

Ref. ACH/EMD/F-13/05/2024

Dated: 22/05/2024

Regional Office (NCZ),25
MoEF & CC,
Subhash Road,
Dehradun- 248001

Sub.: Expansion of Cement Plant (2.0 MTPA to 2.6 MTPA Clinker) at village Suli, Tehsil Arki, Darlaghat, District Solan, Himachal Pradesh by M/s Ambuja Cements Ltd. – Environmental clearance reg.

Ref.: Environmental Clearance Order No. J-11011/792/2007-IA II (I) dated 29/02/2008.

Dear Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of Oct – 2023 – March - 2024) with supporting relevant/ready reference photographs, annexure and tables of Environmental Clearance Order No. J-11011/792/2007-IA II (I) dated 29/02/2008 to your kind good self in a systematic context, please.

Thanking you,

Yours Faithfully,
For **Ambuja Cements Ltd.-Unit Suli**

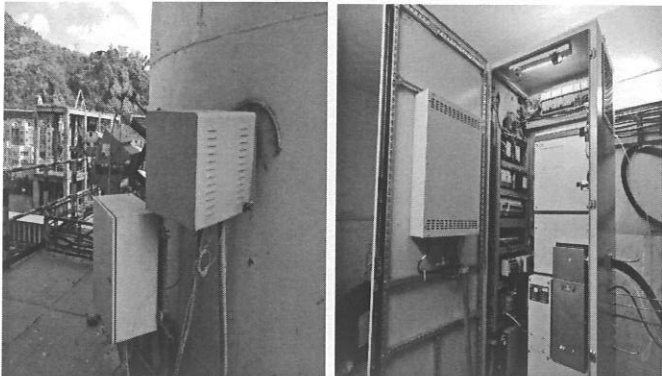
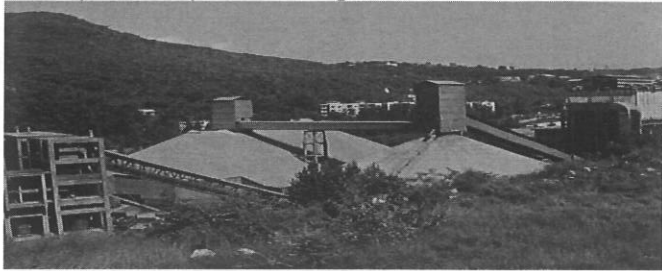

(Hem Raj Sharma)
EMD

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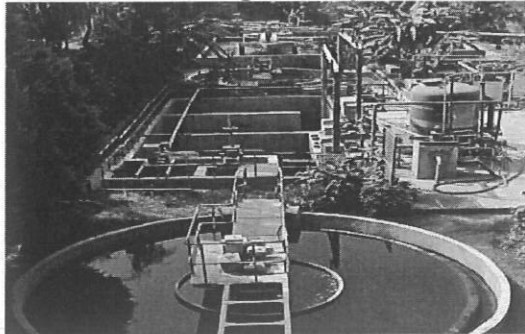
- 1) Regional Officer, HP State Pollution Control Board, Parwanoo ,Dist. Solan, HP
- 2) Regional CPCB, Lucknow, UP.

Encl.: (i) As above.
(ii) Soft copy through mail.


**Compliance of Conditions laid down by MoEF for Expansion of Cement Plant
(2.0 MTPA to 2.6 MTPA Clinker) at Village Suli Oct 2023 to March 2024**

