/Nm ³
		Max	Feb-2016 10/02/2016	19.69 mg/Nm ³
CEMS-10 (CPP)	SOX	Min	Feb-2016 04/02/2016	167.56 mg/Nm ³
		Max	Feb-2016 10/02/2016	214.66 mg/Nm ³
CEMS-2 (LINE-1 COAL MILL BAG HOUSE)	PM	Min	Feb-2016 03/02/2016	21.22 mg/Nm ³
		Max	Feb-2016 09/02/2016	39.04 mg/Nm ³
CEMS-3 (LINE-1 COOLER ESP)	PM	Min	Feb-2016 03/02/2016	3.87 mg/Nm ³
		Max	Feb-2016 10/02/2016	123.32 mg/Nm ³
CEMS-4 (LINE-1 CVRM-1 BAG HOUSE)	PM	Min	Feb-2016 05/02/2016	28.89 mg/Nm ³
		Max	Feb-2016 04/02/2016	36.46 mg/Nm ³
CEMS-5 (LINE-1 CVRM-2 BAG HOUSE)	PM	Min	Feb-2016 07/02/2016	9.87 mg/Nm ³
		Max	Feb-2016 09/02/2016	14.99 mg/Nm ³
CEMS-6 (LINE-1 CVRM-3 BAG HOUSE)	PM	Min	Feb-2016 08/02/2016	40.39 mg/Nm ³
		Max	Feb-2016 07/02/2016	52.52 mg/Nm ³
CEMS-7 (LINE-2 KILN REVERSE AIR BAG HOUSE)	NOX	Min	Feb-2016 10/02/2016	166.77 mg/Nm ³
		Max	Feb-2016 03/02/2016	302.20 mg/Nm ³
CEMS-7 (LINE-2 KILN REVERSE AIR BAG HOUSE)	PM	Min	Feb-2016 10/02/2016	6.12 mg/Nm ³
		Max	Feb-2016 06/02/2016	29.82 mg/Nm ³
CEMS-7 (LINE-2 KILN REVERSE AIR BAG HOUSE)	SOX	Min	Feb-2016 04/02/2016	5.17 mg/Nm ³
		Max	Feb-2016 07/02/2016	5.93 mg/Nm ³
CEMS-8 (LINE-2 COAL MILL BAG HOUSE)	PM	Min	Feb-2016 03/02/2016	4.40 mg/Nm ³
		Max	Feb-2016 09/02/2016	14.85 mg/Nm ³
CEMS-9 (LINE-2 COOLER ESP)	PM	Min	Feb-2016 09/02/2016	24.72 mg/Nm ³
		Max	Feb-2016 05/02/2016	68.94 mg/Nm ³





BY SPEED POST

FAX : 0674-2564573/2562822/2560955
 Tel : 2564033/2563924
 EPABX : 2561909/2562847
 E-mail: hwmd@ospcboard.org /
 paribeshi@ospcboard.org
 Website: www.ospcboard.org

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII
 Bhubaneswar - 751 012, INDIA

FORM 2
 [See rules 5(4)]

GRANT / RENEWAL OF AUTHORIZATION FOR COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT AND DISPOSAL OF HAZARDOUS WASTE

- Number of authorization IND-IV-HW-721/ 6015 and date of issue 31.03 / 2015.
- M/S ORISSA WASTE MANAGEMENT PROJECT, A DIVISION OF M/S RAMKY ENVIRO ENGINEERS LIMITED is hereby granted an authorization to operate a facility for handling, collection, reception, treatment, storage, transport and disposal of hazardous waste on the premises situated at - PLOT NO. 420/648/1, VILL: KANCHICHUAN, VIA: SUKINDA, PO: MANGALPUR, DIST: JAJPUR, ODISHA -755018
- The authorization shall be in force for a period up to 31-03-2020.
- The authorization is subject to the conditions stated below and such conditions as may be specified in the Rules for the time being in force under the Environment (Protection) Act, 1986.
- The applicant shall operate the CHW-TSDF for the following quantity of hazardous waste,

Sl. No.	Waste Description	Quantity/A
1.	Secured Land Fill (SLF)	25,000 T
2.	Waste Treatment and Stabilization	12,000 T
3.	Incinerable Hazardous Waste storage (No incineration activity)	3000 T

TERMS AND CONDITIONS OF AUTHORIZATION

GENERAL CONDITIONS

- This authorization does not permit you to either receive and process or generate hazardous waste in case validity of Consent to Operate of your unit ceases. However you can carry out handling, storage, treatment, transport and disposal of hazardous waste generated previously during such period to avoid accumulation of hazardous waste.
- The authorization shall comply with the provisions of the Environment (Protection) Act, 1986, and the Rules made there under.
- The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.

4. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes without obtaining prior, permission of the State Pollution Control Board.
5. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
6. It is the duty of the authorized persons to take prior permission of the State Pollution Control Board to close down the facility.
7. An application for the renewal of an authorization shall be made as laid down under these Rules.
8. Any other conditions for compliance as per the Guidelines issued by the MoEF or Central Pollution Control Board.
9. This authorization is subject to statutory and other clearances from Govt. of Odisha and / or Govt. of India as and when applicable.
10. In case of any damages caused to the environment due to improper handling and disposal of hazardous waste, the occupier, transporter and operator shall be liable to pay financial penalties as levied for any violation of the Provisions under these Rules by State Pollution Control Board with the approval of Central Pollution Control Board (Rule 25).

SPECIAL CONDITIONS

1. The Operator shall strictly comply to the provisions of Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 and amendments made thereafter.
2. Annual returns in Form - 4 (See Rules- 5(6) & 22(2)) shall be submitted to the Board for the financial year by 30th June of every year. It shall contain the detail quantities of generation, storage and disposal of different type of hazardous wastes such as recyclable, incinerable, land disposable.
3. Steps shall be taken for reduction and prevention of the hazardous waste generated or for recycling or reuse.
4. Environmental Information with respect to Air, Water, Hazardous Waste and Hazardous Chemicals shall be displayed at the main gate for public view.
5. The operator shall establish a system for optimal movement of Hazardous Waste transportation, treatment and disposal options.
6. Transportation of hazardous waste shall be done in accordance with the provisions of the Rules-20 & the Rules made by the Central Government under the Motor Vehicle Act, 1988 and other guidelines issued from time to time in this regard. Manifest system (Movement document) shall be strictly followed as per Rule-21. The operator shall check the authenticity of the way bill of the transport vehicle to ensure supply of hazardous waste to the authorized destination.
7. The unit shall apply for renewal of authorization in Form-1, 120 days before expiry of this authorization order enclosing Annual Return in Form-4, Manifest copies in Form-13 and compliance to the conditions stipulated in this order along with adequate processing fees.
8. The operator shall receive Hazardous waste comprehensive analysis report prima-facie from the generator of Hazardous Waste Authorized by SPCB, Odisha followed by fingerprinting analysis of the waste to match with the earlier analysis and identify and plan the pathways for disposal into secured land fill as per the "Guidelines for proper Functioning and upkeep of disposal sites".

Disposal in the TSDF shall be done imparting necessary treatment / stabilization ensuring compliances with "concentration criteria for acceptance of Hazardous Waste for direct disposal to Secured Land Fill (SLF) as prescribed in "Guidelines for proper Functioning and upkeep of disposal sites" published by CPCB and MoEF & CC.

10. The operator shall create adequate awareness to draw attention of generators of hazardous waste and plan and facilitate a common collection system for collection and transportation of Hazardous Waste generated from the small industries to dispose in TSDF and to enhance cumulative disposal of hazardous waste in TSDF.
11. Under no circumstances, the operator shall dispose Schedule-IV waste into TSDF.

ADDITIONAL CONDITIONS

1. All the internal roads shall be blacktopped including approach roads by 30-09-2015.
2. Multi-stage evaporator system has to be installed in the site at the leachate management pond before 30-09-2015.
3. Surface run-off shall be collected in an impervious lined settling pit of adequate size and after treatment it shall be contained in rain water harvesting pond.


Member Secretary

To
The Project Head-Business Development
Odisha Waste Management Project,
M/S Ramky Enviro Engineers Limited
Plot No. 420/648/1, Vill: Kanchichuan,
Via: Sukinda, PO: Mangalpur, Dist: Jajpur, Odisha -755018



Memo No. 6016 /

Dt. 31.03.15 /

Copy to:

1. Collector & District Magistrate, Jajpur.
2. Director, Factories & Boilers, Odisha, Bhubaneswar
3. Regional Officer, State Pollution Control Board, Odisha, Kalinganagar.
4. Guard file.


Sr. Env. Engineer, L-I (C)

OTC

Regd. Post



Himachal Pradesh State Pollution Control Board
Him Parivesh, Phase-III, New Shimla-171009
Ph No 0177-2673276, 2673766, Fax No.:2673018

No: PCB/ HWMR/Ambuja Cement Ltd. (Co-Processing)/2015 21484-15 Dated 12/02/16

From: Member Secretary

To

Sh P.K. Gupta, Addl. Director/ SC. E
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
Delhi-110032

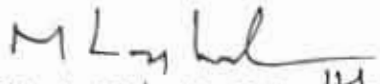
Sub: Information w.r.t Issues raised by the Applicant on 21.01.2016 on Co-processing of wastes in Cement Kiln- Hon'ble NGT Order.

Sir

This is in reference to your letter No B-33014/7/2016/PCI-II dated February 8, 2016 on the above cited subject.

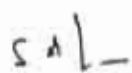
In this context, I am directed to inform you that the State Board has already submitted its reply to the original application no 178/2014 in the Hon'ble NGT on dated 16.10.2014 (copy of which is enclosed herewith). However, as desired the latest information regarding co-processing of Hazardous waste in Cement Kilns as per proforma supplied is enclosed herewith for further necessary action please.

Encl: As above


Principal Scientific Officer 14/2/2016

Copy To

The Law Officer HP State Pollution Control Board, Shimla for information please.


Principal Scientific Officer

Shweta Narayan V. Union of India and Ors.

