BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

O.A. No. 1332/2024

In the matter of:

Kashmir Singh

….Applicant

Versus

State of H.P. and others

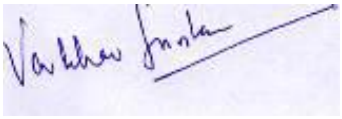
….. Respondents

Index

	photos/videos to the committee and response/compliance submitted by the unit.	
7.	**Annexure-V.** The Report dated 21.01.2026 of the Technical Expert member.	47-48.

HPSPCB
(Nodal Authority)

Through Counsel



Vaibhav Srivastva
(Advocate)

Dated: 06.02.2026

Report by two members of the Joint Committee constituted by Hon'ble NGT in O.A. No. 1332 of 2024 titled Kashmir Singh v/s State of H.P; in compliance to order dated 17.12.2025 of Hon'ble NGT.

Background:

The present Original Application has been registered based on a letter petition dated 23.09.2024 of Sh. Kashmir Singh, son of Sh. Sant Ram, village Khater, Post Office Barmana, Tehsil Sadar, District Bilaspur, H.P. regarding air pollution being caused in operation of M/s ACC Ltd. Cement Factory at Post Office Barmana, District Bilaspur, H.P.

The instant report is being filed by two members of the Joint Committee in compliance to order dated 17.12.2025 of the Hon'ble NGT wherein, following directions were passed:-

"….1. Additional response dated 16.12.2025 has been filed by respondent no. 5 inter alia mentioning that the Joint Committee could not submit its report as there was delay in submission of technical expert report dated 13.12.2025 signed copy of which was received on 16.12.2025 and that email dated 16.12.2025 was received from another member of the Joint Committee namely Dr. Narender Sharma, Scientist 'F', CPCB.

2. The report signed by two members of the Joint Committee may be filed within four weeks.

3. Report/comments by Dr. Narender Sharma, Scientist 'F', CPCB, another member of the Joint Committee may also be filed within four weeks.

4. List on 12.02.2026 for further hearing…."

Earlier, in this matter, reports dated 24.01.2025 and 15.04.2025 of the Joint Committee were filed by CPCB. The Hon'ble NGT after considering the reports of the Joint Committee vide order dated 17.04.2025 had observed and directed as follows:-

"… 6. The Respondent No. 6- unit was found to be compliant whereas, air quality parameters outside the residence of the applicant were found to be violative of the environmental norms. The matter of air pollution particularly PM 2.5 exceeding the environmental norms is a matter of grave concern due to its adverse health impacts.

…7… We are not focusing on the causes and also the adverse impact of such air pollution for taking requisite remedial measures. On the other hand, we are increasingly becoming accustomed to ever rising levels of air pollution. The causes of air pollution have to be ascertained and remedial measures have to be taken not for well-being of the present generations but also for ensuring the well-being of future generations.

".8. In the facts and circumstances of the present case we direct the CPCB and the HPPCB to constitute a Joint Committee comprising of representatives to be nominated by the Chairman of CPCB and the Chairman of HPPCB and one or more Experts to be co-opted by them to ascertain the causes of air pollution in the area and suggest remedial measures. Report by the Joint Committee may be filed within 2 months. The HPPCB will be the nodal authority for the purpose of coordination and compliance and will bear the expenses of the Joint Committee and its Members as per rules…"

Thereafter pursuant to the above-cited directions of Hon'ble NGT, a Joint Committee comprising representatives of the Central Pollution Control Board (CPCB), Himachal Pradesh State Pollution Control Board (HPSPCB) and an independent technical expert from IIT Ropar was constituted to ascertain the cause/sources of air pollution in the vicinity of M/s ACC Ltd., Barmana, District Bilaspur, Himachal Pradesh. The Joint Committee comprised of following members:-

i. Dr. Narender Sharma, Scientist 'F', CPCB, Regional Directorate,Chandigarh (Nominated by Chairman CPCB).

ii. Sh. Lalit Thakur, Environmental Engineer HPSPCB Shimla (Nominated by Chairman HPPCB).

iii. Dr. Indramani Dhada, Assistant Professor, Department of Civil Engineering, IIT Ropar, Punjab (Expert Member co-opted by the Joint Committee).

The aforesaid Joint Committee filed its status report dated 17.07.2025 before the Hon'ble NGT, however, the Joint Committee could not submit its final report. Thereupon, the Hon'ble NGT vide order dated 17.12.2025 observed and directed as follows:-

"….1. Additional response dated 16.12.2025 has been filed by respondent no. 5 inter alia mentioning that the Joint Committee could not submit its report as there was delay in submission of technical expert report dated 13.12.2025 signed copy of which

was received on 16.12.2025 and that email dated 16.12.2025 was received from another member of the Joint Committee namely Dr. Narender Sharma, Scientist 'F', CPCB.

2. The report signed by two members of the Joint Committee may be filed within four weeks.

3. Report/comments by Dr. Narender Sharma, Scientist 'F', CPCB, another member of the Joint Committee may also be filed within four weeks.

4. List on 12.02.2026 for further hearing…."

Report by two members of the Joint Committee:-

I. Pollution Mitigation measures taken by M/s ACC Cement Plant Gagal Cement Works, Village Barmana, Tehsil Sadar, District Bilaspur, H.P:

M/s Associated Cement Company (ACC) Ltd., Gagal Cement Works, village Barmana, tehsil Sadar, Distt. Bilaspur has established two cement manufacturing units i.e. M/s Gagal Cement Works (Unit-I) with a capacity of 2 Million Ton Per Annum (MTPA) & Gagal Cement Works (Unit-II) with a Capacity 2.64 MTPA in total area of 29.06 hectares. The Consent to Operate of Unit-I and Unit-II is valid till 31.03.2030.

Both Unit-I and Unit-II of the cement plant have provided necessary Air Pollution Control Devices (APCD's) attached to probable source of emission, such as Reverse Air Bag Houses, Electro static precipitators (ESP), Pulse Jet Bag Houses etc. to mitigate air pollution. The details of Air Pollution Control Devices (APCD's) installed by Unit-I and Unit-II of the respondent Cement Plant is annexed as **Annexure-I**.

The respondent cement plant has also taken several measures to control Fugitive emissions. All the cement manufacturing equipments in the respondent cement plant are operated after starting attached Air Pollution Control Devices, as they are interlocked with each other. Bag filters are in operation at every process location namely VRM Kiln, Coal Mill Section, Cement Section including Packing/Dispatch Section in the plant. Dust so collected in the bag filters is circulated in the closed loop circuit and is consumed in the process itself. Plant premises are cleaned with the help of manual road sweepers & water is sprinkled thereafter with water tankers. Bays at packing section are cleaned with the help of vacuum cleaners to mitigate the fugitive emissions during the loading of cement bags and plying of trucks in the premises. The approach road to the

cement plant as well as the exit road towards applicant's house has been concreted with reinforced cement concrete (RCC). Water sprinklers are installed to suppress dust emissions due to the plying of the trucks towards applicant's house. Trucks are required to be covered with tarpaulin in which cement is transported.

Details of pollution control measures taken by M/s ACC Cements Ltd. village Barmana Tehsil Sadar, District Bilaspur, H.P. to control Fugitive emissions at dust emitting points:-

i) **Unloading Section (Limestone, Coal & other relevant material)**

The respondent cement plant has provided atomized mist fog system at Limestone & Coal unloading Hoppers. Two numbers of bag filters are provided at the Mines Limestone Crushers. Dust Suppression system is provided at the Mines Haulage Road and at the associated conveyor belts. All the conveyor belts are covered with the Wind breaker GI Sheets.

ii) **Material handling section (Including transfer points).**

Material is unloaded on the enclosed tipplers having dust suppression system. Dust Suppression system is provided on the vehicular movement roads. All the associated conveyor belts are covered with Wind Breaker GI Sheets.

iii) **Coal Storage section**:-

Coal is unloaded on the enclosed tipplers having dust suppression system. Dust Suppression system is provided on the vehicular movement roads. All the associated conveyor belts are covered with Wind Breaker GI Sheets.

iv) **Clinker Cooler section**

At Clinker Cooler Section, bag filters are provided for venting the dust at cooler breaker discharge and at deep pan conveyor. Electro Static Precipitators (ESPs) are provided for the venting of dust from the Cooler Section. Dust so collected is re-circulated in the system in the close loop.

v) **Clinker stock pile section**:-

Bag Filter is provided for dust venting in the Silos and also during the clinker extraction.

vi) **Storage of Limestone, Gypsum, Flyash & other material**.

Limestone, Gypsum, Fly ash and other materials are stored in enclosed gantries. Dust Suppression system is provided on the vehicular movement roads. All the associated conveyor belts are covered with Wind Breaker GI Sheets.

vii) Cement packing section:

Bag Filters are provided at all the cement packing sections. Dust so collected is re-circulated in the system in the close loop.

viii) Silo section:-

Bag Filters are provided at all the Silo tops. Dust so collected is re-circulated in the system in the close loop.

ix) Roads:

Roads are vacuum cleaned and water tanker is operated after cleaning. Permanent Rain Guns are provided at the vehicular movement roads.

x) Tyre wetting section:

Tyre washer is provided at the Raw Material Gate for tyre wetting and cleaning. Water is recycled in a closed loop.

M/s ACC Limited has also addressed the observations made by the Joint Inspection Committee in its report dated 18.01.2025 and dated 15.04.2025, which are as follows:-

1. M/s ACC Limited has provided additional arrangements for fighting the accidental leakages / discharges such as mist fog guns at all expected sources of accidental leakages of short duration, rain guns around the boundary wall of unit as well as along the internal roads, bag houses of adequate size at every process, ESPs, vacuum cleaners, water sprinkling using water tankers etc.
2. M/s ACC Limited has carried out 03 layer plantation towards Sh. Kashmir Singh poultry farm along with boundary of packing section and plantation to cover empty spaces in the premises and adjacent areas has been completed.
3. Dust emissions in the plant including Clinker, Ash and Cement Silos area have been minimised by providing additional pollution control devices.
4. M/s ACC Limited has provided rain guns within the premises, on fly ash bulker, DG set road and along the exit road towards Sh. Kashmir Singh Poultry Farm to suppress fugitive dust emitted due to plying of loaded vehicles.