A. SPECIFIC CONDITIONS		
Sl. No.	Condition	Compliance Status
i	Continuous stack monitoring facilities for all stacks and adequate air pollution control systems e.g. electrostatic precipitators (ESP) to clinker cooler and cement mill; glass bag house to raw mill and kiln; bag filters to raw mill hoppers, blending silo/kiln feed, clinker storage, coal mill system, packing plant, transfer points etc. shall be provided to keep emissions levels below 100 mg/Nm ³ . Storage of raw materials viz. limestone, coal, clinker shall be in closed roof sheds covered stockpiles. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.	<p>a.) CEMS has been installed at GBH attached to Raw Mill and Kiln section. CPM have been installed at Clinker Cooler, cement Mill 2 & 3 and Coal mill.</p>  <p align="center">CEMS installed at Kiln/Raw Meal stack</p> <p>b.) Stack emissions are regularly monitored and the results are submitted to HP SPCB on monthly basis and to the Regional Office of MoEF at Chandigarh on six monthly basis.</p> <p>c.) Each and every material transfer point is equipped with a bag filter.</p> <p>d.) All the raw materials are stored in covered area.</p> <p>e.) Water sprinkling arrangements have been made wherever required.</p> <p>Monthly stack monitoring data is enclosed as Table – I</p>
ii	The company shall install dust collectors to control dust emissions from the transfer points, loading and unloading areas. A closed clinker system shall be adopted to control fugitive emissions. Dust collection system and water spray system shall be provided in raw material stock yard and cement bag loading areas to control fugitive emissions.	<p>a.) Each and every material transfer point is equipped with a bag filter to control the dust emissions.</p> <p>b.) Clinker is stored in completely covered stockpiles to prevent fugitive dust emission.</p>  <p align="center">Covered clinker stockpiles</p>
iii	Secondary fugitive emissions shall be	Guidelines / Code of practice issued by the

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	controlled within the prescribed limits and regularly monitored. Guidelines / Code of practice issued by the CPCB in this regard shall be followed.	CPCB in this regard is followed to control secondary fugitive emissions.
iv	Total existing water requirement from Pazeena Khud (a tributary of River Sutluj) is 1,200m ³ /day and shall not exceed the limit even after expansion. Close circuit system shall be adopted for cooling. No wastewater shall be discharged from the process outside the premises and all the treated wastewater from Sewage Water Reclamation Plant (SWRP) shall be recycled and reused in the cement manufacturing process and/or for dust suppression, green belt development and other plant related activities etc. 'Zero' discharge shall be adopted. SWRP shall be further augmented as per the requirement of the expansion project.	Being the "Dry Process" of cement manufacturing, no waste water is generated from the process. However the domestic waste water generated from residential facilities as well as from the offices is being treated at SWRP. Treated water thus generated is reused for greenery development, dust suppression, cooling makeup etc. and the biological sludge generated is used for greenery development. 
		Pl. refer table – II
v	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment. Due to enhanced movement of trucks due to expansion of project and other cement industries in the same region, the industry may consider the feasibility of setting up of the conveyor belt transportation system for the raw materials as well as final product to decongest the traffic in the hill region in collaboration with the Central Road Research Institute, New Delhi.	a.) All possible efforts are being made to reduce impact of the transport of the raw materials and end products on the surrounding environment. All the trucks used in transportation of raw materials semi finished/finished products are covered with tarpaulin. New multi axel trucks have been introduced for transportation of the raw materials semi finished/finished products.
vi	All the Cement Dust collected from pollution Control devices shall be 100% recycled and reused in the process and used for cement manufacturing. Treated STP Sludge from SWRP shall be used for green belt development.	All the particulate matter collected through air pollution control devices is automatically recycled in the process. The biological sludge generated is used for greenery development.
vii	All the fly ash shall be utilized as per	All the fly ash is being utilized as per flyash