(O.A.178 of 2014)

<u>State Pollution Control Board</u>	<u>Grant and Renewal of registration/ authorization Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008</u>	<u>Emission Monitoring & Compliance</u>	<u>Inventorization of waste Rule 5(6), 8(7) & 22(3) & Schedule VIII r/w Rule 23 of the Hazardous waste Rules, 2008</u>	<u>Training and awareness</u>	<u>Valid recognition of Environmental Laboratories</u>	<u>Identification of site for TSDF</u>	<u>Compliance with the EIA Notification of 2006</u>
(1)	Authorization/ Permission granted for Co-processing of HW in Cement Plants	Rule 6,18,24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	Rule 23 of the Hazardous waste Rules, 2008	Schedule VII r/w Rule 23 of the Hazardous waste Rules, 2008	Section 12 of the EPA, 1986	Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	
Himachal Pradesh State Pollution Control Board, Shimla	M/s ACC Ltd., Gagal Cement Works, PO Barmana, Distt. Bilaspur (HP) vide letter No. 22851-57 dated 05.02.2014, letter No. 26601-7 dated 24.02.2015 and letter No. 4850-55 dated 26.06.2015 (Copies enclosed at Annexure- R ₆ /A1a	Latest monitoring results of the unit are enclosed at Annexure- R ₆ /A2a	Waste co-processed in the Cement Kiln of M/s ACC Ltd., Gagal Cement Works, Barmana is enclosed at Annexure R ₆ /A3	Seven nos. of officers from the State Board attended the various training programs organised by the CPCB on Hazardous Waste Management (List enclosed at Annexure R ₆ /A4	The State Board has applied for the renewal of recognition of its Central Laboratory under EPA act 1986, after the expiry of previous recognition which was valid up to 30-04-2011 (copy enclosed at Annexure R ₆ /A5	Duly notified TSDF Facility is in operation in the State since June 2008 at Village Majra, PO Dhabota, Tehsil Nalagarh, Distt. Solan (HP) operated by M/s Shivalk Solid Waste Management Ltd.,	NA
	M/s Ambuja Cement Ltd. (Suli Unit), PO Daralaghat, Tehsil Arki, Distt. Solan (HP) vide letter No. 1851-61 dated 12.05.2015 (Copies enclosed at Annexure- R ₆ /A1b	Latest monitoring results of the unit are enclosed at Annexure- R ₆ /A2b	Waste co-processed in the Cement Kiln of M/s Ambuja Cement Ltd. (Suli Unit), Daralaghat is enclosed at Annexure R ₆ /A3	Annexure R ₆ /A4	Annexure R ₆ /A5		NA

ANNEXURE - R6/A1a.

H.P.STATE POLLUTION CONTROL BOARD
"HIM PARIVESH" PHASE-III, BELOW BCS, NEW SHIMLA-9
Ph. No. 0177-2673766, 2673032, 2673020, Fax No. 2673018

PCB/HWMR (150)/ACC Ltd. Barmana/ 2013-

22851-57

Dated:

05-2-14

M/s ACC Ltd. (Unit-I),
Gagal Cement Works,
PO Barmana, Distt. Bilaspur (HP)

Sub: Authorization/ Permission for operating a facility for Co-processing of Hazardous Waste i.e ETP Sludge of M/s Procter & Gamble Home Products Ltd., at ACC Ltd., Barmana, Distt. Bilaspur under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 as amended from time to time

Sir,

This has reference to the Central Pollution Control Board, New Delhi letter No. B-3314/ 2013/ PCI-III/ 5639 dated 04.10.2013 on the subject cited above. In this regard you are hereby authorized for carrying out co-processing of Hazardous Waste namely ETP Sludge of M/s Procter & Gamble Home Products Ltd, Baddi in the cement kiln of your unit at Barmana as per approval of CPCB, New Delhi. You are directed to comply with the following conditions for carrying out the co-processing of hazardous waste in the cement kiln of your unit.

1. The Authorization/ permission is valid upto 31.03.2018 from the date of issue of this letter for co-processing of hazardous waste i.e. ETP Sludge for which trial run has been carried out, not exceeding 3000 T/ year as recommended by Sr. Environmental Engineer, Baddi vide letter No. 2157, dated 20.12.2013.
2. Guidelines for the transportation of hazardous waste issued by the Central Pollution Control Board shall be followed. You shall also comply with the decision conveyed vide this office letter No. PCB/HWMR/(XV)/ 2009-23603-17, dated 08.02.2012.
3. You shall keep the waste segregated depending upon the nature of waste in leak proof container in a separate covered storage place meant specially for the storage of such waste not beyond 90 days in any case. Precaution shall be taken to prevent any accident/ fire due to handling/ storage of such waste and you shall submit OSEP to this office. A preliminary hazard analysis should be conducted safely. Audit internally by the facility operator every year & extremely once in two years by a reputed expert agency should be carried out and same should be submitted to the HPSPCB.
4. You shall maintain record of disposal of hazardous waste in Form-3 and submit copy of manifest in Form-13 as prescribed in Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 regularly and annual return in Form-4 by 30th June of every year to this office.
5. You are directed to meet the particulate matter emission standards and other standards as prescribed in the COP/RCOP issued to your unit by this Board and shall also monitor the emission level of HCL, SO₂, CO, Total Organic Carbon, HF, NO_x, Total dioxins and furans, Cd+Ti+ their compounds, Hg and its compounds, Sb + As + Pb + Co + Cr + Cu + Mn + Ni + V + their compounds during pre co-processing and during co-processing of above mentioned hazardous waste in the cement kiln of your unit and shall ensure that emissions are not exceeding the base line emissions i.e. during pre co-processing phase and shall submit the emission monitoring report to this office. The continuous measurement of particulate matter emission shall be carried out at co-processing plant and the emission data shall be submitted to CPCB and to HPSPCB. As per directions of CPCB, monitoring of dioxins and furans including other parameters will be done by the cement plant.
6. You shall also maintain ambient air quality standards as notified by the MoEF on 16th November 2009 and also submit the monitoring report to this office.
7. You shall also comply with the requirements in accordance to the Public Liability Insurance Act, 1991 as amended during co-processing.
8. You shall also apply through Regional Officer, HPSPC, Bilaspur to this Office along with the data and emission report for further extension of the permission before expiry of the validity of this permission

PTO

075	076	077
078	079	080

- 1. The cement plant shall take the hazardous waste...
- 2. Log book of waste co-processed shall be maintained...
- 3. Cement plant shall install continuous emission monitoring system...
- 4. Cement plant shall adhere to the conditions imposed by CPCB...

You shall not co-process any other type of waste without the permission of the State Board. If the directions of the State Board is observed, the State Board shall be liable against you at your own risk and cost. The State Board reserves the right to change or revoke, change or alter any of the conditions.

(Signature)
Member Secretary

Copy to following for information and necessary action:

- 1. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, Sector 3, Connaught Place, Delhi - 110032 for information in reference to letter No. B-3314/2013/PC-1364 dated...
- 2. The Sr. Environmental Engineer-I/ Sr. Environmental Engineer-II, HPSPCB, Shimla...
- 3. The Sr. Environmental Engineer, HPSPCB, Regional Office, Baddi for information and compliance of provisions of Hazardous Waste Management Rules for transport...
- 4. The Environmental Engineer, HPSPCB, Regional Office, Bilaspur, Distt. East...
- 5. M/s. Pooja & Gamble Home Products Ltd. (Unit-I), Plot No. 1, Industrial Area...
- 6. M/s. Shreeji Solid Waste Management Ltd., Village Majra, PO Dabhota, Tehsil...

(Vineet Kumar)
Member Secretary

150
(315)

B/11/MR (1809) Sarvotham Remedies, 2014-

26601-7

Dated:

24.2.15

M/s ACC Ltd. (Unit-I),
Gagal Cement Works,
PO Barmana, Distt. Bilaspur (HP)

Sub: Authorization/ Permission for operating a facility for Co-processing of Hazardous Waste i Vicks Process Waste of M/s Sarvotham Remedies Ltd. Village Katha, PO Baddi, Tehsil Nalagar, Distt. Solan in the cement Kiln of ACC Ltd., Barmana, Distt. Bilaspur under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 as amended from time to time

Sir,

This has reference to the Central Pollution Control Board, New Delhi letter No. B- 33014/ H-35/ 2006 PCI-III/ 2747 dated 04.1.2012 on the subject cited above. In this regard you are hereby authorized for carrying out co-processing of Hazardous Waste namely Vicks Process Waste of M/s Sarvotham Remedies Ltd. Village Katha, PO Baddi, Tehsil Nalagarh, Distt. Solan in the cement kiln of your unit at Barmana as per approval of CPCB, New Delhi. You are directed to comply with the following conditions for carrying out the co-processing of hazardous waste in the cement kiln of your unit.

1. The Authorization/ permission is valid upto 31.03.2018 from the date of issue of this letter for co processing of hazardous waste i.e. Vicks Process Waste for which trial run has been carried out, not exceeding 50T/ year as recommended by Sr. Environmental Engineer, Baddi vide letter No. 3670 dated 29.09.2014 and letter No. 4987 dated 06.01.2015.
2. Guidelines for the transportation of hazardous waste issued by the Central Pollution Control Board shall be followed.
3. You shall keep the waste segregated depending upon the nature of waste in leak proof container in a separate covered storage place meant specially for the storage of such waste not beyond 90 days in any case. Precaution shall be taken to prevent any accident/ fire due to handling/ storage of such waste and you shall submit OSEP to this office. A preliminary hazard analysis should be conducted safely. Audit internally by the facility operator every year & extremely once in two years by a reputed expert agency should be carried out and same should be submitted to the HPSPCB.
4. You shall maintain record of disposal of hazardous waste in Form-3 and submit copy of manifest in Form-13 as prescribed in Hazardous Waste (Management, Handling, & Transboundary Movement) Rules, 2008 regularly and annual return in Form-4 by 30th June of every year to this office.
5. You are directed to meet the particulate matter emission standards and other standards as prescribed in the COP/RCOP issued to your unit by this Board and shall also monitor the emission level of HCL, SO₂, CO, Total Organic Carbon, HF, NO_x, Total dioxins and furans, Cd+Ti+ their compounds, Hg and its compounds, Sb + As + Pb + Co + Cr + Cu + Mn + Ni + V + their compounds during pre co-processing and during co-processing of above mentioned hazardous waste in the cement kiln of your unit and shall ensure that emissions are not exceeding the base line emissions i.e. during pre co-processing phase and shall submit the emission monitoring report to this office. The continuous measurement of particulate matter emission shall be carried out at co-processing plant and the emission data shall be submitted to CPCB and to HPSPCB. As per directions of CPCB, monitoring of dioxins and furans including other parameters will be done by the cement plant.
6. You shall also maintain ambient air quality standards as notified by the MoEF on 16th November 2009 and also submit the monitoring report to this office.
7. You shall also comply with the requirements in accordance to the Public Liability Insurance Act, 1991 as amended during co-processing.
8. You shall also apply through Regional Officer, HPSPC, Bilaspur to this Office along with the data and emission report for further extension of the permission before expiry of the validity of this permission

PTO


9. The cement plant shall take hazardous waste only from the authorized generators.
10. A log book of waste co-processed shall be monitored including emission monitoring during processing.
11. Cement plant shall install continuous emission monitoring system for monitoring the emissions.
12. Cement plant shall adhere to the conditions imposed by CPCB vide letter No. 5639, dated 04.1.2012.

You shall not co-process any other type of waste without the permission of the State Board. If the directions of the State Board is observed, the State Board shall be constrained to take any action against you at your own risk and cost. The State Board reserves the right to review/ impose condition or revoke, change or alter any of the conditions.