5. Mist fog guns have been installed at various locations of cement plant to mitigate fugitive emissions.
6. M/s ACC Limited has installed approx. 9 meters high extension of MS Sheet towards Sh. Kashmir Singh Poultry Farm and around the boundary of packing section. Total 200 meters length wise sheets has been installed.
7. M/s ACC Limited has provided 02 no's of tyre wetting system (i) At raw material exit gate (ii) At truck exit gate towards Sh. Kashmir Singh poultry farm and has provided oil and grease separation system.
8. The approach road to the cement plant as well as the exit road towards applicant's house has been concreted with reinforced cement concrete (RCC).
9. M/s ACC Limited has covered Clinker Loading Station with the sliding door and mist gun is installed and made operative for further suppression of dust emissions which was one of the source of fugitive emissions.
10. M/s ACC Limited has covered Cement Loading bays with GI Sheets and transparent curtains are installed to confine the dust within the loading area.

In addition to above air pollution control measures, as per directions issued by the State Board vide Letter No. 1457-59 dated 20.09.2024 to take immediate preventive measures at clinker loading section, M/s ACC Limited is in progress to install new clinker loading station to cater additional load of clinker loading.

II. Compliance and Regulatory measures:

In order to monitor and ensure the compliance of ambient air quality standards, manual monitoring stations have been set up at different locations of Unit-I and Unit-II of the M/s ACC Cement plant, Barmana. The officials of the State Board have been carrying out regular monitoring of the ACC Cement plant and the latest analysis results of Ambient Air Quality Monitoring are annexed as **Annexure-II**

Both Unit-I and Unit-II of the ACC Cement plant, Barmana have installed common Continuous Ambient Air Quality Monitoring Station (**CAAQMS**) and also installed Continuous Emission Monitoring System (CEMS) in all 12 number of stacks for real time data. The real time data of the stacks and Ambient Air Quality is being displayed on websites of Central Pollution Control Board (CPCB) and H.P. State Pollution Control Board (HPSPCB).

On the basis of CAAQMS online data, the State Board (HPSPCB) in the past has imposed Environmental Compensation of Rs. 1,09,50,000 (One crore, nine lakh and fifty thousand Rupees) on the respondent cement plant for not meeting the prescribed standards of ambient air quality (NAAQS 2009 standards for PM-10 against the yearly standard of 60µg/m³) for 365 days of violation i.e. from January 2021 to December 2021. Thereafter, the respondent cement plant has been complying with National Ambient Air Quality Standards (NAAQS) 2009 standards. The latest real time data of CAAQMS for the year 2025 is annexed as **Annexure-III** which is found to be within the prescribed limits. The CAAQMS data can be accessed at the Board's website at following link: https://hppcb.glensserver.com/#/publicPortal/categoryList

Subsequent to filing of status report dated 17.07.2025, the Committee conducted further joint inspection of the ACC Cement Plant, Barmana, District Bilaspur on 02.12.2025. The Committee also interacted with the complainant. The complainant i.e. Sh. Kashmir Singh has been sending photographs and videos of the alleged violations/ intermittent fugitive emissions by the ACC Cement Plant through whatsapp group created by the Joint committee members. The details of incidents (with time & date) as reported by complainant via photos/videos to the committee and response/compliance submitted by the unit are enclosed as **Annexure-IV collectively.** M/s ACC cements Ltd has been directed to ensure that breakdowns are minimised so as to prevent intermittent fugitive dust emissions.

III. Technical Expert Report regarding the cause of air pollution in the area/ near the house of complainant:

In order to generate objective and verifiable data, road dust sampling was carried out on dated 02.12.2025 near the complainant's premises to determine its characteristics and potential sources. The road dust sample of the exit road of the ACC Cement Plant towards Sh. Kashmir Singh's building was collected by the expert member in the presence of committee members and Sh. Sant Ram father of Sh. Kashmir Singh (Complainant). The collected dust sample was sealed in a zip-lock bag and transported for analysis.

Photographic documentation of the sampling process and laboratory analysis is provided as **Figure 1** and **Figure 2**, respectively.

As per the Report dated 21.01.2026 of the Technical Expert member, the dust sample collected from the RCC road near the complainant's building was sieved and the fraction collected <75µm, 75-150µm, 150-300µm, 300-600 µm sieve and over 600 µm sieves were collected and crushed into smaller fractions for further XRF analysis. The samples were analyzed in an XRF analyzer. **As per the XRF analysis report, the composition of the sample indicates a heterogeneous material. On average, 40% is CaO and 35% Al_2O_3 shows a mix of limestone-based dust along with cementitious**

product. The Report dated 21.01.2026 of the Technical Expert member is annexed as **Annexure-V.**

Conclusion:

The Technical Expert Report reveals that the RCC road dust near the house of the complainant contains a mix of normal dust and cement particles. On the other hand, the respondent cement plant has taken necessary pollution control measures and found to be complying with ambient air quality standards. The two member committee is of the view that the dust pollution near the house of the complainant is due to frequent breakdowns resulting in intermittent fugitive dust emissions, which is further aggravated due to proximity of complainant's house to the respondent Cement Plant.

It is submitted that in general, there are two types of dust emissions in cement plants (i) Dust/gas emissions through Stack or vent duct from process operation, having fixed point of release. (ii) Fugitive dust emissions i.e. the Dust that is generated or emitted from open air operations (emissions that do not pass through stack or vent). The sources of Fugitive emissions in cement manufacturing plants can be storage areas of raw material and finished products, coal, cement kiln dust, transfer operation, loading and unloading operations etc.

The Stack emissions or vent duct emissions have fixed point of release and can be controlled using efficient pollution control systems like Bag house filters, Electro Static Precipitator (ESP), Rotary Packing machines and other dust suppression methods. In the present case also, the respondent cement plant has ensured substantial compliance of emission standards.

As far as Fugitive emissions are concerned, the respondent cement plant has taken several measures to control fugitive emissions as enumerated above in this report. The approach road to the cement plant as well as the exit road towards applicant's house has been concreted with reinforced cement concrete (RCC). Water sprinklers are installed to suppress dust emissions due to the plying of the trucks towards petitioner house.

However, it is submitted that the Cement Plants falls under one of the 17 "Highly Polluting Industries" as per CPCB categorization of industries. Too many emission sources in cement plants make fugitive dust emissions difficult to control. Cement plants can take measures to mitigate fugitive dust emissions with varying degree of effectiveness. There are multiple complex operational phases in Cement Plants because of which there may be breakdowns causing intermittent fugitive emissions. M/s ACC

cements Ltd has been directed to ensure to make concerted efforts to minimise such intermittent operational breakdowns by adopting the latest technology within the plant to prevent intermittent fugitive dust emissions.

Lalit Thakur,
Environmental Engineer,
HPSPCB Shimla.

Indramani Dhada, (Limited to Annexure-V)
Assistant Professor,
Department of Civil Engineering,
IIT Ropar, Punjab

Urgent & Time Bound 1250

H.P. STATE POLLUTION CONTROL BOARD

Regional Office Bilaspur, Near PWD Rest House Dholra
Bilaspur, District Bilaspur, H.P. 174001

HPSPCB

No. PCB/RO/BLP(4)/ACC Ltd. Unit-1 (Vol-XI)/2024-2091-92 Dated:- 02/02/2026

To

Sh. Indramani Dhada,
Assistant Professor,
Department of Civil Engineering,
IIT Ropar, Punjab

Subject: Circulation of Draft Report prepared in compliance to order dated 17.12.2025 of Hon'ble NGT passed in O.A. No. 1332/2024 titled Kashmir Singh v/s State of Himachal Pradesh & ors.

Sir,

Please find enclosed herewith Draft report prepared in compliance order dated 17.12.2025 of Hon'ble NGT passed in the above cited matter, wherein, the Hon'ble NGT vide order dated 17.12.2025 had passed following directions:-

"...2. The report signed by two members of the Joint Committee may be filed within four weeks.

3. Report/comments by Dr. Narender Sharma, Scientist 'F', CPCB, another member of the Joint Committee may also be filed within four weeks.

4. List on 12.02.2026 for further hearing...."

In view of the above directions of Hon'ble NGT, a draft report of two members of the Joint Committee has been prepared and enclosed herewith for perusal & signatures please. In case there are any objections and changes are required, kindly intimate the same within 2 days in writing, please. The prompt action is solicited, so that the report may be filed before Hon'ble NGT at the earliest.

This may be treated as most urgent being time bound court matter.

Yours sincerely,

(Enc..as above)

Sd/-
Pawan Sharma
Nodal Officer-cum- Regional Officer,
HPSPCB, Bilaspur.

Copy to:- Dr. Narender Sharma, Scientist-F, Regional Directorate, CPCB, Chandigarh, 2nd Floor, Telephone Exchange, Bharat Sanchar Nigam Limited, Chandi Path, Sector 49C, Sector 49, Chandigarh, 160047: for information.

Pawan
Pawan Sharma
Nodal Officer-cum- Regional Officer,
HPSPCB, Bilaspur.