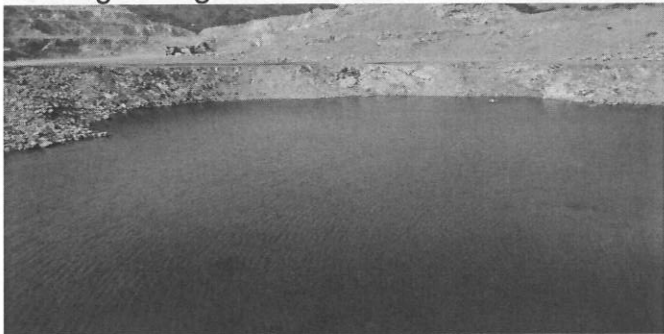
**Compliance of Conditions laid down by MoEF for Expansion of Cement Plant
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	flyash Notification, 1999 subsequently as amended in 2003.	Notification no. SO 2623 (E) dated 6 th November 2008.
viii	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly.	High calorific hazardous waste of Shiwalik Solid Waste , is being used in the cement kiln and necessary provisions have already provided.
ix	Green belt shall be developed in and around the expansion project in atleast 25 % of the area as per the CPCB guidelines in consultation with local DFO. Plantation shall also be done along the road side between Ropar & Darlaghat in collaboration with the State forest department due to regular plying of trucks carrying flyash and cement.	<p>a) Plantation is an integral part of our activity.</p>  <p>Road side plantation along NH-88 Green Belt Development report has been submitted by HFRI on dated 10th November 2017.</p>
x	The environmental clearance is subject to obtaining clearance under the wild life (Protection) Act, 1972 from the competent authority. Conservation plan for the schedule I Fauna shall be prepared in consultation with Chief Wild life warden, Government of H.P. and necessary funds for implementation of the same shall be allocated.	Wildlife conservation plans have been prepared in consultation with State Forest & Wildlife Department and the same are authenticated by PCCF (Wildlife) vide letter dated WL(Misc)-73/Mining/VI/8295 dated 14/01/2014 and WL(Misc)-73/Mining/VI/7473 dated 24/12/2013. The allocated necessary funds for the purpose have already earmarked in the conservation plan and Rs. 9710000/- (Rupees ninety seven lakh ten thousand only) have already been submitted for the wildlife conservation activities vide letter no. ACL/CPRP.AFFAIRS/WL CESS/2015 dated 17/01/2015. Copies of wildlife conservation plan including their action plans have been forwarded vide letter no. ACH/EMD/WLCP/11/2015 dated 23/11/2015. Rs. 47.90 lacs has been submitted as part of commitment in WLCP to State Wildlife Forest Deptt. through CAMPA Account (RTGS) on 18/03/2016 for year 2016. Recently we have submitted Rs. 10 lacs to State Wildlife Forest Deptt. through CAMPA Account. Total amount submitted Rs. 1.55 crores for WLCPs.
xi	The environmental clearance is subject to the final orders of the Hon ^{ble} Supreme Court of India in the	Final orders of the Hon ^{ble} Supreme Court of India Shall be complied as may be applicable to the project.



**Compliance of Conditions laid down by MoEF for Expansion of Cement Plant
(2.0 MTPA to 2.6 MTPA Clinker) at Village Suli Oct 2023 to March 2024**

	matters of Goa Foundation vs. UOI in Civil Writ Petition No. 460 of 2004 as may be applicable to this project.	
B. GENERAL CONDITIONS		
i	The project authority must adhere to the stipulations made by H.P. State Pollution Control Board (HP SPCB) and State government.	All the stipulations made by H.P. State Pollution Control Board (HP SPCB) and State government shall be adhered.
ii	No further expansion or modification of the plant shall be carried out without prior approval of this ministry.	Noted and complied.
iii	The gaseous and particulate matter emission from various units should conform to the standards prescribed by the State Pollution Control Board. At no time, the particulate emissions from the cement plant and captive power plant (CPP) shall exceed 100 mg/Nm ³ . Inter locking facility shall be provided between pollution control equipment and the process operation so that in the event of pollution control equipment not working, respective unit(s) is shut down automatically.	Emissions from the Cement Plant is being maintained well below the limits prescribed by State Pollution Control Board. Inter locking facility has been provided between pollution control equipment and the process operation so that in the event of pollution control equipment not working, respective unit(s) shut down automatically. In addition to this we also conduct third party stack monitoring by SGS India Ltd or VIMTA Lab.
iv	Ambient air quality including ambient noise levels shall be monitored at different locations including fence of sanctuary and must not exceed the standard stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emission shall be carried out regularly in consultation with HP SPCB and report submitted to the Board quarterly and to the Ministry's Regional Office at Chandigarh half yearly. Continuous stack monitoring system shall be installed.	Monitoring is being carried out on regular basis. Ambient Air Quality and Stack monitoring is carried out and the results are submitted to the State Pollution Control Board on monthly basis and to the Ministry's Regional Office at Dehradun half yearly. Continuous stack monitoring systems are installed at six stacks i.e. GBH, Cooler ESP, Cement Mill 1, 2 & 3 ESP/Bag Filter, Coal Mill and E-Mill Bag Filter. Ambient air quality including ambient noise levels at sanctuary area is being carried out.
v	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The	No industrial waste water is being generated from the production process. However waste water generated from offices and residential facilities is being treated at Sewage Treatment Plant and the treated water thus generated is used for greenery development and process cooling makeup etc.