(Vineet Kumar)
Member Secretary
HPSPCB

Copy to following for information and necessary action:-

1. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, Esat Arjun Nagar, New Delhi - 110032 for information in reference to letter No. B-33014/ H-35/ 2009/ PCI-II/ 2747 dated 04.1.2012.
2. The Sr. Environmental Engineer-II/ Sr. Environmental Engineer-II, HPSPCB, Shimla for information.
3. The Sr. Environmental Engineer, HPSPCB, Regional Office, Baddi for information and ensure the compliance of provisions of Hazardous Waste Management Rules for transportation of waste to the cement plant for co-processing.
4. The Environmental Engineer, HPSPCB, Regional Office, Bilaspur, Distt. Bilaspur (HP) for information and necessary action. He is directed to ensure compliance of the conditions as referred above and also to ensure the compliance of air quality standards (both ambient as well as source) during co-processing.
5. M/s Sarvotham Remedies Ltd. Village Katha, PO Baddi, Tehsil Nalagarh, Distt. Solan (HP) for information and necessary action.
6. Case File


(Vineet Kumar) IES
Member Secretary
HPSPCB



(375)

H.P. STATE POLLUTION CONTROL BOARD
"HIM PARIVESH" PHASE-III, BELOW BCS, NEW SHIMLA-9
Ph. No. 0177-2673766, 2673032, 2673020, Fax No. 2673018

No. PCB/ HWMR (150)/ M/s ACC Barmana (Unit-I) BLP/15- 4850-55

Dated:

26-6-2015

To

M/s ACC Ltd. (Unit-I),
Gagal Cement Works,
PO Barmana, Distt. Bilaspur (HP)

Sub: Authorization/ Permission for operating a facility for Co-processing of Non-Hazardous Waste i.e. Expired Shampoos/Soap/Cream/Tooth paste/Body lotion/Talcum powder/Hair Oil in the Cement Kiln of M/s ACC Ltd., Barmana generated by M/s Hindustan Unilever Ltd. at Bulk Depot., Parwanoo, Distt. Solan under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 as amended from time to time.

Sir,

This has a reference to the "Guidelines on co-processing in Cement/Power/Steel industries" issued by the Central Pollution Control Board, New Delhi in Feb 2010. In this regard you are hereby authorized for carrying out co-processing of non-Hazardous Waste namely **Shampoos/Soap/Cream/Tooth paste/Body lotion/Talcum powder/Hair Oil** of **M/s Hindustan Unilever Ltd. at Bulk Depot., Parwanoo, Distt. Solan** in the cement kiln of your unit at Barmana as per approval of CPCB, New Delhi. You are directed to comply with the following conditions for carrying out the co-processing of hazardous waste in the cement kiln of your unit.

1. The Authorization/ permission is valid upto 31.3.2018 from the date of issue of this letter for co-processing of non-hazardous waste i.e. **Shampoos/Soap/Cream/Tooth paste/Body lotion/Talcum powder/Hair Oil** as recommended by Environmental Engineer, Bilaspur vide letter No. 176, dated 30/4/2015.
2. Guidelines for the transportation of hazardous/non hazardous waste issued by the Central Pollution Control Board shall be followed.
3. You shall keep the waste segregated depending upon the nature of waste in leak proof container in a separate covered storage place meant specially for the storage of such waste. Precaution shall be taken to prevent any accident/ fire due to handling/ storage of such waste and you shall submit OSEP to this office. A preliminary hazard analysis should be conducted safely. Audit internally by the facility operator every year & extremely once in two years by a reputed expert agency should be carried out and same should be submitted to the HPSPCB.
4. You shall maintain record of disposal of non-hazardous waste in Form-3 and submit copy of manifest in Form-13 as prescribed in Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 regularly and annual return in Form-4 by 30th June of every year to this office.
5. The vehicle used for transportation shall be in accordance with the provisions under the Motor Vehicle Act, 1988 and Rules made there under.
6. You are directed to meet the particulate matter emission standards and other standards as prescribed in the COP/RCOP issued to your unit by this Board and shall also monitor the emission level of HCL, SO₂, CO, Total Organic Carbon, HF, NO_x, Total dioxins and furans, Cd+Pb+ their compounds, Hg and its compounds, Sb + As + Pb + Co + Cr + Cu + Mn + Ni + V + their compounds during pre co-processing and during co-processing of above mentioned hazardous waste in the cement kiln of your unit and shall ensure that emissions are not exceeding the base line emissions i.e. during pre co-processing phase and shall submit the emission monitoring report to this office. The continuous measurement of particulate matter emission shall be carried out at co-processing plant and the emission data shall be submitted to the office of CPCB, monitoring of dioxins and furans including

ANNEXURE R-6/A1b.

Annexure II

H.P. STATE POLLUTION CONTROL BOARD
"HIM PARIVESH" PHASE-III, BELOW BCS, NEW SHIMLA-9
Ph. No. 0177-2673766, 2673032, 2673020, Fax No. 2673018

149/ Ambuja Cement Ltd./ 2015-

135/61

Dated 12-5-2015

M/s Ambuja Cement Ltd. (Unit Suli),
PO Darlaghat,
Distt. Solan (HP)

Sub: Authorization/ Permission for operating a facility for Co-processing of Hazardous/ Non Hazardous Waste in the Cement Kiln of Ambuja Cement Ltd. Ltd. (Suli Unit), PO Darlaghat, Distt. Solan (HP) under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 as amended from time to time

Sir,

This has reference to the Central Pollution Control Board, New Delhi letter No. B- 33014/ H-24/ 2009/ PCI-II 5045 dated July, 29, 2009 and vide letter No. B-33014/ 2012/PCI-III/2684 dated 04.10.2012 on the subject cited above. In this regard you are hereby authorized for carrying out co-processing of Hazardous/ Non Hazardous Waste i.e.,

- i) **Food Grade Gelatin Waste** (Non hazardous waste) of M/s Abbott Health Care Pvt. Ltd. (Formerly Piramal Health Care Ltd.), Village Bhatoli Khurd, PO Baddi, Distt. Solan (HP), M/s Panacea Biotech Ltd., Village Malpur, P. Bhud, Badli, Distt. Solan (HP), M/s Ranbaxy Laboratories Ltd., Village Ganguwala, Paonta Sahib, Distt. Sirmor (HP) and M/s Unichem Laboratories, Village Bhatauli Kalan, Baddi, Distt. Solan (HP).
- ii) **Solid Waste Mix** (Hazardous Waste) of M/s Shivalik Solid Waste Management Ltd., Village Majra, PO Dabhot Tehsil Nalagarh, Distt. Solan (HP).
- iii) **Paint Sludge** (Hazardous Waste) of M/s TVS Motors Ltd. Bharatgarh Road, Village Bhatian, Nalagarh (Distt. Solan (HP).

in the cement kiln of your unit at PO Darlaghat (Suli Units) as per approval of CPCB, New Delhi. You are directed to comply with the following conditions for carrying out the co-processing of hazardous/ non hazardous waste in the cement kiln of your unit.

1. The Authorization/ permission is valid upto **31.03.2019** from the date of issue of this letter for co-processing hazardous/ non hazardous waste as mentioned above and as recommended by Environmental Engineer Parwanoo vide letter No. PCB/ EE/ Ambuja Cement Ltd. (Suli Unit) (141-A)/ 15-130 dated 24.04.2015.
2. Guidelines for the transportation of hazardous waste issued by the Central Pollution Control Board shall be followed. The waste should be transported through transporter authorized by this Board and in accordance with CPCB guidelines for transportation of Hazardous Waste. Returns regarding disposal of Hazardous Waste Form-4 & Hazardous Waste Manifest for transportation in Form-9 should be submitted to this Board regularly.
3. You shall keep the waste segregated depending upon the nature of waste in leak proof container in a separate covered storage place meant specially for the storage of such waste not beyond 90 days in any case. Precaution shall be taken to prevent any accident/ fire due to handling/ storage of such waste and you shall submit OSE to this office. A preliminary hazard analysis should be conducted safely. Audit internally by the facility operator every year & externally once in two years by a reputed expert agency should be carried out and same should be submitted to the HPSPCB.
4. You shall maintain record of disposal of hazardous waste in Form-3 and submit copy of manifest in Form-1 prescribed in Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 regularly as annual return in Form-4 by 30th June of every year to this office.
5. You are directed to meet the particulate matter emission standards and other standards as prescribed in COP/RCOP issued to your unit by this Board and shall also monitor the emission level of HCL, SO₂, CO, Organic Carbon, HF, NO_x, Total dioxins and furans, Cd+Ti+ their compounds, Hg and its compounds, Sb + Pb + Co + Cr + Cu + Mn + Ni + V + their compounds during pre co-processing and during co-processing of a mentioned hazardous waste in the cement kiln of your unit and shall ensure that emissions are not exceeding base line emissions i.e. during pre co-processing phase and shall submit the emission monitoring report to this office. The continuous measurement of particulate matter emission shall be carried out at co-processing and the emission data shall be submitted to CPCB and to HPSPCB. As per directions of CPCB, monitoring of dioxins and furans including other parameters will be done by the cement plant.
6. You shall also maintain ambient air quality standards as notified by the MoEF on 16th November 2009 and submit the monitoring report to this office.

- You shall also comply with the requirements in accordance to the Public Liability Insurance Act, 1991 amended during co-processing.
8. You shall also apply through Regional Officer, HPSPCB, Parwanoo to this office along with the data sheet report for further extension of the permission before expiry of the validity of this permission
 9. The cement plant shall take the hazardous waste only from the authorized generator
 10. A log book of waste co-processed shall be monitored including emission monitoring results during co-processing
 11. Cement plant shall install continuous emission monitoring system for monitoring the emission levels.


You shall not co-process any other type of waste without the permission of the State Board. If violation to directions of the State Board is observed, the State Board shall be constrained to take legal action against you at own risk and cost. The State Board reserves the right to review/ impose additional condition or revoke, change or any of the conditions.