Gmail Legal Cell <legalcellhppcb@gmail.com>

Fwd: Circulation of Draft Report prepared in compliance to order dated 17.12.2025 of Hon'ble NGT

Indramani Dhada <idhada@iitrpr.ac.in> Thu, Feb 5, 2026 at 8:59 PM
To: HPSPCB RO Bilaspur <pcbrobilaspur2@gmail.com>
Cc: Narender Sharma <narendersharma.cpcb@nic.in>, Legal Cell <legalcellhppcb@gmail.com>, ms pcb <mshppcb1@gmail.com>

Dear Sir,
Please find the signed page.
Regards
Indramani

On Thu, Feb 5, 2026 at 12:46 PM HPSPCB RO Bilaspur <pcbrobilaspur2@gmail.com> wrote:

---------- Forwarded message ---------
From: **HPSPCB RO Bilaspur** <pcbrobilaspur2@gmail.com>
Date: Wed, Feb 4, 2026 at 12:39 PM
Subject: Circulation of Draft Report prepared in compliance to order dated 17.12.2025 of Hon'ble NGT
To: Narender Sharma <narendersharma.cpcb@nic.in>, <idhada@iitrpr.ac.in>

Respected Sir,

You are again humbly requested to do needful by today in this matter so that draft report could be finalise in Hon'ble NGT matter within please. The annexure also includes pdf file and word file of the Draft report.
With Regard,

Regional Officer

H.P. STATE POLLUTION CONTROL BOARD
Regional Office Bilaspur, Near HPPWD Rest House Dholra,
Tehsil & Distt: Bilaspur (H.P.)-174001
Tel:- 01978-223550
e-mail: pcbrobilaspur2@gmail.com
HPSPCB @Official_HPSPCB @AwarenessHPPCB/ hppcb.nic.in

LiFE Lifestyle for Environment

निवेदनः कागज़ बचाएँ, पेड़ बचाएँ. जब तक आवश्यक न हो इस दस्तावेज़ का प्रिंट न लें।
Please don't print this e-mail unless you really need to. Save Paper, Save Ink and Save environment too.

--
Respected Sir/Madam,

Please find the letter attached herewith for the favor of your kind information please.

With Regard,

Regional Officer

H.P. STATE POLLUTION CONTROL BOARD
Regional Office Bilaspur, Near HPPWD Rest House Dholra,
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Draft report.pdf
1812K

Annexure-I

Details of Air Pollution Control Devices (APCD's) provided in M/s ACC Ltd. Gagal Cement Works Unit-I and Gagal Cement Works Unit-II.

M/s ACC Ltd. Gagal Cement Works Unit-I			
Name of the Section	**Pollution load / Source**	**APCD Detail**	**Stack Height (mts)**
Raw Mill / Kiln	Raw material Grinding / Clinkering	Reverse Air Bag House (No. of Filter Bags = 2352)	155
Cooler	Clinkering	Electro Static Precipitator (ESP)	35
Coal Mill-1	Coal Grinding	Pulse Jet Bag House (No. of Filter Bags = 390 & 198)	64
Cement Mill-1	Cement Grinding	Pulse Jet Bag House (No. of Filter Bags = 300)	31
Cement Mill-2	Cement Grinding	Pulse Jet Bag House (No. of Filter Bags = 570)	31
Cement Mill-5	Cement Grinding	Pulse Jet Bag House (No. of Filter Bags = 315)	48
M/s ACC Ltd. Gagal Cement Works Unit-II			
Name of the Section	**Pollution load / Source**	**APCD Detail**	**Stack Height (mts)**
Raw Mill / VRM Kiln	Raw material Grinding / Clinkering	Pulse Jet Bag House (No. of Filter Bags = 4140 &1320)	122
Cooler	Clinkering	Electro Static Precipitator (ESP)	70
Coal mill-1	Coal Grinding	Pulse Jet Bag House (No. of Filter Bags = 1600)	71.5
Coal mill-2	Cement Grinding	Pulse Jet Bag House (No. of Filter Bags = 1600)	71.5
Coal mill-3	Cement Grinding	Pulse Jet Bag House (No. of Filter Bags = 1376)	80
Cement Mill-3 & 4	Cement Grinding	Pulse Jet Bag House (No. of Filter Bags = 630 & 630 respectively)	38.8

Regional Officer
HPSPCB Bilaspur

Annexure-II

Ambient Air Quality Monitoring, PM10 (µg/m³)

Sampling Location	Admin Block	Central Lubrication Cel	Transformer House	Mines Office	Club House	Limits (µg/m³)	Remarks
Sampling Date							
22.12.2025	52	92	56	43	40	100	Within Limit
31.10.2025	21	68	41	91	32	100	
24.9.2025	34	18	68	43	32	100	
30.08.2025	61	52	-	72	67	100	
26.6.2025	65	93	95	18	92	100	

Regional Officer
HPSPCB Bilaspur

Annexure-III

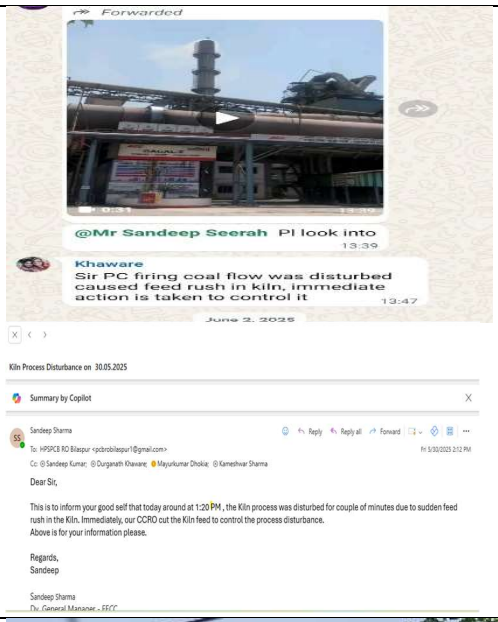
CAAQMS DATA- ACC Ltd (2025)												
Date of Month	PM 10 (µg/m³)											
	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25
1	69.81	66.81	22.21	30.94	17.07	44.43	19.38	55.77	14.43	90.33	81.8	40.07
2	52.57	51.12	32.9	34.56	10.66	26.95	22.69	15.72	15.78	87.08	110.34	49.97
3	51.86	54.1	28.02	23.91	11.08	24.74	32.61	28.3	16.04	88.81	105.06	43.95
4	127.49	62.42	19.92	19.63	9.79	22.35	48.66	36.72	12.03	72.07	88.24	38.08
5	249	34.83	20.4	22.97	13	27.22	113.49	23.1	21.85	38.97	108.82	34.22
6	150.75	34.02	30.43	23.53	92.11	43.12	100.77	28.64	30.61	29.77	69.38	30.45
7	33.48	36.56	28.9	27.55	12	74.42	23.66	36	25.15	19.47	56.56	26.85
8	45.04	33.05	30.58	36.35	9.87	83.03	94.93	46.52	30.07	23.1	53.1	25.49
9	58.55	29.62	32.99	37.73	9.87	67.44	199.23	39.79	33.54	30.45	55.81	25.77
10	94.44	30.74	37.36	28.3	8.5	61.64	126.17	56.58	41.46	40.57	53.65	25.84
11	136.33	30.13	26.5	15.62	8.91	69.66	70.43	36.88	39.53	45.8	138.25	28.21
12	100.82	25.63	20.99	10.06	10.99	70.65	361.21	33.13	54.44	54.38	53.27	32.65
13	43.98	27.59	24.9	12.91	8.5	45.89	1000	53.41	85.19	59.18	55.56	52.45
14	47.81	25.62	23.78	19.66	7.33	43.09	45.04	27.49	53.29	73.1	53.8	45.46
15	62.79	25.67	14.45	29.18	10.66	50.78	44.94	20.49	55.28	82.46	31.82	46.38
16	76.24	31.17	18.3	32.26	8.54	39	38.9	37.54	38.49	79.32	67.88	34.87
17	35.65	30.29	16.23	10.94	9.18	28.96	26.74	44.34	45.88	69.08	79.88	36.16
18	46.83	22.12	33.49	18.42	11.48	25.28	23.77	31.63	35.51	65.11	85.14	34.23
19	55.28	33.23	18.6	18.83	13.37	52.94	76.51	28.48	48.94	62.76	85.84	37.74
20	55.18	28.31	20.49	16.47	14.42	48.81	168.7	24.18	54.49	73.28	110.11	42.24
21	46.47	20.13	15.92	14.32	15.64	37.72	60.45	32.93	68.5	94.88	130.14	47.86
22	41.66	33.23	18.56	16.34	11.14	42.09	34.99	35.39	108.03	80.05	82.04	52.02
23	46.37	35.77	25.67	15.96	67.03	47.2	20.44	45.37	103.35	65	33.62	37.38
24	41.27	43.74	39.42	20.08	69.54	45.71	61.13	20.88	95.96	42.67	30.7	45.83
25	42.82	NA	38.81	7.19	21.25	37.05	70.35	11.99	90.61	61.54	32.33	40.24
26	45.82	NA	35.05	20.17	31.14	23.5	71.83	14.55	81.51	69.93	32.36	59.02
27	53.27	NA	32.29	9.34	59.66	29.55	158.03	29.08	67.03	75.69	42.2	50.27
28	54.78	14.44	35.96	29.01	61.36	23.99	190.01	39.74	70.63	93.1	27.73	47.72
29	67.05		25.53	18.3	43.47	21.64	173.7	37.04	78.96	110.36	25.43	49.43
30	68.8		23.71	17.67	34.25	53.84	70.65	28.6	77.36	78.02	29.49	44.51
31	76.09		20.28		39.82		98.8	21.02		75.28		73.78
Avg	70.26	34.41	26.21	21.27	24.24	43.75	117.60	32.94	53.13	65.53	67.01	41.26
	Annual Average PM 10 For Calender year 2025 = 49.8 µg/m³											

AQI	Category	Possible Health Impacts
0-50	Good	Minimal Impact
51-100	Satisfactory	Minor breathing discomfort to sensitive people
101-200	Moderate	Breathing discomfort to the people with lungs, asthma & Heart disease
201-300	Poor	Breathing discomfort to most people on prolonged exposure
301-400	Very Poor	Respiratory illness on prolonged exposure
401-500	Severe	Affects healthy people and seriously impacst those with existing diseases

Annexure-IV colly.