**Compliance of Conditions laid down by MoEF for Expansion of Cement Plant
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	treated waste water shall be utilized for plantation purpose.	
vi	The over all noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (Day time) and 70 dBA (Night time).	<p>a.) All the precautionary measures have been taken to keep the noise levels within the prescribed limits.</p> <p>b.) Physical & biological barriers have been provided at suitable/available locations.</p>
vii	Proper house keeping and adequate occupation health programmes must be taken up. All the persons working in the sensitive area shall wear protective covers. Occupation health surveillance programme shall be done on regular basis and records maintained. The program must include lung function and sputum analysis test once in six months.	<p>Proper house keeping and adequate occupation health programmes are taken up. All the persons working in the sensitive area have been provided with the required Personal Protective Equipments (PPEs). Regular checkup of the employees is being done and records are maintained.</p>  <p align="center">Road sweeping machine</p>
viii	The company must harvest surface as well as rain water from the roof top of the buildings proposed in the expansion projects and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	<p>Suitable drainage systems are provided to recharge the ground water.</p>  <p align="center">Rain water harvesting</p>
ix	The company shall follow all the recommendations mentioned in the	As per the recommendations mentioned in the Charter on Corporate Responsibility for

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	Charter on Corporate Responsibility for Environmental Protection (CREP) especially all the major stacks shall be provided with continuous emission monitoring for particulate matter.	Environmental Protection (CREP), six stacks have been provided with continuous emission monitoring for particulate matter.
x	The company shall under take eco development measures including community welfare measures in the project area.	<p>Ambuja Cement Foundation has been set up for taking care of the community development / welfare measures in the project area.</p>  <p align="center">Distribution of plants to community</p>
xi	The project proponent shall also comply with all the environmental protection measures and safe guards recommended in the EIA/EMP.	All the environmental protection measures and safe guards recommended in the EIA/EMP are being considered for its implementations there of.
xii	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of Senior Executive.	<p>A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions have been set up under the control of Senior Executive.</p>  <p align="center">Water analysis</p>
xiii	As proposed, the project authorities	All the conditions stipulated herein the clearance

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	shall earmark Rs.2.5 Crores towards environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment & Forest as well as the State Government. An implementation schedule shall be submitted to the Regional Office at Chandigarh to implement all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	letter as well as by the State Government are being implied thereof.
xiv	The Regional Office of this Ministry at Chandigarh/Central Pollution Control Board/HP SPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	We are facilitating the officials from the Regional Offices of this Ministry at Dehradun/Central Pollution Control Board/HP SPCB to monitor the stipulated conditions. A six monthly compliance report is already being submitted to the Regional office of Ministry at Dehradun regular basis.
xv	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by concerned authorities and date of commencing the land development work.	There was no new land development. The date of financial closure shall be informed to the Regional office as well as Ministry in due course of time.
xvi	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the HP SPCB and may also be seen at web site of the Ministry of Environment & Forest at http://envfor.nic.in . This should be advertised within seven days from the date of issue of clearance letter at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the regional office.	It has been advertised in two local news papers that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the HP SPCB and may also be seen at web site of the Ministry of Environment & Forest at http://envfor.nic.in . A copy of the same has already been submitted to the regional office at Dehradun.

Table - I

Weekly Average of Stack Monitoring Results

(FROM October 2023 - March 2024)