(Vineet Kumar)
Member Secy
HPSPCB

Copy to following for information and necessary action:

1. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, Esat Arjun Nagar, New Delhi-110002 for information in reference to letter No. B-33014/H-24/2009/PCI-II/5045 dated July, 29, 2009 and letter B-33014/2012/PCI-II/2684 dated 04.10.2012.
2. The Sr. Environmental Engineer-I/ Sr. Environmental Engineer-II, HPSPCB, Shimla for information.
3. The Sr. Environmental Engineer, HPSPCB, Regional Office, Baddi for information and ensure the compliance provisions of Hazardous Waste Management Rules for transportation of waste to the cement plant for processing.
4. The Environmental Engineer, HPSPCB, Regional Office, Parwanoo, Distt. Solan (HP) for information and necessary action. He is directed to ensure compliance of the conditions as referred above and also to ensure compliance of air quality standards (both ambient as well as source) during co-processing.
5. M/s Abbott Health Care Pvt. Ltd. (Formerly Piramal Health Care Ltd.), Village Bhatoli Khurd, PO Baddi, Solan (HP), M/s Panacea Biotech Ltd., Village Malpur, PO Bhud, Baddi, Distt. Solan (HP), M/s Ranbaxy Laboratories Ltd., Faonta Sahib, Distt. Sirmour (HP), M/s Unichem Laboratories, Village Bhatoli Kalan, Baddi, Distt. Solan (HP), M/s M/s Shivalik Solid Waste Management Ltd., Village Majra, PO Dabhota, Tehsil Nalagarh, Distt. Solan (HP) and M/s TVS Motors Ltd., Bharatgarh Road, Village Bhatian, Nalagarh (Distt. Solan (HP) for information and necessary action.
6. Case File

(Vineet Kumar)
Member Secy
HPSPCB

	HP STATE POLLUTION CONTROL BOARD,
	Regional Office, Near HP PWD Rest House - Dholra, Bilaspur -174001
	Website:- www.hppcb.nic.in E-mail:- pcbobilaspur@gmail.com
	Phone No. 01978 - 223550

No. PCB/BLP (Court case) Vol-VII/14-1833 Dated-11.02.16

To
 The Member Secretary,
 HP State Pollution Control Board,
 Him Parivesh, Phase-III,
 New Shimla, Distt. Shimla - 171009

Subject: Regarding - Information w.r.t. issues raised by the Applicant on 21.01.2016 on co-processing of wastes in Cement Kiln-Hon'ble NGT Order.

Sir,

This is in reference to letter No. 21459-60, dated-10.02.2016 regarding the subject cited above. In this context, information as desired is as below:-

- 1) Authorization/permission for operating a facility for Co-processing of Hazardous Waste i.e. Vicks Process Waste of M/s Sarvotam Remedies Ltd., village-Katha, P.O.-Baddi, Tehsil - Nalagarh, Distt. Solan in the cement Kiln of ACC Ltd., Barmana, Distt. Bilaspur under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 as amended time to time vide letter No. PCB/HWMR (1809)/Sarvotam Remedies/14-26601-7, dated-24.02.2015 and is valid up-to 31.03.2018.
- 2) Analysis results w.r.t./ Ambient Air and stack is annexed as Annexure-I & Annexure-II respectively.

Submitted for kind perusal and further necessary action please.

Yours faithfully,


 Environmental Engineer,
 HP SPCB, Bilaspur

for

u/c

Enclosed: - A/a

Stack

Unit-I				
Sr. No.	Location	Date of Sampling	Result (mg/m ³)	Remarks
			Limit = 100 mg/m ³	
1.	Coal Mill-1	03.04.14	92.0	Within Limit
2.	Cement Mill-1 (Bag House)	19.08.14	13.0	Within Limit
3.	Reverse Air Bag House Stack	20.08.14	15.0	Within Limit
4.	Reverse Air Bag House Stack	16.09.14	39.0	Within Limit
5.	Coal Mill-1	16.09.14	37.0	Within Limit
6.	Cooler ESP	10.10.14	15.94	Within Limit
7.	RABH stack	13.11.14	9.0	Within Limit
8.	Bag House (Coal Mill-1)	03.12.14	10.0	Within Limit
9.	Cement Mill-1 (Bag House)	02.01.15	19.0	Within Limit
10.	Cement Mill-5 (Bag House)	02.01.15	11.0	Within Limit
11.	RABH Stack	03.03.15	16.0	Within Limit
12.	Bag House (Cement Mill-5)	20.03.15	30.0	Within Limit
13.	Cooler ESP Stack	01.07.15	36.0	Within Limit
14.	Cooler ESP Stack	18.08.15	128.0	Above the Limit

Unit-II				
Sr. No.	Location	Date of Sampling	Result (mg/m ³)	Remarks
			Limit = 50 mg/m ³	
1.	Coal Mill-1	15.5.14	26.00	Within Limit
2.	Coal Mill-2	15.5.14	37.00	Within Limit
3.	Cement Mill-1	15.5.14	55.00	Above the Limit
4.	Coal Mill-2	01.07.14	14.20	Within Limit
5.	Coal Mill: 3&4 Bag House	04.09.14	34.00	Within Limit
6.	VRM Kiln	02.05.15	18.0	Within Limit
7.	Cooler ESP Stack	01.07.15	32.00	Within Limit
8.	Cooler ESP Stack	19.08.15	79.00	Above the Limit
9.	Coal Mill-1	02.12.15	17.0	Within Limit

[Signature]
Environmental Engineer,
HP SPCB, Bilaspur

[Signature]

Annexure-I

M/s ACC Ltd., Barmana, ambient Ait Quality results for the year 2014-15 & 2015-16

Date(s)	Mines Office				On the roof-top of house of Mr. Vatan Singh				Gypsy Hut				On the roof top of Canteen				On the roof-top of house of club (residential colony)				
	RSPM ($\mu\text{g}/\text{m}^3$)	SOx ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)	Limit = 80.0 $\mu\text{g}/\text{m}^3$	RSPM ($\mu\text{g}/\text{m}^3$)	SOx ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)	Limit = 80.0 $\mu\text{g}/\text{m}^3$	RSPM ($\mu\text{g}/\text{m}^3$)	SOx ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)	Limit = 80.0 $\mu\text{g}/\text{m}^3$	RSPM ($\mu\text{g}/\text{m}^3$)	SOx ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)	Limit = 80.0 $\mu\text{g}/\text{m}^3$	RSPM ($\mu\text{g}/\text{m}^3$)	SOx ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)	Limit = 80.0 $\mu\text{g}/\text{m}^3$	
	Limit = 100 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 100 $\mu\text{g}/\text{m}^3$	Limit = 100 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 100 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 100 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 100 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	Limit = 80.0 $\mu\text{g}/\text{m}^3$	
13.05.14	68.0	---	---	---	68.0	---	---	14.0	---	---	---	---	---	---	---	---	52.0	---	---	---	
04.07.14	50.0	5.8	1.7	---	49.07	BDL	3.5	---	---	---	---	---	42.67	---	---	24.0	46.0	BDL	---	6.06	
5.8.14- 6.8.14	27.33	---	---	---	---	---	---	35.0	---	---	---	---	---	---	---	---	---	---	---	---	---
19.08.14- 20.08.14	34.33	BDL	1.6	---	33.33	BDL	1.6	60.67	BDL	1.03	---	---	34.67	BDL	BDL	---	55.67	BDL	---	BDL	
4.9.14	24.0	BDL	BDL	---	20.33	BDL	BDL	133.67	BDL	BDL	---	---	26.0	BDL	BDL	---	28.0	BDL	---	BDL	
15.9.14- 16.9.14	42.33	9.77	1.69	---	33.33	7.7	1.69	55.0	7.58	BDL	---	---	37.33	6.9	4.29	---	22.33	5.03	---	BDL	
9.10.14- 10.10.14	33.67	2.845	19.54	---	17.67	7.022	15.3	59.67	8.35	18.29	---	---	41.67	10.34	12.31	---	51.67	11.02	---	17.632	
12.11.14- 13.11.14	49.33	BDL	17.753	---	35.67	BDL	19.98	164.0	BDL	12.64	---	---	47.67	BDL	21.145	---	152.67	BDL	---	24.54	
02.12.14- 03.12.14	85.33	BDL	5.11	---	85.33	BDL	7.06	---	---	---	---	---	---	---	---	---	7.33	BDL	---	8.44	
23.02.15- 24.02.15	68.67	BDL	17.67	---	56.67	BDL	9.45	68.67	3.13	13.027	---	---	58.00	3.89	5.173	---	82.33	4.46	---	12.7	
09.03.15- 10.03.15	136.67	BDL	13.292	---	26.0	BDL	9.992	38.00	BDL	10.71	---	---	---	---	---	---	43.33	BDL	---	20.97	
03.04.15- 04.04.15	77.0	1.52	9.27	---	54.0	1.6	4.2	23.33	0.85	3.3	---	---	27.7	BDL	1.605	---	36.7	BDL	---	BDL	
01.05.15- 02.05.15	103.0	BDL	1.785	---	---	---	---	83.67	BDL	BDL	---	---	43.33	BDL	1.695	---	20.33	2.0867	---	BDL	
11.06.15	38.0	BDL	2.943	---	33.0	BDL	8.742	52.33	BDL	1.515	---	---	34.6	BDL	1.515	---	36.33	BDL	---	1.695	
01.07.15- 02.07.15	127.0	BDL	BDL	---	62.7	BDL	3.48	40.0	BDL	1.52	---	---	62.33	BDL	1.605	---	56.33	BDL	---	BDL	
18.08.15- 19.08.15	---	---	---	---	41.33	2.75	13.38	17.0	0.758	7.585	---	---	44.33	2.66	1.605	---	38.0	0.785	---	1.785	
03.09.15- 04.09.15	83.33	BDL	BDL	---	16.0	BDL	BDL	28.66	BDL	BDL	---	---	48.33	BDL	BDL	---	13.7	BDL	---	BDL	
01.10.15- 02.10.15	---	---	---	---	24.00	BDL	BDL	37.07	BDL	BDL	---	---	---	---	---	---	13.0	BDL	---	BDL	
1.12.15- 2.12.15	93.0	1.7	4.8	---	---	---	---	37.7	1.8	11.51	---	---	---	---	---	---	---	---	---	---	

(Signature)
 Environmental Engineer,
 HP SPCB, Bilaspur



HIMACHAL PRADESH
STATE POLLUTION CONTROL BOARD PARWANOO

Phone - 01792 234081

No PCB/EE/NGT(2162)/16-

2171

Dated:

10-2-16

To

✓ The Member Secretary,
HP State Pollution Control Board
"HIM Parivesh Bhawan" Phase-III,
New Shimla.

Sub:

Information w.r.t. issues raised by the applicant on 21.01.2016 on co-processing of waste in cement kiln - Hon'ble NGT Orders.

Sir,

This is in reference to your office letter no. 21459-60 dated 10.02.2016 on subject cited above. In this context, the desired information for jurisdictional area of this office is enclosed herewith in prescribed format for your kind information and further necessary action please.