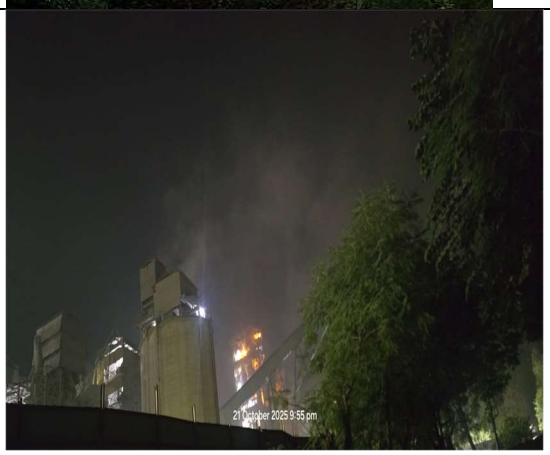
Gagal Cement Works, ACC Limited, PO Barmana, Distt. Bilaspur (HP)

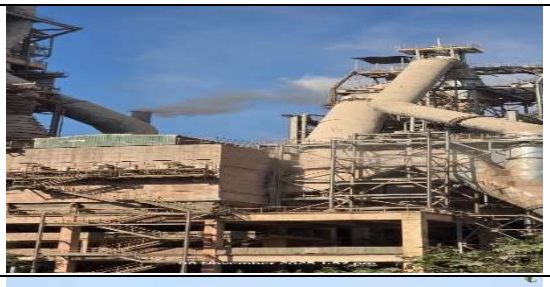
Sr.No.	Incidence Time & Date / Duration of Emission	Issue	Control Measures Taken	Picture
1	Raw Mill Silo Top air slide jammed and led to spillage & fugitive emissions. Date & Time:2/5/2025, 9:09:00 PM. Duration: 1-2 min	Foreign material blocked the air flow, along with the material. Material jammed led to oozing from the air slide.	Circuit stopped by the CCR Operator. Circuit emptied out , steel piece removed. Jam cleared.	
2	Heavy Stormy condition led fugitive emissions Date & Time: 13/05/2025, 5:42 PM, Duration: 2-3 min	Pre - Monsoon stormy conditions led to fugitive emissions.	The water sprinklers were under operation. Additionally, water tankers were deployed for wetting.	
3	Clinker DBC discharge chute jammed Date & Time:21/05/2025, 7:11 AM. Duration: 0.5 min	Steel plate from clinker cooler dislodged and passed along with the clinker. Jammed in the DBC discharge chute, led to clinker fall on the silo top.	Kiln & Cooler halted by CCR Operator. Steel plate removed and jam cleared. Afterwards Kiln circuit started.	
4	Dust Collector Hopper Jam led to fugitive emissions Date & Time: 21/05/2025 9:15 AM. Duration: 1 min	Material flushed from the hopper on the belt while releasing jam, led to emission.	Controlled by manual intervention immediately by site supervisor.	

5	Kiln PC Firing Coal flow was disturbed, resultant into feed rush in the Kiln. Date & Time 30/05/2025 1:20 PM. Duration: 2 minutes	Immediate action taken to control uncontrolled flow.	Feed cut. Kiln halted and emissions controlled from the ESP. Incident reported through whatts app.as well as by e mail to HPSPCB Regional Office. **Attached as Annexure A.**	
6	Cleaning job was under progress. Date & Time :01/06/2025 - 5:25 PM Duration : 1-2 mins.	Housekeeping was under progress in the cement mill section. During the cleaning and material collection, material fall inadvertently by the manpower, led to fugitive emissions.	Site supervisor after noticing the fugitive emissions, intervened and halted the cleaning job.	
7	Grid Power Failure from Kangoo Substation (HPSEB) at 8:05 PM . Date & Time : 03/06/2025 – 8:05 PM Duration: 35 minutes, Power resumed at 8:40 PM		Mail Intimation sent to HPSPCB **attached as Annexure B.**	

8	Summer stormy condition led to fugitive emission. Date & Time: 18/06/2025 - 3:00 PM. Duration:2-3 mins.	Pre monsoon stormy conditions led to fugitive emissions. wetting.	The water sprinklers were under operation and additionally water tankers were deployed for surface wetting.	
9	Grid Power Failure from Kangoo Substation (HPSEB) at 9:18 PM . Date & Time : 29/06/2025 - 9:18 PM Duration: Three minutes, power resumed at 9:22 PM. **Letter attached as Annexure C.**	All of a sudden plant crash stopped due to the Grid power supply failure.	Plant circuit was emptied out, before taking fresh feed, though the situation was controlled after power failure with in couple of minutes.	
10	Steam emanating from the Stack. Mail Intimation provided to the HPSPCB Office. Date & Time : 23.07.2025 7:28 AM Duration : 10-15 minutes morning time.	Steam emanating from the Stack. **Attached as Annexure D1 & D2.**	Due to the temperature change inside the mill and outside ambient air temperature difference, hot air condenses and water vapors emanates from the circuit.	
11	Mail Intimation to HPSPCB office for power failure from the Kangoo132 Kv sub-Station on 27th July 2025. This resulted in an entire plant crash shutdown at 4:40 PM. The plant power resumed at 9:30 PM during the night.			**Attached as Annexure E.**

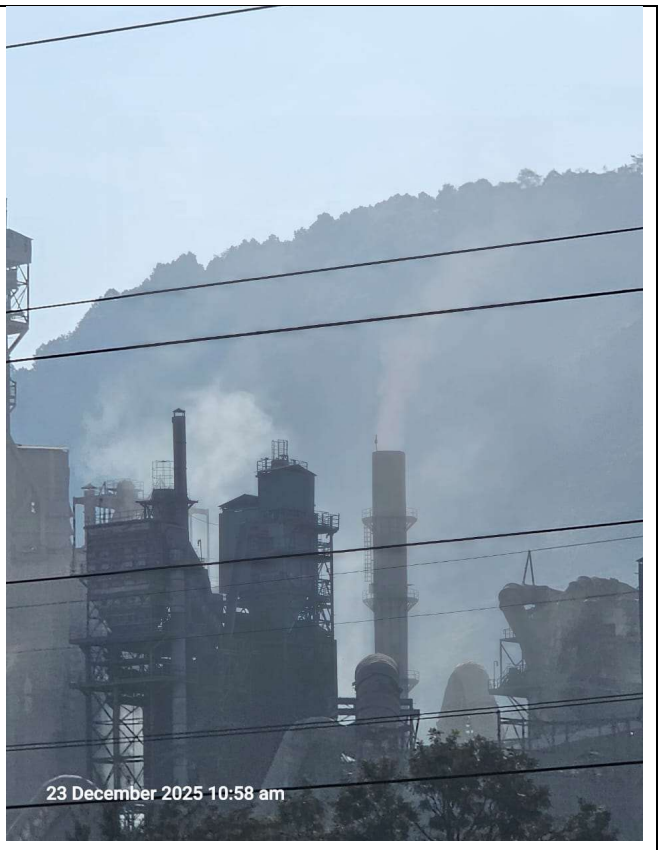
11	Mail Intimation to HPSPCB office dated 24.09.2025 about the raw meal conveying flap stuck up in the Cyclone #5 of Kiln Unit-I.			**Attached as Annexure F.**
12	Inertization circuit tripped. Due to this dust passed from the circuit. Date & Time: 4/10/2025 10:38:00 AM Duration : 20-30 seconds.	Dust led to bypass the circuit and generated fugitive emissions.	Damper closed. Emissions controlled.	
13	Kiln tripped at around 07:00 PM Feed take at 09:00 PM. Kiln under stabilization. Date & time : 4/10/2025 8:56:00 PM Duration : 2- 3 mins.	Kiln remained shutdown for two hours.	Kiln tripped due to the instrumentation malfunction.	
14	Kiln-2 Cooler fan & ESP fan tripped caused pressurization. Date & Time: 8/10/2025 Duration : 7:17:00 PM	Kiln stopped. Circuit emptied out gradually. Emissions controlled. Restarted and circuit normalized.	Kiln tripped due to instrumentation malfunction.	