Average PM Value in mg./Nm3

MONTHS	Glass Bag House	Cooler ESP	Cement Mill ESP I	Coal Mill B/F	E-Mill B/F	Main Crusher B/F
<u>Oct-23</u>	*	*	9.67	*	*	*
	*	*	13.1	*	*	*
	10.68	13.4	16.15	5.1	4.1	8.27
	11.4	15.5	7.63	4.7	2.5	14.5
<u>Nov-23</u>	16.7	21.6	8.8	8.4	5.0	19.8
	11.6	25.2	5.7	14.6	4.3	12.5
	12.3	19.7	5.6	15.1	6.4	15.4
	14.1	18.7	8.5	13.6	4.1	18.7
<u>Dec-23</u>	22.1	22.2	9.4	21.0	10.4	20.2
	23.9	16.4	5.7	16.5	6.8	21.1
	20.6	19.7	10.7	15.1	7.6	25.3
	17.8	20.6	8.5	20.4	6.6	22.1
<u>Jan-24</u>	9.8	22.8	18.9	12.6	8.6	20.7
	10.3	26.2	15.7	17.5	10.8	18.9
	13.7	19.2	16.0	13.7	9.9	22.4
	8.3	25.1	19.9	14.4	7.3	24.1
<u>Feb-24</u>	7.0	22.8	13.0	12.6	8.6	19.0
	6.9	24.7	10.8	15.7	8.1	18.9
	7.6	19.2	9.8	13.7	9.9	22.4
	8.1	25.1	10.2	14.4	7.3	20.9
<u>Mar-24</u>	8.0	20.8	11.6	14.3	4.0	17.9
	5.5	13.4	12.4	11.1	5.5	21.0
	4.1	17.3	13.4	12.1	6.8	25.2
	6.3	15.1	10.8	13.6	4.8	20.3

Table - 2

Inlet and Outlet Sewage Water Characteristics (Monthly Average)
(From Oct 2023 to March 2024)

MONTHS	INLET			OUTLET		
	pH	BOD	TSS	pH	BOD	TSS
Oct-23	8.10	253.00	353.00	7.5	11.00	12.00
Nov-23	8.10	254.00	354.00	7.5	12.00	11.00
Dec-23	8.10	253.00	352.00	7.4	12.00	10.50
Jan-24	8.10	254.00	354.00	7.50	12.00	10.67
Feb-24	8.10	254.00	352.00	7.40	11.00	11.00
Mar-24	8.10	253.00	351.00	7.46	11.00	11.33

Except pH, all parameters are in mg/lit.

Table - 3

AMBIENT AIR QUALITY IN SURROUNDING VILLAGES
(FROM October 2023 TO March 2024)

Date	Village	Concentration (ug/m3)	
		PM2.5	PM10
		IS-5182-p-23	IS-5182-p-23
07-10-2023	Suli	39.6	52.83
14-10-2023	Bahan	29.4	48.42
21-10-2023	Saryanj	11.8	34.66
28-10-2023	Parnoo	28.9	41.11
04-11-2023	Kangri	12.5	35.5
11-11-2023	Dhundand	24.4	54.6
18-11-2023	Khali	15.6	35.7
25-11-2023	Chamla	45.8	55.9
08-12-2023	Saryanj	20.4	44.5
15-12-2023	Badog	26.8	55.2
22-12-2023	Brali	30.2	52.4
29-12-2023	Dhamog	32.4	53.3
03-01-2024	Nauni	23.0	46
10-01-2024	Budmoo	21.0	34
17-01-2024	Kakda	33.0	31
24-01-2024	Gyana	17.0	42
05-02-2024	Suli	37.0	48.5
12-02-2024	Bahan	25.5	46.2
19-02-2024	Saryanj	17.3	35.6
26-02-2024	Parnoo	31.1	42.7
06-03-2024	Damlana	12.5	36.5
13-03-2024	Saryanj	15.6	42.1
20-03-2024	Sangoi	11.3	34.2
27-03-2024	Dhamog	10.2	40.2

Monthly Average of Ambient Air Quality Monitoring Results Suli Plant
(PM 10, PM 2.5, SO2 and NO2)

Table IV

MONTH	Khata				Pacheaur				Batedh			
	PM 2.5 µg/m3	PM 10 µg/m3	SO2 µg/m3	NO2 µg/m3	PM 2.5 µg/m3	PM 10 µg/m3	SO2 µg/m3	NO2 µg/m3	PM 2.5 µg/m3	PM 10 µg/m3	SO2 µg/m3	NO2 µg/m3
Oct-23	33.49	54.28	5.94	11.83	31.15	53.25	5.51	11.06	33.39	51.14	7.24	13.90
Nov-23	34.01	53.90	5.64	9.81	30.99	48.29	4.49	8.36	31.77	46.80	5.65	9.36
Dec-23	32.90	47.15	5.59	16.44	33.74	52.71	4.61	11.83	32.74	48.88	5.56	13.43
Jan-24	33.17	44.54	5.59	9.83	34.70	52.04	4.60	8.44	30.54	48.38	5.62	9.44
Feb-24	32.10	51.81	5.51	9.62	32.98	52.06	4.81	8.61	34.76	53.10	5.13	9.70
Mar-24	32.68	50.88	5.53	9.99	28.39	49.18	4.57	8.80	33.96	54.21	5.76	9.36