SCE

SAT

Encl: As Above

by

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11/2



Yours faithfully,


Er. Brij Bhushan
Environmental Engineer
10/2/16

ANNEXURE - R6/A2.b. Appendix - 1

M/s Ambuja Cement Limited Sull Unit						
Stack Monitoring						
Sr. No.	Sampling Point Name	Date of collection	Parameters	Results	Limit	Remarks
1	Stack of Coal Mill (Sull Unit)	15.05.2015	Particulate Matters	86.5 mg/Nm ³	100 mg/Nm ³	Within limit
2	Stack of kiln (Sull Unit)	15.05.2015	Particulate Matters	21.7 mg/Nm ³	100 mg/Nm ³	Within limit
3	Stack of Cement Mill (Sull Unit)	15.05.2015	Particulate Matters	20.2 mg/Nm ³	100 mg/Nm ³	Within limit
4	Stack of clinker cooler (Sull Unit)	15.05.2015	Particulate Matters	9.9 mg/Nm ³	100 mg/Nm ³	Within limit
1	Stack of Coal Mill (Sull Unit)	20.01.2015	Particulate Matters	41.74 mg/Nm ³	100 mg/Nm ³	Within limit
2	Stack of kiln (Sull Unit)	20.01.2015	Particulate Matters Lead & other metal	12.84 mg/Nm ³ Not Detected	100 mg/Nm ³ 10 mg/Nm ³	Within limit
1	Stack of Coal Mill (Sull Unit)	24.09.2014	Particulate Matters	48.8 mg/Nm ³	100 mg/Nm ³	Within limit
2	Stack of kiln (Sull Unit)	24.09.2014	Particulate Matters	16.1 mg/Nm ³	100 mg/Nm ³	Within limit
3	Stack of Cement Mill (Sull Unit)	24.09.2014	Particulate Matters	11.7 mg/Nm ³	100 mg/Nm ³	Within limit
1	Stack of Coal Mill (Sull Unit)	06.05.2014	Particulate Matters	25.7 mg/Nm ³	100 mg/Nm ³	Within limit
2	Stack of kiln (Sull Unit)	06.05.2014	Particulate Matters	11.3 mg/Nm ³	100 mg/Nm ³	Within limit
3	Stack of Cement Mill (Sull Unit)	05.05.2014	Particulate Matters	10.7 mg/Nm ³	100 mg/Nm ³	Within limit

Co-processing of waste in Cement Plants

- (i) **ACC Ltd. Barmana:** In M/s ACC Ltd., located in Barmana in Himachal Pradesh, Co-processing of Hazardous waste in cement kiln is being practised since, 2008 as per detail given below;

SNo.	Type of Waste	Period	Quantity Co-processed (In MT)
1.	Non hazardous damaged/ expired/ non moving consumer products	May, 2008 to March, 2015	2130.92
2.	Vicks Vaporub Process Waste	April, 2010 to March, 2014	230.49
3.	ETP Sludge	April, 2012 to March, 2013	60.74

- (ii) **Ambuja Cement Ltd.:** In Ambuja Cement Ltd. located in Darlaghat in Himachal Pradesh, Co-processing of Hazardous waste in cement plant is being practised since, 2008 as per detail given below;

SNo.	Type of Waste	Period	Quantity Co-processed (In MT)
1.	ETP Sludge	July, 2008 to March, 2013	495.730
2.	Cream Waste	April, 2010 to March, 2014	614.765
3.	Gelatin Waste	April, 2010 to March, 2014	25.130
4.	Paint Sludge	April, 2010 to March, 2011	12.520
5.	Solid Waste Mix	April, 2011 to March, 2015	1189.000

Officers from the State Board attended the CPCB sponsored trainings on Hazardous Waste from 2008 onward

Sr. No.	Name of Training Program	Year	Name of Officer attended the Training
1	Hazardous Waste Characterisation Minimisation, Treatment and Disposal Facility	2008-09	Sh Sarwan Kumar, EE, HPSPCB Una
2	Solid Hazardous and BMW Management	2008-09	Sh Sanjeev Sharma, Scientific Officer, HPSPCB, Shimla
3	Online Hazardous Waste Inventory MoEF	2010-11	Dr. T.B. Singh, Sr. Scientific Officer, HPSPCB, Shimla
4	Environmental Monitoring and Control in Cement and Thermal Power Plant	2011-12	Sh. Bal Krishan Kaundal Assistant Env. Engineer, HPSPCB, HQ, Shimla Sh. Abhay Gupta, Jr. Environmental Engineer, HPSPCB, RO Shimla
5	Waste management: Policies, Issues, Challenges and way forward	2013-14	Sh. Sanjeev Sharma, Scientific Officer, HPSPCB, Head Office, Shimla.
6	Waste Management (Hazardous, Biomedical, Municipal, Solid, Plastic and E-waste)	2014-15	Sh. Hitender Sharma, Scientific Officer, HPSPCB, Head Office, Shimla

CENTRAL POLLUTION CONTROL BOARD
NOTIFICATION

New Delhi, the 1st May, 2006

No. Legal 42(3)/87.—In exercise of the powers conferred by clause (b) of Sub-section 1 of Section 12 and Section 13 read with clause 1 of the Notification No. 145(E), dated 21st February, 1991, issued under Section 23 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032 hereby recognizes, (a) the laboratories specified in column (2) of the Table below as 'Environmental Laboratories' to carry out the functions entrusted to the environmental laboratories under the said Act, and the rules made thereunder, and (b) specified persons in column (3) of the Table as the Government Analysts for the purposes of analysis of samples of air, water, soil or other substances sent for analysis, specified for respective groups of parameters mentioned in Column (4).

After Sr. No.113 of the Notification No. Legal/42(3)/87/, dated 15th December, 2005, and the entries relating thereto, the following Serial Nos. and entries shall be added namely:-

S. No.	Name of Laboratory	Name of the Govt. analysts	Recognized for parameter groups
1.	2.	3.	4.
114.	Central Laboratory H.P. State Environment Protection and Pollution Control Board , SCF 6, 7, 8 Sector IV, Parwano, District Solan 173220, Himachal Pradesh	1. Mrs. Daksha Gupta Senior Scientific Officer 2. Shri Anup Vaidya Scientific Officer 3. Shri Prakash Chand Sharma Scientific Officer	Physical, Chemical, Microbiological, and Air Pollution parameters for analysis of ambient air, source emission, noise and micro- meteorological parameters
115.	Analytical Laboratory, Ore Dressing Division, Indian Bureau of Mines, L-8, MIDC Industrial Area, Hingna Road, Nagpur 440016, Maharashtra	1. Shri S.R.Bhaisare Chief Chemist 2. Shri V.K.Jain Superintending Chemist 3. Dr. A.N.Verma Chemist	Physical, Chemical, Microbiological, and Air Pollution parameters for analysis of ambient air, source emission, Noise and micro- meteorological parameters

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116.	Environment Laboratory, National Productivity Council, 5-6 Institutional Area, Lodhi Road, New Delhi -110003	1. Dr. A.K.Saxena Group Head- Environment 2. Shri M. J. Parvez Director, Environment 3. Shri M.A.Patil Senior Deputy Director Environment	Physical, Chemical, and Air Pollution parameters for analysis of ambient air, source emission, Noise and micro-meteorological parameters
117.	Regional Laboratory Madhya Pradesh Pollution Control Board 17, Bharatpuri, Ujjain 456010, Madhya Pradesh	1. Dr. Shobha Danekar Chief Chemist 2. Dr. Suresh Kumar Shringi Scientist 3. Dr.(Mrs.) Lalita Sharma Scientist	Physical, Chemical, Microbiological, and Air Pollution parameters for analysis of ambient air, source emission, Noise and micro-meteorological parameters
118.	Centre for Environmental Studies, Anna University, Chennai 600025, Tamil Nadu	1. Dr. R.Nagendran Professor 2. Dr.K.Palanivelu Assistant Professor 3. Dr. N.Vasudeven Assistant Professor	Physical, Chemical, Microbiological, and Air Pollution parameters for analysis of ambient air, source emission, Noise and micro-meteorological parameters

The Environmental Laboratories and the Govt. Analysts so mentioned shall remain valid for a period of five years from the date of issue of Notification.

Dr. B. SENGUPTA, Member-Secy.

[ADVT III/IV/184/2006/Exty.]

Foot Note :

The principal notification was published in the Gazette of India vide SO NO. 728(E), dated 21.7.1987 and subsequently amended vide :-

(1) SO 838(E), dated 23.9.87 (2) SO 989(E) dated 17.11.87 (3) SO 489(E) dated 17.5.88 (4) SO 156 (E) dated 24.2.89 (5) SO 846(E) dated 24.10.89 (6) SO 375(E) dated 26.4.1990 (7) SO 803(E) dated 23.9.92 (8) SO 97(E) dated 5.12.1994 (9) SO 418(E) dated 31.3.1996 (10) SO 889 (E) dated 31.8.1996 (11) SO 452 (E) dated 31.5.97 (12) SO 631 (E) dated 31.5.1998 (13) SO (E) 336 dated 1.1.1999 (14) SO.44(E), dated 15.1.2001, (15) S.O.No.490(E), dated 1.6.2001, (16) S.O. No. 532(E), dated 1.1.2002, (17) S.O. No.1168(E), dated 1.6.2002, (18) S.O.No.888(E), 1.6.2003, (19) No.Legal/42(3)/87/, dated 1.6.2004, (20) Legal/42(3)/87, dated 1.3.2005, (21) Legal42(3)/87, dated 1.9.2005 and (22) Legal 42(3)/87, dated 15.12.2005.

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**BEFORE THE NATIONAL GREEN TRIBUNAL
AT NEW DELHI
APPLICATION NO. 178/2014**

In the matter of :

SHWETA NARAYAN

.....Applicant

VERSUS

UNION OF INDIA & ORS.

.....Respondents

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10.	Annexure-R-6/8 Results of ambient air quality and stack monitoring recently conducted by the Board of M/s Ambuja Cement Ltd. Darlaghat and M/s ACC Cement Ltd Barmana.	191-193
11.	Annexure R-6/9 Copy of online data of air quality monitoring equipments installed by cement units.	194-209
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Place: Shimla

Dated: 22-11-2014

Respondent No.6
H.P. SPCB, Shimla.

Through Counsel

- 1 -

**BEFORE THE NATIONAL GREEN TRIBUNAL
AT NEW DELHI
APPLICATION NO. 1 78/2014**

In the matter of :

Shweta Narayan
No. 92, 3rd Cross Street,
Thiruvalluvar Nagar,
Besant Nagar, Chennai - 600090,
Tamil Nadu.