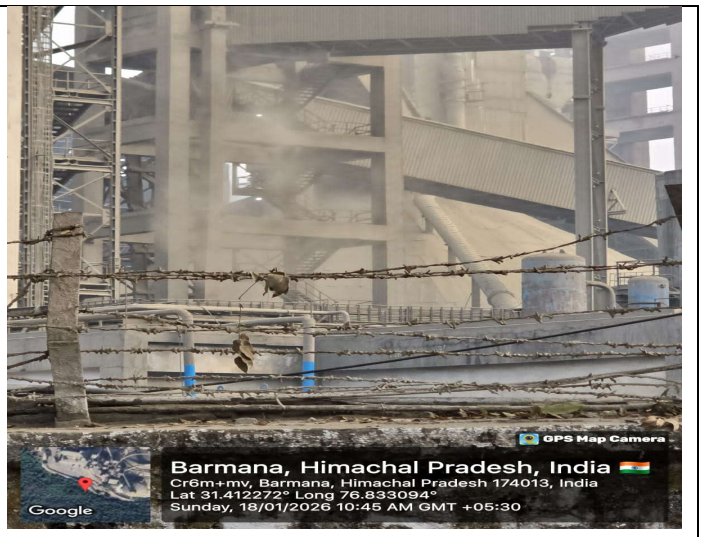
15	Patch of fine clinker leads to fugitive emission, control within 10 minutes. Date & time : 14/10/2025, 5:36:00 PM .Duration : 3-4 mins	Fine clinker collected in bag filter got released without mixing with the clinker. Led to fugitive emissions	Fresh clinker started in the DBC and mixed with the fine dust. Emissions controlled.	
16-A	G-2 Clinker diverted to New Clinker silo but DBC discharge chute got jam, which leads fugitive emission. Clinker taken back In CSP & emission control. Date & Time: 21/10/2025 9:55:00 PM. Duration : 2 mins.	Material was accumulated underneath the DBC, led to fugitive emissions while DBC was started.	DBC stopped and clinker taken back into the old stockpile. Cleaning done underneath the DBC next morning. Emissions controlled. Before picture	
16-B	New Clinker silo but DBC discharge chute got jam , which leads fugitive emission. Clinker taken back In CSP & emission control. Date & Time: 21/10/2025 10:00:00 PM.	Circuit clean and dust free.	After Picture	
17	Mail Intimation to HPSPCB office dated 31.10.2025. Gagal Unit- I Cement Mill #5 AVMP Bag Filter hopper chute was got jammed. **Attached as Annexure G.**	Cement Mill #5 AVMP Bag Filter hopper chute was got jammed. It occurred due to the obstruction created to the material flow by the steel plate dislodged	Stop the mill. Plate removed. Jam removed and material flow started. Controlled the emission.	

		inside the hopper.		
18	Bag house fan RPM reduce due to false indication. Date & Time : 05/11/2025 13:57 PM Duration :0.5 – 1 min.		Bag House RPM reduced to control emissions.	
19	Emission from fly ash bin area, deputed manpower to inspect & control emission. Date & Time : 07/11/2025 11;32 AM Duration :3 min.	Pipe punctured due to the abrasive nature of fly ash, fly ash released, generated fugitive emissions.	Circuit closed. Pipe repaired and re started. Emissions controlled.	
20	Mail Intimation to HPSPCB office dated 8th November 2025 for system got pressurized in the VRM Circuit of Line II and remedial measures taken thereon to control emissions.			**Attached as Annexure H.**
21	Clinker transport belt discharge chute jam , leads to spillage. Date & Time: 9/11/2025. Duration: 6:52:00AM	Clinker jammed and jam removed from the clinker belt	Clinker transport circuit stopped and emissions controlled.	
22	Clinker Silo top housekeeping & cleaning was under progress. Clinker silo top area housekeeping led to fugitive emissions.	Clinker fall inadvertently by the workers, led to fugitive emissions.	Activity stopped and material was filled into the silo. Emissions controlled.	

23	Clinker hopper overflow due to bin level sensor malfunction.		Feed cut. Bin level sensor checked. Rectified and emissions controlled.	
24	Leakage from DBC discharge chute. Date & Time : 15/11/2025 11:00 AM Duration – 1-2 mins		DBC stopped. Emissions controlled.	
25	Fly ash conveying line got jam , line clear & then started Duration : 10 seconds	Grass chocked the conveying line and fly ash released from the flange due to pressurization.	Immediately stopped by the site operator . Emissions controlled.	
26	Clinker DBC discharge chute belt area fugitive emission, stop corrected & started. Date & Time : 26/11/2025 5:24 PM Duration : 1-1.25 mins	Wear out steel plate dislodged from the dbc and stuck into the chute.	Steel plate removed manually. Jam cleared and clinker flow normalised.	
27	Cement mill-2 Dust collector hopper jam, led pressurization from fresh air damper. Date & Time : 28/11/2025 Duration :2 min	Cement mill-2 Dust collector hopper jam, leads pressurization from fresh air damper.	Jam removed. Fresh air damper closed.	

28	Fugitive emissions in the Gagal-I Clinker Silo circuit within the clinker transport and silo section. Date & Time : 12/12/2025 Time :3:05 PM.	The Clinker Silo bag filter tripped due to vibrations in the bag filter fan meant for the clinker silo venting. The vibration sensor was inspected. It was found that the sensor had been affected by a localized circuit disturbance or fan jerk.	The Maintenance Team and Instrument Mechanic visited the site to ascertain the root cause of the tripping. The Instrument Mechanic cleaned and re install the vibration sensor. Bag filter was re started and circuit was subsequently found to be free of dust.	 Intimation mail sent is attached as **annexure I.**
29	Steam emanating from the Stack. Mail Intimation provided to the HPSPCB Office. Date & Time: 16.12.2025 8:10 AM	Steam emanating from the Stack.	Due to the temperature change inside the mill and outside ambient air temperature difference, hot air condenses and water vapors emanates from the circuit.	

30	The Gagal-II pre-heater and pet coke mill section. Date & Time : 23/12/2025 Time :10:57 AM.	Fine coal FK pump seal leakage. The desired quantity of the coal could not be fed to the fine coal bin hopper and resulted into Kiln firing process disturbance.	Further in consequence to this leakage from coal transferring pump, the desired quantity of the coal could not be fed to the fine coal bin hopper and resulted into Kiln firing process disturbance. This disturbance led to the Cooler ESP malfunctioning, leading to the visible emissions for a couple of minutes.	 Intimation mail sent is attached as **annexure III.**

31	Fugitive emissions in the Gagal-II Clinker Silo circuit within the clinker transport and silo section. Date & Time : 18/01/2026 Time :10:45 AM.	Due to water ingress inside the bag filter through compressed air resulting its hopper jam. Now due to the confluence water with clinker dust collected in the bag filter hopper it get rock harden, and during removal of top hard layer with a hilti sudden fine material flushed from the hopper resulting fugitive emission within that area.	The emission which was immediately controlled by the team already working at that place. Emission was confined to the area beneath the bag filter hopper.	 Intimation mail sent is attached as **annexure II.**

32	Fugitive emissions in the Gagal-II coal conveying blower breakdown. Date & Time : 19/01/2026 Time :12:15 PM.	Coal conveying blower breakdown and temperature at kiln back end came down	Root cause was due to the coal conveying blower breakdown, temperature at kiln back end came down and kiln feed was rushed. Immediately kiln was stopped and celciner blower issue was resolved and started feed smoothly at 8.15 PM	
33	Fugitive emissions in the Gagal-I & II due to grid failure. Date & Time: 22/01/2026 Time: 12:10 PM.	Power failure from the HPSEBI 132 kV Kangoo Grid.	The bag house of both the Kilns tripped along with the Kiln and entire circuit including preheater got positive, resulting into the uncontrollable fugitive emissions. The situation got controlled and dust free after a couple of minutes. Thereafter, power resumed and Kilns were started. The feed was taken and now the Kilns are under stabilization.	 Reply 22 Jan 26 (2).pdf

HPSPCB

H.P. STATE POLLUTION CONTROL BOARD

Regional Office Bilaspur, Near HPPWD Rest House Dholra,
Tehsil Sadar, District Bilaspur Himachal Pradesh
E-mail: pcbrobilaspur2@gmail.com

No. PCB/RO/BLP/(4) ACC Ltd./Vol-XII/2025- 2052 **Dated-** 22/01/26

To

The Plant Head,
ACC Gagal Cement Works, VPO Barmana,
Tehsil Sadar, Distt. Bilaspur (H.P.).

Subject: **Regarding Complaint of Fugitive Emissions.**

Sir,

This is in reference to the photographs and videos received on WhatsApp from Sh. Kashmir Singh S/o Sh. Sant Ram, Village Barmana of the fugitive emissions from your plant on dated 22.01.2026. The photographs of the same are enclosed as **Annexure-1**.

In this regard, you are directed to immediately stop the fugitive emissions and take remedial measure immediately. The compliance report in this regard shall be submitted to this office today itself.

Treat it as Most Urgent please.

Encls: (Photographs & video attached through email).

Regional Officer
HPSPCB Regional Office Bilaspur
Telephone No- 01978-223550

HPSPCB

H.P. STATE POLLUTION CONTROL BOARD

Regional Office Bilaspur, Near HPPWD Rest House Dholra,
Tehsil Sadar, District Bilaspur Himachal Pradesh
E-mail: pcbrobilaspur2@gmail.com

No. PCB/RO/BLP/(4) ACC Ltd./Vol-XII/2025- 2033 **Dated-** 19/01/26

To

The Plant Head,
ACC Gagal Cement Works, VPO Barmana,
Tehsil Sadar, Distt. Bilaspur (H.P.).

Subject: **Regarding Complaint of Fugitive Emissions.**

Sir,

This is in reference to the photographs and videos received on WhatsApp from Sh. Kashmir Singh S/o Sh. Sant Ram, Village Barmana of the fugitive emissions from your plant on dated 18.01.2026 and 19.01.2026. The photographs of the same are enclosed as **Annexure-1**.

In this regard, you are directed to immediately stop the fugitive emissions and take remedial measure immediately. The compliance report in this regard shall be submitted to this office today itself.

Treat it as Most Urgent please.

Encls: (Photographs attached).

Regional Officer
HPSPCB Regional Office Bilaspur
Telephone No- 01978-223550

Time Bound

H.P. STATE POLLUTION CONTROL BOARD
Regional Office Bilaspur, Near HPPWD Rest House Dholra,
Tehsil Sadar, District Bilaspur Himachal Pradesh
HPSPCB
Telefax- 01978-223550, E-mail: pcbrobilaspur2@gmail.com

No. PCB/RO/BLP/(4)/ACC Ltd (Unit – I)/2025- 1895 **Dated-** 16/12/25

To

The Plant Head
ACC Gagal Cement Works, VPO Barmana
Tehsil Sadar, Distt. Bilaspur (H.P.).

Subject: Regarding Complaint of fugitive emissions.

This is in reference to the photographs and videos received on whatsapp from Sh. Kashmir Singh, s/o Sh Sant Ram, Village Barmana of the fugitive emissions from your plant on dated : 16.12.2025. The photographs of the same are enclosed as Annexure-I.

In this regard, you are directed to immediately stop the fugitive emissions and take remedial measure immediately. The compliance report in this regard shall be submitted to this office today itself.

Treat it as Most Urgent please.

Encls: (Photographs and Videos sent through email)

Regional Officer
HPSPCB, RO, Bilaspur
Distt. Bilaspur

Urgent
Time Bound

HPSPCB

H.P. STATE POLLUTION CONTROL BOARD

Regional Office Bilaspur, Near HPPWD Rest House Dholra,
Tehsil & Distt. Bilaspur (Himachal Pradesh)-174001
pcbrobilaspur2@gmail.com http://hppcb.nic.in/

No. PCB/RO/BLP/(4) ACC Ltd. Unit-I(Vol-XI)/2024- 1078 Dated: 20/8/25

To

The Director Plant
M/s ACC Ltd. (Gagal Cement Works)
VPO Barmana, Tehsil Sadar, Distt. Bilaspur HP.

Subject: Notice under Air (Prevention and Control of Pollution), 1981.

This is in reference to the videos and photographs received from the local resident of VPO Barmana, Tehsil Sadar, Distt. Bilaspur (HP) through Whatsapp on dated 19.08.2025 showing the fugitive dust emissions and some pictures showing abnormal emissions from the stacks of your plant during odd hours. Photographs and videos clearly indicating that no coercive measures / actions have been taken by you to control fugitive emissions as well as stack emissions. ***(Photographs & videos attached with email)***

Keeping aforementioned stated facts into consideration, you are hereby directed through this letter to explain your position w.r.t. failure to control fugitive emission as well as deviation in dust loaded flue gas emissions from stacks and further directed to immediately bring down all the parameters within prescribed standards along with maintenance of air pollution control devices (APCDs) and submit the compliance report of aforementioned directions within 02 days positively.

Treat it as Urgent.

Encl: Photographs & Videos

Regional Officer
HPSPCB Regional Office Bilaspur
01978-223550

o/c

H.P. STATE POLLUTION CONTR BOARD
Regional Office Bilaspur, Near HPPWD Rest House Dhobra,
Tehsil & Distt: Bilaspur (Himachal Pradesh)-174001
E-mail : pcbrobilaspur2@gmail.com

No. PCB/BLP (167) /O.A. No. 1332/2024- 913-14 Dated- 23/7/25

To

The Superintending Engineer,
HPSEBL Bilaspur,
Distt Bilaspur.

Subject: Information w.r.t. Power Grid Failure .

Sir,

This has reference to the observation made by joint committee constituted by Hon'ble NGT in O.A. No 1332 of 2024 titled as Kashmir Singh V/s State of H.P.

In this context, the latest inspection of M/s ACC Ltd. Village Barmana, Tehsil Sadar, Distt. Bilaspur was carried out on dated 14.07.2025. During the inspection, respective members of committee viz. Regional Director, CPCB Chandigarh, Er. Lalit Thakur, EE, PCB & Prof (Dr.) Indramani Dhada IIT Ropar has sought information on total number of power grid failures for last 6 months impacting Bilaspur including m/s ACC Ltd. such report shall also include duration of such failures and restoration of the same .

You are requested to kindly supply the information within 7 days, so that joint committee could be apprised accordingly.

Submitted information and further necessary action, please.

Yours faithfully,

Regional Officer
HPSPCB, Regional Office Bilaspur
Telephone No-01978-223550

Copy to:

1. **Sh. Sandeep Sharma, DGM Environment, Associated Cement Companies Ltd.** VPO Barmana, Tehsil Sadar Distt Bilaspur, with request to further provide information of such power failures along with preventive measures taken by your unit to prevent fugitive dust emissions for last 6 months.

Regional Officer
HPSPCB, Regional Office Bilaspur
Telephone No-01978-223550

Outlook

Kiln Process Disturbance on 30.05.2025

From Sandeep Sharma <SANDEEP.SHARMA9@adani.com>
Date Fri 5/30/2025 2:12 PM
To HPSPCB RO Bilaspur <pcbrobilaspur1@gmail.com>
Cc Sandeep Kumar <sandeep.seerah@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Mayurkumar Dhokia <mayur.dhokia@adani.com>; Kameshwar Sharma <kameshwar.sharma@adani.com>

Dear Sir,

This is to inform your good self that today around at 1:20 PM , the Kiln process was disturbed for couple of minutes due to sudden feed rush in the Kiln. Immediately, our CCRO cut the Kiln feed to control the process disturbance.
Above is for your information please.

Regards,
Sandeep

Sandeep Sharma
Dy. General Manager - EECC,
Gagal Cement Works, ACC Limited,
PO Barmana - 174 013, Distt. Bilaspur,
Himachal Pradesh.
Fax +91-1978-244067, Mobile +91-98166-16912
sandeep.sharma9@adani.com
www.adani.com

Outlook

Power failure from 132 kV Kangoo sub station

From Sandeep Sharma <SANDEEP.SHARMA9@adani.com>
Date Wed 6/4/2025 10:13 AM
To HPSPCB RO Bilaspur <pcbrobilaspur1@gmail.com>
Cc Sandeep Kumar <sandeep.seerah@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Parmanand Rai <PARAMANAND.RAI@adani.com>; Ashok Kumar <ashok.k@adani.com>; Kameshwar Sharma <kameshwar.sharma@adani.com>

Dear Sir,

This is to inform your good self that due to the bad weather and heavy rainfall in the region, Kilns of both the plants were tripped at 8:05 PM due to the power failure from the Kangoo132 Kv sub-Station at 8:00 PM on 3rd June 2025.

After resuming power , the Kilns were started at 09:40 PM of 3rd June 2025.

This is for your information please.

Regards,
Sandeep

Sandeep Sharma
Dy. General Manager - EECC,
Gagal Cement Works, ACC Limited,
PO Barmana - 174 013, Distt. Bilaspur,
Himachal Pradesh.
Fax +91-1978-244067, Mobile +91-98166-16912
sandeep.sharma9@adani.com
www.adani.com

adani
Cement

ACC/GCW/ENV/25/07/28 28th July 2025

The Regional Officer,
H P State Pollution Control Board,
Near HPPWD Rest House, Dholra,
Bilaspur -174001

Sub : Information w.r.t. Power Grid Failure.

Dear Sir,

This is in reference to the subject matter and letter #PCB/BLP(167)/O.A. No. 1332/2024-91314 dated 23rd July 2025 vide which your good self-have asked us to provide the information on the Power Grid Failure and measures taken thereon.

Please find attached herewith the data summarized as advised. Kindly acknowledge the receipt of the same.

Thanking you,
Yours faithfully,
For ACC Limited,

Deputy General Manager (Environment)
Gagal Cement Works
Encl:- As Stated

Received
Despatcher 01/8/25
HP State Pollution Control Board
Distt. Bilaspur (HP)

ACC Limited
Gagal Cement Works
VPO Barmana, Tehsil Sadar
Distt. Bilaspur 174 013
Himachal Pradesh, India

www.acclimited.com

CIN L26940MH1936PLC002515

Registered Office: Cement House, 121, Maharshi Karve Road, Mumbai 400 020, Maharashtra, India

Gagal Cement works

ACC Limited

Fugitive Dust Emission in plant

Date	From	To	Reason/Remarks
30.05.2024	1:20 PM	1:30 PM	K-2 Process disturb due to sudden feed rush
21.11.2024	6:30 AM	6:45 AM	Power trip from Kangu
11.01.2025	7:00 AM	7:15 AM	Kiln-1 Stopped due to Red spot , started & under stablization
17.01.2025	5:00 PM	5:15 PM	Kiln-2 Stopped due to cyclone bricks failure,cyclone jam
14.02.2025	3:00 PM	3:10 PM	Kiln-2 started after annual shutdown activity
23.02.2025	8:15 AM	8:20 AM	Kiln-1 process disturbance due to coating buildup feed cut
12.03.2025	1:10 PM	1:25 PM	Kiln-1 Stop due to roller bearning temp high
20.03.2025	5:24 PM	5:36 PM	Kiln-2 Stop for Clinker cooler breakdown
16.04.2025	10:36 PM	10:41 PM	Power blackout, Entire process stop
01.05.2025	6:30 PM	10:30 PM	Power blackout, Entire process stop
02.05.2025	9:07 AM	9:11 AM	Raw mill top air slide jam lead to spillage 7 fugitive emission
03.05.2025	9:40 AM	10:00 AM	K-1 Coating rush & process disturb
13.05.2025	5:42 PM	6:10 PM	Extreme atormy condition led fugitive emission
21.05.2025	9:10 AM	9:21 AM	CM-5 Dust collector hopper jam lead to fugitive emission
21.05.2025	7:08 AM	7:20 AM	Clinker DBC discharge chute jammed
03.06.2025	8:05 PM	9:40 PM	Power trip from Kangu
30.05.2025	1:25 PM	1:50 PM	PC firing coal flow was disturbed
01.06.2025	5:22 PM	5:35 PM	Housekeeping job under progress in packing house
13.06.2025	2.00 PM	2.10 PM	Power trip from Kangu
18.06.2025	4.25 PM	4.50 PM	Extreme atormy condition led fugitive emission
29.06.2025	9:18 PM	9:22 PM	Power trip from Kangu

Outlook

Power failure from the Kangoo132 KV sub-Station

From Sandeep Sharma <SANDEEP.SHARMA9@adani.com>
Date Tue 7/29/2025 9:57 AM
To HPSPCB RO Bilaspur <pcbrobilaspur1@gmail.com>
Cc Mahaveer Singh Bolia <MAHAVEERSINGH.BOLIA@adani.com>; Mayurkumar Dhokia <mayur.dhokia@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Parmanand Rai <PARAMANAND.RAI@adani.com>; Ashok Kumar <ashok.k@adani.com>

Dear Sir,

This is to inform your good self that due to some technical snag , there was a power failure from the Kangoo132 Kv sub-Station on 27th July 2025. This resulted in an entire plant crash shutdown at 4:40 PM. The plant power resumed at 9:30 PM during the night.