.....Applicant

VERSUS

1. UNION OF INDIA
Through the Secretary,
Ministry of Environment & Forest Paryavaran Bhawan, CGO Complex,
Lodi Road, New Delhi.
2. CENTRAL POLLUTION CONTROL BOARD
Through the Chairman, Parivesh Bhawan,
CBD-cum-Office Complex East Arjun Nagar, Delhi-110032.
3. TAMIL NADU POLLUTION CONTROL BOARD
Through the Member Secretary,
Corporate Office No. 76, Mount Salai, Guindy,
Chennai-60032.
4. CHATTISGARH ENVIRONMENT CONSERVATION BOARD
Through the Member Secretary, 1-Tilak Nagar,
Shiv Mandir Chowk, Main Road, Avanti Vihar, Raipur,
Chattisgarh-492001.
5. GUJARAT POLLUTION CONTROL BOARD
Through the Member Secretary,
Paryavaran Bhawan, Sector-10A,
Gandhinagar, Gujarat-382010.
6. HIMACHAL PRADESH POLLUTION CONTROL BOARD
Through the Member Secretary
Him Parivesh Phase-III, New Shimla-171009,
Himachal Pradesh.
7. MADHYA PRADESH POLLUTION CONTROL BOARD
Through the Member Secretary
E-5, Area Colony, Paryavaran Parsar,
Bhopal-462016
Madhya Pradesh.
8. KARNATAKA STATE POLLUTION CONTROL BOARD
Through the Member Secretary,
Karnataka State Pollution Control Board,
"Parisara Bhavan" #49, 4th & 5th Floor, Church Street, Bangalore-560001.
9. MAHARASHTRA POLLUTION CONTROL BOARD
Through the Member Secretary,
Kalpataru Point, 3rd & 4th Floor,

Member Secretary,
K.P. State PCB,
Shimla

-2-

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Sion Matunga Scheme, Road No.8,
Opp. Cine Planet Cinema
Near Sion Circle, Sion (East), Mumbai-400022.

10. ANDHRA PRADESH POLLUTION CONTROL BOARD
Through the Member Secretary
Paryavarana Bhavan, A-3, I.E., Sanath Nagar,
Hyderabad-500018.

11. ODISHA STATE POLLUTION CONTROL BOARD,
Through the Member Secretary,
A/118, Nilakantha Nagar, Unit-VIII,
Bhubaneswar-751012.

12. JHARKHAND STATE POLLUTION CONTROL BOARD
Through the Member Secretary
H.E.C, Dhurwa, Ranchi-834004 (Jharkhand).

13. RAJHASTHAN POLLUTION CONTROL BOARD
Through Member Secretary,
4, Jha'ana Industrial Area,
Jhalana Doongri, Jaipur (Rajasthan)-302004.

.....Respondents

**Reply to the Original Application on behalf of
respondent No. 6 i.e. HP State Pollution Control
Board, Shimla.**

May please your lordships:-

Preliminary Submissions :

1. That the present case basically relates to issues of co-incineration process by the cement plants by using hazardous and municipal wastes in cement kilns and alleging emission of heavy metals during co-processing by cement kilns.
2. That under the provisions of Hazardous Waste (Management & Handling) Rules, 2008 framed under Environment Protection Act, 1986 the industries generating hazardous waste are required to dispose off their waste in a scientific manner in an authorised facility. In the State of HP, a Treatment Storage and Disposal Facility (TSDF) has been set up in the name of M/s Shiwalik Solid Waste Management Ltd. at village Mazara, Tehsil Nalagarh, District Solan for disposal of hazardous waste. This TSDF is operational since June, 2008 (copy of notification is annexed as **Annexure R-**

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6/1). The total storage capacity of the hazardous waste in TSDF site is 9 lakh tons for twenty years. The industries generating hazardous waste have entered into agreement with this TSDF facility for disposing off their hazardous waste.

3. That the Central Pollution Control Board in its 139th Board meeting has approved the policy for incineration of high calorific value hazardous waste in cement kilns during the year 2006 after conducting study which was conveyed to the HP State Pollution Control Board vide letter dated 12-12-2006. Copy annexed as **Annexure R-6/2.**

4. That the Central Pollution Control Board has granted permissions for test trial run for co-processing of hazardous waste in the cement kilns in the year 2009 in the State of HP in favour of two cement plants i.e M/s Ambuja Cement Ltd., Dalriaghat, Distt. Solan and M/s ACC Ltd., Gagaj Cement works at Barmana, Distt. Bilaspur HP. Copies of CPCB permissions for test trial run are annexed as **Annexure R-6/3** (collectively).

5. That the Central Pollution Control Board has conducted studies with association of Vimta Labs Ltd. during trial run of co-processing in cement kiln of M/s Ambuja Cement plant Darlaghat in the year 2011. The sampling of various parameters (including particulate matter, total metals and total Dioxin and furans etc.) of M/s Ambuja Cement Darlaghat was also conducted during pre co-processing and post co-processing periods. As per results, the concentration of particulate matter (mg/Nm³) varied from 29.6 to 31.6 during pre trial; 27.4 to 29.6 during co-processing of solid waste and during post-trial period, the values observed between 28.4-30.1 mg/Nm³. The maximum emission concentration of total

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metals other than mercury, cadmium and thallium were found to be 0.259 mg/Nm³ during pre-trial, 0.239 to 0.254 mg/Nm³ during co-processing of solid waste and 0.248 mg/Nm³ during post trial study. The concentration of total dioxin & furans were found to be 0.0132 ng/Nm³ during pre-trial, 0.0125 to 0.0128 ng/Nm³ during co-processing of solid waste and 0.0130 ng/Nm³ during post trial study. As such there is no significant change in parameters during pre trial and post trial of co-processing. Copy of CPCB study is annexed as **Annexure R-6/4**.

6. The Central Pollution Control Board in association with Vimta Labs Ltd. has also conducted trial run study of co-processing in cement kiln of M/s ACC Ltd Barmana in the year 2012. The sampling of various parameters (including particulate matter, total metals, mercury and total Dioxin and furans etc.) was also conducted during pre co-processing and post co-processing periods. The particulate emissions were found always less than 50 mg/Nm³, maximum observed was 42.6 mg/Nm³. The total heavy metals and mercury emissions values were in the range of 0.250 to 0.265 mg/Nm³ and 0.017 to 0.018 mg/Nm³ respectively during co-processing of P&G ETP Sludge. Dioxins & Furans were found 0.0145 ng/Nm³ during pre trial period, 0.0115 to 0.0136 ng/Nm³ during co-processing with P&G ETP Sludge and 0.0140 ng/Nm³ during post trial period. Copy of CPCB study is annexed as **Annexure R-6/5**.

7. That based on performance of trial run, the regular permissions were granted by the Central Pollution Control Board for few categories of hazardous waste generated by some of the industries located in the State of HP with the condition that authorization shall be obtained from the State Pollution Control Board under Hazardous Waste Rules, 2008 for storage, handling, transportation

Member Secretary
 HP State PCB
 Shikula


and co-processing of hazardous waste. Copies of permissions granted by the CPCB is annexed as **Annexure R-6/6**(collectively).

8. That subsequent to the permissions granted by CPCB, the State Board has also granted authorisation to two cement industries in HP i.e. M/s Ambuja Cement Ltd., Dalriaghat and M/s ACC Ltd., Gagai Cement works at Barmana for co-processing of hazardous waste (ETP sludge, cream waste, gelatin waste, vicks vaporub process waste, solid waste mix etc.) in their cement kilns generated by the industries located in State of HP. Copies of authorisations issued by the State Board are annexed as **Annexure R-6/7**.

9. That the practice of co-incineration in State of HP was started after permissions granted by the CPCB by conducting a prior study and test trial run. The regular permissions to the two cement plants were granted by the CPCB based on performance of test trial run. Hence, the allegations of the applicant are based on assumptions, hence denied. Therefore, the present application deserves to be dismissed.

Reply on merits:

1. Contents of para 1 relate to process of co-incineration being carried out by the cement plants by using hazardous and municipal wastes. It is submitted that the process of co-incineration was started in State of HP after the test trial study and permissions by the CPCB and thereafter the State Board has granted authorisation to the two cement plants in the State of HP for co-incineration w.r.t. few categories of wastes generated from particular industries.


Member Secy
S.P. State
Shimla

No.PCB/132/WMC/2015-16

Date:

To
The Additional Director / Sc. E
Central Pollution Control Board
'Parivesh Bhawan', East Arjun Nagar
Delhi – 110032

Sub: Submission of information pertaining to Shwetha Narayan V/S Union of India and others
on co-processing of waste in cement kiln Reg.

Ref: Your letter No B-33014/7/2016/PCI-II, Dated:08.02.2016.

As per your letter cited under reference, please find here with enclosed information prescribed format.

This is for your information.

Yours faithfully

Member Secretary.

Shweta Narayan V.Union of India & ors.

[O.A. 178 of 2014]

State: Karnataka

<u>State Pollution Control Boards</u>	<u>Grant and Renewal of registration / authorization</u> Rule 5 and 8 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	<u>Emission Monitoring & Compliance</u> Rule 6, 18, 24 & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	<u>Inventorisation of waste</u> Rule 5(6), 8(7) & 22(3) & Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	<u>Training & awareness</u> Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	<u>Valid recognition of Environmenta I Laboratories</u> Section 12 of the EPA, 1986	<u>Identification of site for TSDF</u> Schedule VII r/w Rule 23 of the Hazardous Waste Rules, 2008	<u>Compliance with the EIA Notification of 2006</u>
KARNATA KA-8	CPCB has granted regular permission for co-processing of incinerable Hazardous waste to 7 cement plant in Karnataka and KSPCB has issued the authorization for co-processing. List enclosed as Annexure- R-8/A1 List of industry supplying the incinerable hazardous waste to cement units	Emission monitoring is being carried out by industry by engaging NABL and Environmental laboratories.	The Board has covered 3,708 hazardous waste generating industries in Karnataka and issued authorization. The estimated quantity of hazardous waste generated has been assessed based on the authorizations issued (considering optimal operating conditions) and classified as	The Board is conducting the awareness programme regularly.	There are three recognized laboratories in Karnataka. List is enclosed as Annexure- R8/A3	1. M/s. Ramky Environ Engineers Ltd., are operating the TSDF facility since 2008 on BOOT basis, in Karnataka. The location of the plant is Dabaspet near Bangalore. The Land belongs to the Government and it is a Government project & deed is enter on 01-	The Co-processing facility does not need Environmental Clearance as the Rule 11 of the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 empower to grant permission for co-processing by CPCB & SPCB'S. Rule 11 is quoted as under "The utilization of Hazardous wastes as supplementary

	<p>is enclosed as Annexure-R8/A2</p>		<p>under. Recyclable/repro cessable waste : 1,19,802 MTPA. Incinerable waste : 65,725 MTPA. Landfillable waste : 65,362 MTPA</p>			<p>12-2006 between Government of Karnataka, & M/s. Ramky Infrastructure Ltd, Hyderabad. The capacity of the facility is 8.00 Lakhs MT, expected to operate for 20 years. The land filling site of 25 acres is divided into 5 cells of area 5 acres each cell . The filling operation is completed in cell-1, the temporary capping is made. The filling operation is under progress in cell-2.</p>	<p>resource or for energy recovery, or after processing shall be carried out by the units only after obtaining approval from the Central Pollution Control Board".</p>
						<p>HAZARDOUS WASTE disposed AT TSDF from the date of commissioning</p>	

up to 31.3.2015	is	Total	:	1,43,910 MT.	2. Mother Earth	Environ Tech	Pvt Ltd., Plot no	217, KIADB	Industrial area,	Harohalli,	Kanakapura	Taluk,	Ramanagara	Dist, Karnataka	has obtained	consent .. for	establishment	from KPSCB on	04.11.2015 for	setting	hazardous	Waste landfill	facility of	capacity 95,000	MT/ten year and	it is consisting	of 2 cells of	capacity 50,000	MT and 45,000	MT.	