Thereafter, one by one plants were started. Line 1 was started at 1:05 AM and Line 2 was started at 2:30 AM respectively on 28th July 2025. However, as the plant was crash shutdown, subsequently it took the entire day of 28th July 2025 to get the plant stabilize.

Now, the plant is stabilized and is under operation. This is for your information please.

Regards,
Sandeep

Sandeep Sharma
Dy. General Manager - EECC,
Gagal Cement Works, ACC Limited,
PO Barmana - 174 013, Distt. Bilaspur,
Himachal Pradesh.
Fax +91-1978-244067, Mobile +91-98166-16912
sandeep.sharma9@adani.com
www.adani.com

Kiln Process Disturbance on 24.09.2025

From Sandeep Sharma <SANDEEP.SHARMA9@adani.com>
Date Wed 9/24/2025 12:18 PM
To HPSPCB RO Bilaspur <pcbrobilaspur2@gmail.com>
Cc Mahaveer Singh Bolia <MAHAVEERSINGH.BOLIA@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Dr. Pramod Ranjan <Pramod.Ranjan@adani.com>; Kameshwar Sharma <kameshwar.sharma@adani.com>; Mayurkumar Dhokia <mayur.dhokia@adani.com>

1 attachment (2 MB)
Screenshot_20250924-120431.Photos.png;

Dear Sir,

This is to inform your good self that today around at 6:35 AM, the raw meal conveying flap stuck up in the Cyclone #5 of Kiln Unit-I.
Due to this, raw meal accumulated in the cyclone and sudden material released from cyclone, caused the material rush into the Kiln.

The Kiln process experienced a brief disturbance due to a sudden influx of feed. Promptly, our CCR operator halted the Kiln feed to mitigate the disruption. Within a few minutes, the process was stabilized. Subsequently, the stack was clear and clean. For your reference, please find attached a photograph taken post-stabilization.

Above is for your good self's information please.

Regards,
Sandeep

AVMP Bag Filter Hopper Jam

From Sandeep Sharma <SANDEEP.SHARMA9@adani.com>
Date Fri 10/31/2025 11:47 AM
To HPSPCB RO Bilaspur <pcbrobilaspur2@gmail.com>
Cc Mahaveer Singh Bolia <MAHAVEERSINGH.BOLIA@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Mayurkumar Dhokia <mayur.dhokia@adani.com>; Ankit Dhiman <ANKIT.DHIMAN@adani.com>; Kameshwar Sharma <kameshwar.sharma@adani.com>

Dear Sir,

On 30th October 2025 at about 4:45 PM, Gagal Unit-I Cement Mill #5 AVMP Bag Filter hopper chute was got jammed. It occurred due to the obstruction created to the material flow by the steel plate dislodged inside the hopper.

During the removal of jam and steel plate, material rushed from the circuit for some time and led to localized fugitive emissions. The plate was removed manually by the shift supervisor.

After jam removal the circuit was re started with normalized operation.

This is for your good self's information please.

Regards,
Sandeep

Sandeep Sharma
Dy. General Manager - EECC,
Gagal Cement Works, ACC Limited,
PO Barmana - 174 013, Distt. Bilaspur,
Himachal Pradesh.
Fax +91-1978-244067, Mobile +91-98166-16912
sandeep.sharma9@adani.com
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Outlook

VRM Kiln Process disturbance on 08.11.2025

From Sandeep Sharma <SANDEEP.SHARMA9@adani.com>
Date Sat 11/8/2025 4:59 PM
To HPSPCB RO Bilaspur <pcbrobilaspur2@gmail.com>
Cc Mukesh Saxena <Mukesh.Saxena@adani.com>; Mahaveer Singh Bolia <MAHAVEERSINGH.BOLIA@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Mayurkumar Dhokia <mayur.dhokia@adani.com>; Kameshwar Sharma <kameshwar.sharma@adani.com>

Dear Sir,

This is to inform your good self that today afternoon there was a system got pressurized in the VRM Circuit of Line II. Due to which fugitive emissions emanate from the circuit for a couple of minutes. The Kiln Operator got the alarm immediately and cut the VRM & Kiln feed.
After the action was taken, the circuit was emptied out gradually and taken the feed again.

The plant got stabilized within a couple of minutes. This is for your good self's information please.

Regards,
Sandeep Sharma

Outlook

Fugitive emissions in the Gagal-I Clinker Silo Circuit

From Sandeep Sharma <SANDEEP.SHARMA9@adani.com>
Date Sat 12/13/2025 12:05 PM
To HPSPCB RO Bilaspur <pcbrobilaspur2@gmail.com>
Cc Mahaveer Singh Bolia <MAHAVEERSINGH.BOLIA@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Mayurkumar Dhokia <mayur.dhokia@adani.com>; Ashok Kumar <ashok.k@adani.com>; Parmanand Rai <PARAMANAND.RAI@adani.com>; Bhupesh Kumar <bhupesh.kumar@adani.com>; Kameshwar Sharma <kameshwar.sharma@adani.com>

Dear Sir,

I wish to bring to your attention an incident of fugitive emissions that occurred yesterday afternoon within the clinker transport and silo section. Upon investigation by the Central Control Room Operator (CCRO), it was determined that the Clinker Silo bag filter experienced a trip due to elevated vibrations during the shift changeover. Specifically, fan #08FN19, associated with HAC code 491FN3, was identified as having tripped due to the high vibrations. This bag filter is meant for the venting the clinker silo.

The issue was promptly reported by the CCR Operator to the Maintenance Team. The Maintenance Team, comprising an Instrument Mechanic and Mechanical Maintenance personnel, immediately visited the site to ascertain the root cause of the tripping. During their assessment, the bag filter impeller was checked for any imbalances, and the vibration sensor was thoroughly inspected. It was found that the sensor had been affected by a localized circuit disturbance or fan jerk.

The Instrument Mechanic proceeded to clean and reinstall the vibration sensor. Following this intervention, the bag filter was restarted, and the clinker circuit was subsequently found to be free of dust.

Regards,
Sandeep Sharma

Sandeep Sharma
Dy. General Manager - EECC,
Gagal Cement Works, ACC Limited,
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Himachal Pradesh.
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Outlook

Fugitive emission in the Gagal 2 clinker transfer circut

From Kameshwar Sharma <kameshwar.sharma@adani.com>
Date Mon 1/19/2026 3:39 PM
To HPSPCB RO Bilaspur <pcbrobilaspur2@gmail.com>
Cc Mahaveer Singh Bolia <MAHAVEERSINGH.BOLIA@adani.com>; Mayurkumar Dhokia <mayur.dhokia@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Sandeep Sharma <SANDEEP.SHARMA9@adani.com>; Parmanand Rai <PARAMANAND.RAI@adani.com>; Bhupesh Kumar <bhupesh.kumar@adani.com>

4 attachments (488 KB)
IMG-20260119-WA0107.jpg; IMG-20260119-WA0105.jpg; Photo.jpg; Phota.jpg;

Respected Sir,

I wish to bring to your attention an incident of fugitive emission that occurred yesterday at 10.45 AM within the new transferring tower of Gagal 2. Due to water ingress inside the bag filter through compressed air resulting its hopper jam. Now due to the confluence water with clinker dust collected in the bag filter hopper it get rock harden, and during removal of top hard layer with a hilti sudden fine material flushed from the hopper resulting fugitive emission within that area which was immediately controlled by the team already working at that place.
Emission was confined to the area beneath the bag filter hopper.

This is for your kind information please.

With regards,
Kameshwar Sharma
Adani Cements Ltd.
Gagal Cement Works
Mob: +919805078272
I can't afford to fall short on clean air and water.

adani Cement Ambuja Cement ACC udAAAn Hum Karke Dikhate Hain

Outlook

Fugitive emission in Gagal II

From Kameshwar Sharma <kameshwar.sharma@adani.com>
Date Tue 1/20/2026 9:28 PM
To HPSPCB RO Bilaspur <pcbrobilaspur2@gmail.com>
Cc Mahaveer Singh Bolia <MAHAVEERSINGH.BOLIA@adani.com>; Mayurkumar Dhokia <mayur.dhokia@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Sandeep Sharma <SANDEEP.SHARMA9@adani.com>; Parmanand Rai <PARAMANAND.RAI@adani.com>

Respected Sir,

I wish to bring to your kind notice that an incident of fugitive emission occurred at 12.15 PM within Gagal Cement Works Unit II. Root cause was due to the coal conveying blower breakdown, temperature at kiln back end came down and kiln feed was rushed. Immediately kiln was stopped and celciner blower issue was resolved and started feed smoothly at 8.15 PM.

With warm regards,
Kameshwar Sharma
Adani Cements Ltd.
Gagal Cement Works
Mob: +919805078272
I can't afford to fall short on clean air and water.

adani Cement | Ambuja Cement ACC | udAAAn Hum Karke Dikhate Hain

Outlook

Fugitive emission

From Kameshwar Sharma <kameshwar.sharma@adani.com>
Date Thu 1/22/2026 6:55 PM
To HPSPCB RO Bilaspur <pcbrobilaspur2@gmail.com>
Cc Mahaveer Singh Bolia <MAHAVEERSINGH.BOLIA@adani.com>; Mayurkumar Dhokia <mayur.dhokia@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Sandeep Sharma <SANDEEP.SHARMA9@adani.com>; Parmanand Rai <PARAMANAND.RAI@adani.com>

2 attachments (389 KB)
IMG-20260122-WA0250.jpg; IMG-20260122-WA0251.jpg;

Dear Sir,

I wish to inform your good self that due to power failure from the HPSEBI 132 kV Kangoo Grid, both the Kilns of Unit I and Unit II were tripped at 12.10 PM. The bag house of both the Kilns tripped along with the Kiln and entire circuit including preheater got positive, resulting into the uncontrollable fugitive emissions. The situation got controlled and dust free after a couple of minutes. Thereafter, power resumed and Kilns were started. The feed was taken and now the Kilns are under stabilization.