Annexure - R8/A1

List of the Cement Units

1. Vicat Sagar Cement Pvt Ltd, Chatrasala village, Kerchkhed Post, Chincholi Taluq, Kalburgi.
2. M/s. Rajashree Cement Ltd. (Formerly Ultratech Cement), Adityanagar, Malkhed Road - 585292, Gulbarga District.
3. M/s. Vasavadatta Cements, sedum Taluk, Kalburgi District.
4. M/s. ACC Ltd., Wadi-1 (Old Plant) & Wadi-2 (New Plant), Wadi, Chittapur Taluk, Kalburgi District.
5. M/s. Heidelberg Cement India Ltd. (Formerly Mysore Cement Ltd.), Ammasandra, Tumkur-572211.
6. M/s. Jaypee Cement Corporation Ltd., Shahabad, Gulbarga District-585229.
7. M/s. Chettinad Cement Corporation Ltd., Kallur Works, Sangem K, Garagappalli Post, Chandapur (So), Chinchali (TK), Gulbarga (DT), Karnakata - 585305.

Annexure - R8/A2

Details of Units sending the incinerable Hazardous waste to cement plant for Co-processing.

Sl.No	Incinerators	Status
1.	GE India Technology center Pvt ltd No 122, EPIP Phase 2, Whitefield Road, Bangalore -560 066.	Captive
2.	Jubilant Life Sciences (Organosys) Ltd., # 15, 56-58, KIADB Industrial Area, Nanjangud, Mysore - 571 301.	Captive
3.	Biocon Limited, # 2, 3, 4 & 5, Bommasandra Jigani Link Road, Industrial Area, 4 th Phase, Anekal Taluk, Bangalore District.	Captive
4.	JSW Steel Ltd., Toranagallu Village, Sandur Taluk, Bellary Dist.	Captive
5.	SABIC Research & Technology Pvt. Ltd., Survey # 81- 85, Chikkadurnnasandra Village, Anekal Taluk, South- East Bangalore - 562125	Captive
6.	Cipla Ltd., Virgonagar post, Old Madras Road, Hoskote Taluk, Bangalore - 560 049.	Captive
7.	Grindwell Norton Ltd, Devanahalli Road, Off Old Madras Road, Bangalore - 560 049.	Captive
8.	Hindustan Unilever Industries Pvt. Ltd., #64, Whitefield Main Road, Bangalore - 560066	Captive
9.	GE India Industrial Pvt. Ltd., Plot No. 42/1, 45/14, 123/1, Electronic City, Phase-2, Bangalore - 560100	Captive
10.	Kumar Organics Products Pvt. Ltd., Plot No. 62, Road No:3 & 5, Jigani Industrial Area, Anekal Taluk, Bangalore - 560105	Captive
11.	SKF India Limited, Plot No. 2, Bommasandra Industrial Area, Anekal Taluk, Bangalore Urban District - 560699	Captive
12.	Agila Specialities Pvt. Ltd., (Formerly Strides Arcolab	Captive

	Pvt. Ltd.,) #626/19/154/11, 154/6, Doresanipalya, Bilekehalli, Bannerghatta Road, Bangalore - 562076	
13.	Nexteer (Formerly Delphi/ Rhodes) Automotive India Pvt. Ltd., #98A, 2 nd Phase, KIADB Industrial Area, Jigani, Anekal Taluk, Bangalore District - 562105	Captive
14.	Omkrown PharmaChem Pvt. Ltd., K.R. Street, Bharat Nagar, Shahpur, Belgaum - 590 003.	Captive
15.	BASF India Ltd., (amalgamation of BASF Coatings (India) Pvt. Ltd., and BASF Construction Chemicals (India) Pvt. Ltd.), Suratkal-Bajpe Road, Bala Village via katipalla, Mangalore - 575 030.	Captive
16.	AT & S india Pvt. Ltd., (Formerly INDAL Electronics Ltd.) Plot No. 12A, KIADB Industrial Area, Nanjangud, Mysore district.-571301.	Captive
17.	Toyota Kirloskar Motors Pvt. Ltd., Plot No. 1, Bidadi indl area, Ramnagar taluk, Bangalore - 562 109.	Captive
18.	Sequent Scientific Ltd., No. 120A & 120B, 36, Baikampady Industrial Area, Mangalore - 575 011.	Captive
19.	Khayati Steel Industries Pvt. Ltd., No. 12-P-III, Thandya Industrial Area, Thandavpura, Nanjangudu Taluk, Mysore District - 571301	Captive
20.	Govind Solvent Pvt. Ltd., No. 19, (P)-22, Anchepalya Industrial Area, Kunigal Taluk, Tumkur.	Captive
21.	3 M India Ltd., Plot-No. 48-51, Electronic City, Hosur Road, Bangalore - 560 100.	Captive
22.	Tetragon Chemie Pvt. Ltd., No. C7/22, KSIDC Industrial Estate, Yelahanka, Bangalore - 560 064.	Captive
23.	Autoliv India Pvt. Ltd., Plot-No. 44, KIADB Industrial Area, Kadakola, Jayapura Hobli, Mysore - 571311	Captive
24.	Astra Zeneca Pharma India (P) Limited, 12 th Mile stone, Bellary Road, Kattigenahalli, Venkatala, Yelahanka, Bangalore - 560063.	Captive

Under EP Act 1986 Recognized Laboratories in Karnataka

Sl No	Name of the Lab & Address
1	M/s Cosmo Conscious Research Laboratory "SURVEY HOUSE" # 121, 2nd Cross, Nehru Colony, Bellary - 583103 (Karnataka)
2	Environmental Health and Safety Research and Development Centre, No. 13/2, 1st main Road, Near Fire Station, Industrial Town, Rajajinagar, Bangalore-560 010
3	Environmental Laboratory, (Unit of Mineral Engineering Services), No.948, 2nd Cross, Kammanahalli Main Road, Bangalore-560 084



राजस्थान राज्य प्रदूषण नियंत्रण मण्डल
RAJASTHAN STATE POLLUTION CONTROL BOARD
4, Institutional Area, Jhalana Doongri, Jaipur
Phone: 5101871, 5101872 PBX 5159600, 5159699, Fax: 5159694, 5159695,
5159696, 5159697

RPCB/HAZ/JAIPUR/6001-83/1487

Date: 15/02/2016

Sh. P.K. Gupta
Addl. Director / Se.E
Central Pollution Control Board
Parivesh Bhawan, East Arjun Nagar
New Delhi -110032

Sub : Information w.r.t. issues raised by the applicant on
21.6.2016 on co-processing of waste in cement kilns -
Hon'ble NGT Order
Ref : Your letter no. B-33014/7/2016/PCI-II dated 8.2.2016

Sir,

With reference to above, please find enclosed herewith the
information desired vide above referred letter for further necessary
action.

Encl. As above

Yours sincerely

(Rakesh Gupta)
Environment Engineer (Haz.)
7073897774

State Pollution Control Board	Grant and renewal of registration/authorization Rules 5 and 8 & Schedule VII r/w Rules 23 of the Hazardous Waste Rules 2008	Emission Monitoring & Compliance Rule 6, 18, 24 & Schedule VII r/w Rules 23 of the Hazardous Waste Rules 2008	Inventorisation of waste Rules 5(6), 8(7) & 23(3) & Schedule VIII r/w 23 of the Hazardous Waste Rules 2008	Training & awareness Schedule VII r/w Rules 23 of the Hazardous Waste Rules 2008	Valid recognition of environmental laboratories Section 42 of the EPA Act, 1986	Identification of site for TSDF Schedule VII r/w Rules 23 of the Hazardous Waste Rules 2008	Compliance of the EIA Notification of 2006
Rajasthan State Pollution Control Board	Granted 44 No. of authorization to 7 Cement Plants (List enclosed Annexure-1) for processing of waste.	PM, SO _x , NO _x are being regularly monitored by the State Board. Industries are also submitting monitoring reports from MoEF recognized laboratories for all the parameters	As per data compile by State Board during year 2013-14 has hazardous waste for co-processing/ co-incineration is approx 34828 MTA based on the data submitted by the industry	Workshop/Training organized with the help of industries association.	State Board do not recognized laboratory, however three laboratories are recognized in Rajasthan by MoEF. 1. Team Test House, Jaipur, 2. Consulting Engineers Group Ltd., Jaipur 3. Wolkem Laboratory, Udaipur	1. Rajasthan Waste Management Project, Village Gudli, Teh Mayli Distt. Udaipur 2. Balotra Waste Management Project, Plot No. 274/13 & 274/14 Kher Pachpadra Barmer	All the cement plants have obtained environmental clearance for cement production

Subid
15/11/2016
(Barmer Camp)
EE (HA2)

Annexure - R13/A1

S. No.	Name of the Industry	Name of Hazardous Waste	Category of Hazardous waste	Hazardous waste obtained from	Quantity	Date of Authorization	Validity of Authorization
1	Shree Cement Ltd. Andheri Deori, Teh.- Masuda, Ajmer	1. Organic Residue from Process 2. Spent clay containing oil	4.4 4.5	Petroleum refining/Re-refining of used oil/recycling of waste oil	300 MT/Month 545 MT/Month	25-10-17	07-10-17
2	Shree Cement Ltd. Andheri Deori, Teh.- Masuda, Ajmer	Non ferrous sludge form EIP sludge & scrubbers	7.4	HZL Dariba	400 MT	30-04-13	30-03-18
3	Shree Cement Ltd. Andheri Deori, Teh.- Masuda, Ajmer	1. Grinding waste 2. Oil Soak Cotton	5.2 5.2	Gillette India	200 MT/Month 200 MT/Month	06-08-15	31-07-20
4	Shree Cement Ltd. Andheri Deori, Teh.- Masuda, Ajmer	Process wastes, residues and sludgs	21.1	Automobile industry	100 TPD	04-04-13	30-09-17
5	Shree Cement Ltd. Andheri Deori, Teh.- Masuda, Ajmer	Chemical sludge from waste water treatment plant	34.3	Bhilwara Textile units	1500 MT/Month	30-08-11	31-07-16
6	Shree Cement Ltd. Andheri Deori, Teh.- Masuda, Ajmer	Waste /residues containing oil	5.2	NEI, Jaipur	1300 MTA	24-12-13	30-09-18
7	Shree Cement Ltd. Andheri Deori, Teh.- Masuda, Ajmer	1. Waste Mix Liquid 2. Waste Mix Solid		Recycling Solutions Pvt. Ltd., Panoli Gujrat Enviro. Protection and Infrastructure Ltd., Faridabad	1000 MTM 1000 MTM	08-09-15	31-08-20
8	Shree Cement Ltd. Andheri Deori, Teh.- Masuda, Ajmer	Chemical sludge from waste water treatment plant	34.3	CETP, Jodhpur	12 TPD	26-06-12	31-05-17

9	Shree Cement Ltd., Ras Teh.- Jaitaran, Pali	1. Phosphate Sludge 2. Paint Sludge (Process waste residue and sludges) 3. Tyre Chips 4. Chemical sludge from waste water treatment plant	12.5 21.1 34.3	Maruti Suzuki, Gurgaon Automobile Sector	50 TPD 150 TPD 500 TPD 50 TPD	24-06-15	30-05-18
10	Shree Cement Ltd., Ras Teh.- Jaitaran, Pali	1. Grinding waste 2. Oil Soak Cotton	5.2 5.2	Gillette India	200 MT/Month 200 MT/Month	11-08-15	31-07-20
11	Shree Cement Ltd., Ras Teh.- Jaitaran, Pali	1. Incineration ash 2. Oily rags	36.2 5.2		500 TPM 100 TPM	03-07-15	30-06-20
12	Shree Cement Ltd., Ras Teh.- Jaitaran, Pali	1. Waste Mix Liquid 2. Waste Mix Solid	-	Recycling Solutions Pvt. Ltd., Panoli Gujrat Enviro Protection and Infrastructure Ltd., Fandabad	1000 MTM 1000 MTM	08-09-15	31-08-20

13	Shree Cement Ltd., Ras Teh- Jaitaran, Pall	Chemical gypsum	D-2	Novel Spent Acid Management Ahemdabad	8200 MTM	22-11-14	31-01-19
14	Shree Cement Ltd., Ras Teh- Jaitaran, Pall	Waste Mix Solid		GEPL, Haryana	3000 TPA	09-11-15	30-09-20
15	Ultra Tech Cement Ltd., Aditya Puram, Chittorgarh	Process wastes, residues and sludges, (Plastic waste)	21.1	Paper industries of Vapi Gujrat	45000 TPA	01-10-13	30-06-18
16	Ultra Tech Cement Ltd., Aditya Puram, Chittorgarh	Process wastes, residues	29.1	Chemnova India Ltd. Bharuch Gujrat	500 MTA	22-05-13	30-10-17
17	Ultra Tech Cement Ltd., Aditya Puram, Chittorgarh	Distillation residues	20.3		500		
18	Ultra Tech Cement Ltd., Sawa Shambhupura, Chittorgarh	1. ETP Bio Solid form Soft drink industry 2. Spent carbon from Soft drink industry 3. WTP Sludge from Soft drink industry 4. Spent solvent 5. Paint sludge 6. Spent catalyst / spent carbon 7. spent organic solvents 8. Refinery sludge 9. Spent catalyst 10. grinding dust 11. Oily rags		Soft drink industry	2000 MTA 2000 MTA 2000 MTA 10000 MTA 10000 MTA 6000 MTA 10000 MTA 10000 MTA 5000 MTA 3000 MTA 1100 MTA	20-02-15	30-09-19
19	Ultra Tech Cement Ltd., Sawa Shambhupura, Chittorgarh	1. Process residues and wastes 2. Chemical sludge from waste water treatment plant	28.1 34.3	Pharmaceutical Industry Automobile Industry Pharmaceutical Industry Pharmaceutical Industry Oil refinery Oil refinery Automobile industry Automobile Industry	500 MTA 500 MTA		
20	Ultra Tech Cement Ltd., Aditya Puram, Chittorgarh	1. Waste /residues (Not made with vegetable and animal material) 2. waste residues containing residues	23.1 5.2	Maruti Udyog Manesar, Haryana Maruti Udyog Manesar, Haryana	200 MTA 200 MTA	13-05-13	28-02-18
21	Ultra Tech Cement Ltd., Village Mohanpura Tehsil-Kotputali, Jaipur	1. ETP Bio solid 2. Sludge generated from WTP 3. Spent carbon	34.3 34.3 35.3	Soft drink industry Soft drink industry Soft drink industry	100 TPD 100 TPD 100 TPD	17-09-14	30-04-19

22	Ultra Tech Cement Ltd., Village Mohanpura Tehsil-Kotputali, Jaipur	1. Phosphate Sludge 2. Process waste residue and sludges 3. Spent organic solvents 4. Chemical sludge from waste water treatment plant	12.5 21.1 28.5 34.3	Automobile Industry Automobile Industry Pharmaceutical Industry Automobile Industry	100 TPD 100 TPD 100 TPD 100 TPD	12-09-13	30-11-16
23	Lafarge India Pvt. Ltd. Chittorgarh Plant	Waste Mix Solid	-	GFPIL, Hariyana	24000 TPA	22-12-15	17-12-20
24	Lafarge India Pvt. Ltd. Chittorgarh Plant	Waste Mix Solid and Liquid	-	Recycling Solutions Pvt. Ltd.	80 TPD	14-10-14	30-08-19
25	ACC Cement Ltd., Lakheri, Bundi	1. Chemical ETP sludge from automobile industry 2. ETP Sludge from CEEP Pali 3. Grinding Muck from machine manufacturing industries 4. Phosphate sludge from automobile industry	34.3 34.3 5.2 21.1	Automobile Industry CETP Pali Machine Manufacturing Industries Automobile Industry	6.50 TPD 15 TPD 10 TPD 2.5 TPD	23-02-12	31-01-17
26	ACC Cement Ltd., Lakheri, Bundi	1. ETP Bio solid from Soft drink industry 2. Grinding dust from rolling bearing and sealing industry 3. oily rags from automobile industry 4. Spent carbon from soft drink industry 5. WTP Sludge from soft drink industry	34.3 5.2 5.2 35.3 34.3	Soft drink industry Rolling bearing and sealing industry Automobile industry Soft drink industry Soft drink industry	10 TPD 35 TPD 3 TPD 10 TPD 130 TPD	23-02-12	31-01-17
27	ACC Cement Ltd., Lakheri, Bundi	1. Terry Residues 2. Process wastes, residues and sludges 3. Oily sludge and emulsion	1.2 21.1 4.1	5000 TPA 10000 TPA 5000 TPA	5000 TPA 10000 TPA 5000 TPA	21-07-10	29-04-15
28	ACC Cement Ltd., Lakheri, Bundi	1. Chemical sludge from waste water treatment plant 2. Grinding waste containing oil 3. Oil soaked cotton	34.3 5.2 5.2	0.04 TPD 4.98 TPD 4.98 TPD	0.04 TPD 4.98 TPD 4.98 TPD	18-04-13	30-10-17

29	ACC Cement Ltd., Lakheri, Bundi	1. Plating Metal sludge 2. Process waste sludge/residues containing acid or other toxic metals or organic complexes	17.8 26.1		58 TPA 108 TPA	22-01-13	30-11-17
30	ACC Cement Ltd., Lakheri, Bundi	Drill cutting containing oil	2.1	Cairn India Ltd.	3600 TPA	28-04-14	28-02-19
31	J.K. Cement works, Nimbahera, Chittorgarh	ETP sludge of textile unit generated from waste water treatment plant	34.3	Textile units of Bhilwara	1200 TPA	17-11-15	31-10-20
32	J.K. Cement works, Mangrol, Chittorgarh	Lead Zinc Slag	Other waste	HZL Chanderia	30000 TPA	19-11-15	18-11-20
33	J.K. Cement works, Nimbahera, Chittorgarh	Lead Zinc Slag	Other waste	HZL Chanderia	30000 TPA	23-11-15	31-10-20
34	J.K. Cement works, Mangrol, Chittorgarh	ETP sludge of textile unit generated from waste water treatment plant	34.3	Textile units of Bhilwara	1200 TPA	18-11-15	31-10-20
35	J.K. Cement works, Nimbahera, Chittorgarh	1. Waste Mix Liquid 2. Waste Mix Liquid and Solid 3. Waste Mix Solid		Recycling Solutions Pvt. Ltd., Panoli Gujrat Enviro Protection and Infrastructure Ltd., Faridabad	800 MTM 700 MTM 1500 MTM	02-02-16	31-12-21
36	J.K. Cement works, Mangrol, Chittorgarh	1. Waste Mix Liquid 2. Waste Mix Liquid and Solid 3. Waste Mix Solid		Recycling Solutions Pvt. Ltd., Panoli Gujrat Enviro Protection and Infrastructure Ltd., Faridabad	800 MTM 700 MTM 1500 MTM	02-02-16	31-12-21
37	Ambuja Cement Ltd., Vill. Rabriyawas, Jaitaran Pali	Chemical sludge from waste water treatment plant	34.3		883 MTA	10-04-14	31-12-18
38	Ambuja Cement Ltd., Vill. Rabriyawas, Jaitaran Pali	Chemical sludge from waste water treatment plant	34.3	Asian Paints Ltd.	100 MTA	12-11-14	30-04-19
39	Ambuja Cement Ltd., Vill. Rabriyawas, Jaitaran Pali	Waste/residues containing residues (Grinding waste)	5.2	Bosch Ltd., Jaipur	80 MTA	28-08-15	31-07-20
40	J.K. Laxmi Cement Ltd., Jaykappuram, Teh. Pindwara, Sirahi	Process waste, residues and sludges (Plastic waste)	21.1	Plastic industries of paper and board industries	100 TPD	14-09-15	31-08-20

41	Ultra Tech Cement Ltd., Sawa Shambhupura, Chittorgarh	1. Chemical sludge from waste water treatment plant 2. Non ferrous sludge from ETP and Scrubbers 3. Tyre chips 4. Plastic waste	34.3	Textile units HZL, Chanderni Automobile sector	20000 TPA 10000 TPA 3000 TPA 250 TPA	05-11-15	31-03-20
42	Ambuja Cement Ltd., Vill. Rabriyawas, Jaitaran Pali	1. Process wastes, residues and sludges, (Paint Sludge) 2. Tyre chips	21.1 Other waste	Automobile sector	5000 MTA	05-11-15	31-07-20
43	Ultra Tech Cement Ltd., Sawa Shambhupura, Chittorgarh	1. Phosphate sludge 2. Chemical sludge from waste water treatment plant	12.5 34.3	Automobile industry, Automobile industry	5000 MTA 5000 MTA	26-11-15	30-09-20
44	Shree Cement Ltd. Ras Teh.- Jaitaran, Pali	Waste/residues containing oil	5.2	NEI, Jaipur	300 MTM	10-12-15	30-11-20