Latest photographs are attached herewith for your information please.

With Regards,
Kameshwar Sharma
Adani Cements Ltd.
Gagal Cement Works
Mob: +919805078272
I can't afford to fall short on clean air and water.

adani Cement Ambuja Cement ACC udAAAn Hum Karke Dikhate Hain

Outlook

Fine Coal FK Pump Seal Leakage

From Sandeep Sharma <SANDEEP.SHARMA9@adani.com>
Date Wed 12/24/2025 11:13 AM
To HPSPCB RO Bilaspur <pcbrobilaspur2@gmail.com>
Cc Mahaveer Singh Bolia <MAHAVEERSINGH.BOLIA@adani.com>; Mayurkumar Dhokia <mayur.dhokia@adani.com>; Durganath Khaware <durganath.khaware@adani.com>; Kameshwar Sharma <kameshwar.sharma@adani.com>

Dear Sir,

We wish to bring to your kind notice that an incident of fugitive emissions that occurred yesterday morning, was within the fine coal transport and preheater section. Upon investigation by the Central Control Room Operator (CCRO), it was determined that the coal transfer FK pump seal got damaged, which caused leakage and fugitive dust emission. As the coal is abrasive in nature, so it is bound to the associated wear & tear. Subsequently, the FK Pump was stopped by the CCRO after getting feedback from the site.

The issue was promptly reported by the CCR Operator to the Maintenance Team. The Maintenance Team immediately visited the site to ascertain the root cause of the seal failure. Further in consequence to this leakage from coal transferring pump, the desired quantity of the coal could not be fed to the fine coal bin hopper and resulted into Kiln firing process disturbance. This disturbance led to the Cooler ESP malfunctioning, leading to the visible emissions for a couple of minutes.

After rectification and change of seal, dust free transfer was started and Kiln process got stabilized with optimum fuel feed.
Subsequently, ESP also got stabilized with no visible emissions.

The above is for your good self's information please.

Thanks & Regards,
Sandeep Sharma

Sandeep Sharma
Dy. General Manager - EECC,
Gagal Cement Works, ACC Limited,
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Himachal Pradesh.
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sandeep.sharma9@adani.com
www.adani.com

adani
Cement

GCW/ENV/JA/01/2026 22nd January 2026

To,
The Regional Officer,
H.P. State Pollution Control Board,
Near HPPWD Rest House, Dhoira
Bilaspur-174001

Subject: - Regarding Complaint of Fugitive emission.

Sir,

This is in reference to your office letter no. PCB/RO/BLP/(4) ACC Ltd./Vol-XII/2025– 2052 dated 22/01/2026, and the subject matter above. We would like to inform your good self that due to the power failure from the HPSEBL 132 kV Kangoo Grid, both the Kiln of Unit I & Unit II was tripped at 12.10 PM. The bag house of both the Kilns tripped along with the Kiln and entire circuit including preheater got positive, resulting into the uncontrollable fugitive emissions. We would like to reiterate that during the sudden grid failures we do not have any control on the plant during such situations.
The situation got controlled and dust free after a couple of minutes. Thereafter, power resumed, and Kilns were started. The feed was taken and now the Kilns are under stabilization.

Latest plant pictures are attached herewith for your information please.

We assure your good self of our commitment to environment protection/conservation of environment as we are firm believer of sustainable development. This is for the sake of information & record please. Kindly acknowledge receipt of the same.

Thanking You,
Yours Faithfully,

For A C C Limited.

Boolia

Chief Plant Manager
Gagal Cement Works

Encl: - As above

ACC Limited
Gagal Cement Works
VPO Barmana, Tehsil Sadar
Distt. Bilaspur 174 013
Himachal Pradesh, India

www.acclimited.com

CIN: L26940MH1936PLC002515

Registered Office: Cement House, 121, Maharshi Karve Road, Mumbai 400 020, Maharashtra, India

INDIAN INSTITUTE OF TECHNOLOGY ROPAR
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DEPARTMENT OF CIVIL ENGINEERING
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नंगल मार्ग, रुपनगर, पंजाब, भारत – 140001 Nangal Road, Rupnagar, Punjab, India -140001
Ph.: +91-1881-232114, Email: idhada@iitrpr.ac.in

Task Completed

Date **21.01.2026**

The road dust has been sieved (Fig 1) and the fraction collected <75µm,75-150µm, 150-300µm,300-600 µm sieve and over 600 µm sieves has been collected and crushed into smaller fractions for further XRF analysis.

Fig 1: Sieve analysis of samples

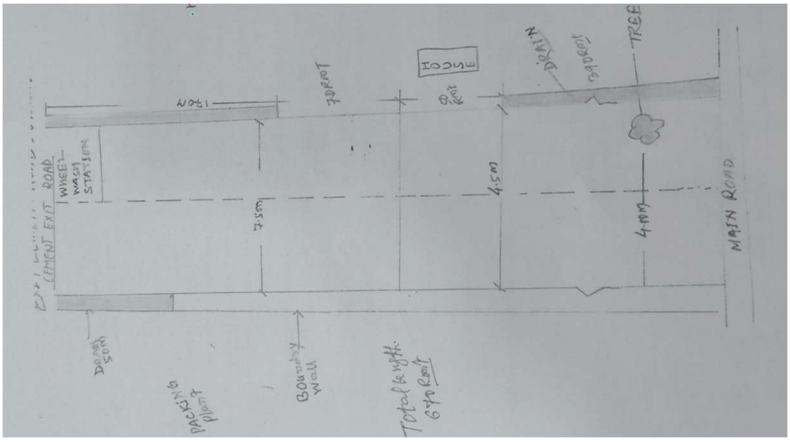

Fig 2: Road width and length as supplied by the ACC plant

Total road length = 680m, Sample collected from1mx3m patch.

1287 The samples are analyzed in an XRF analyzer. The results are given below in Fig 3.

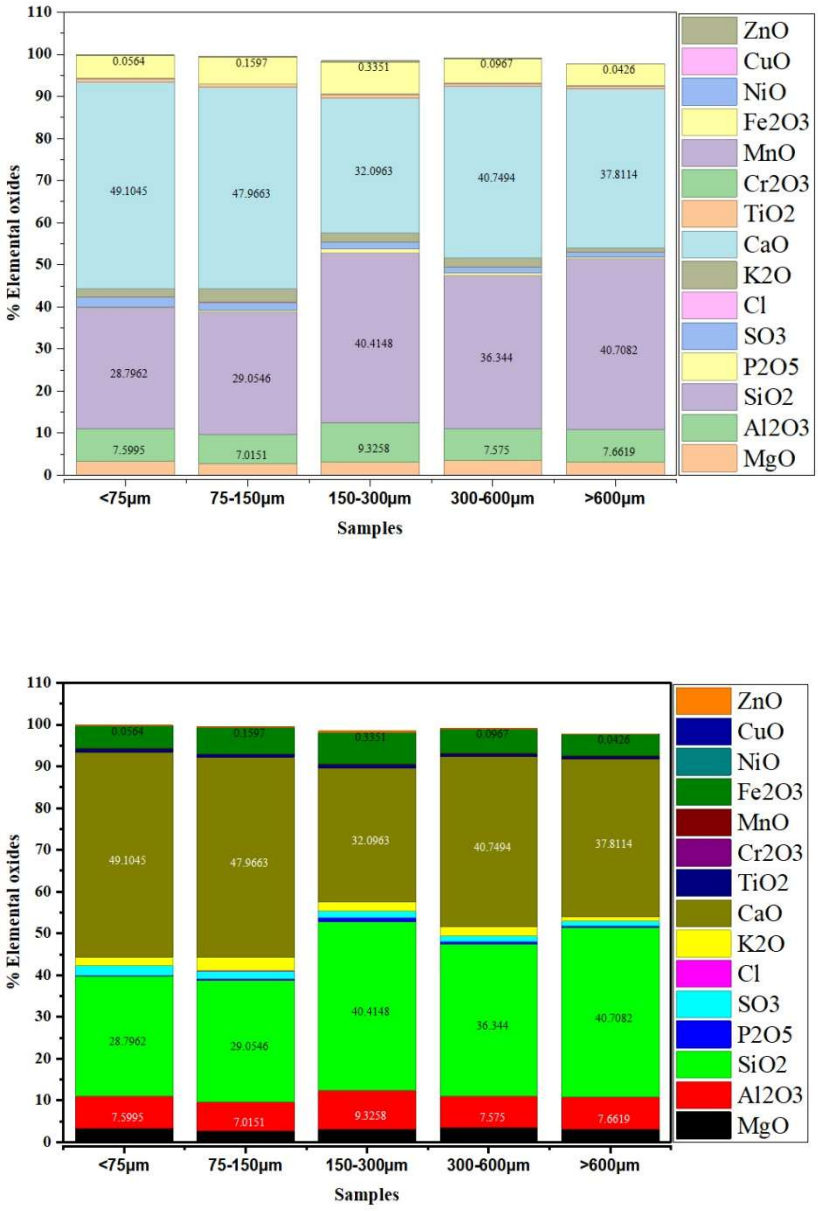

Fig 3: XRF analysis of road dust samples

- **The composition indicates a heterogeneous material. On average, 40% is CaO and 35% Al_2O_3 shows a mix of limestone-based dust along with cementitious product.**

Indramani Dhada

Experts Signature
Dr. Indramani Dhada
IIT Ropar