Monthly Average of Ambient Air Quality Monitoring Results Suli Plant
(Lead, Nickel, Arsenic, CO)

MONTH	Khata				Pacheaur				Batedh			
	Lead µg/m3	Nickel ng/m3	Arsenic ng/m ³	CO mg/m ³	Lead µg/m3	Nickel ng/m3	Arsenic ng/m ³	CO mg/m ³	Lead µg/m3	Nickel ng/m3	Arsenic ng/m ³	CO mg/m ³
Oct-23	ND	ND	ND	0.55	ND	ND	ND	0.47	ND	ND	ND	0.52
Nov-23	ND	ND	ND	0.62	ND	ND	ND	0.45	ND	ND	ND	0.55
Dec-23	ND	ND	ND	0.52	ND	ND	ND	0.48	ND	ND	ND	0.56
Jan-24	ND	ND	ND	0.52	ND	ND	ND	0.42	ND	ND	ND	0.48
Feb-24	ND	ND	ND	0.5	ND	ND	ND	0.44	ND	ND	ND	0.46
Mar-24	ND	ND	ND	0.55	ND	ND	ND	0.47	ND	ND	ND	0.52

Table - 5

MONTHLY NOISE MONITORING RESULTS (INSIDE PLANT) AT AMBUJA CEMENTS LTD. - UNIT HIMACHAL
(From October 2023 to March 2024)

MONITORING LOCATION	Oct-23		Nov-23		Dec-23		Jan-24		Feb-24		Mar-24	
	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
TIME OFFICE												
With Vehicular Movement	76.1	74.6	71.6	70.3	72.2	70.1	78.4	78.1	70.6	69.8	76.7	72.5
Without Vehicular Movement	64.2	58.5	62.9	61.6	61.5	60.2	61.7	57.5	58.2	56.5	62.2	58.1
Coal Crusher	71.9	70.1	65.7	64.2	66.1	63.5	67.2	62.1	61.7	60.3	71.3	68.5
GBH (Near MPSS)	73.8	72.6	73.2	70.5	71.2	70.1	71.7	70.9	80.4	76.1	75.5	73.4
Raw Mill	83.7	81.9	84.7	83.9	83.6	82.8	84.3	83.7	84.3	82.9	83.3	83.1
Cement Mill Area (Out Side)	78.5	77.9	78.5	76.4	76.5	74.4	79.8	78.3	81.1	80.4	78.6	79.5
In front of CCR	76.2	73.9	62.3	59.1	60.3	58.3	70.1	69.5	78.5	76.2	76.9	75.4
Inside Compressor House1 (Near MPSS)	84.8	85.5	86.6	85.2	84.7	82.6	85.9	84.1	86.3	85.9	84.8	85.1
Outside Compressor House1 (Near MPSS)	75.7	74.1	78.3	77.9	77.2	75.7	76.7	73.8	75.7	74.4	75.1	76.3
Inside Compressor House2 (Near Cement Mill)	85.3	83.5	83.8	83.1	82.1	81.2	87.5	86.3	85.1	84.7	85.7	83.4
Outside Compressor House2 (Near Cement Mill)	73.1	72.5	74.1	72.6	75.2	72.9	78.7	77.4	77.4	76.3	73.8	74.2
Blower House (Near Coal Mill)	84.5	82.7	84.7	83.8	83.6	81.8	86.5	85.1	84.9	83.2	84.3	82.4
Blower House (Below Blending Silo)	82.1	81.3	83.1	82.5	84.2	82.6	83.4	82.3	83.6	82.5	80.8	80.3
Blower House (Below Cement Silo 1)	83.1	80.6	82.5	81.7	81.5	80.2	82.8	81.7	83.2	82.7	83.4	80.5
Blower House (Below Cement Silo 2)	84.5	82.8	83.4	82.9	82.4	81.3	83.5	82.9	84.7	83.5	82.8	84.3
MAIN GATE												
With Vehicular Movement	82.1	79.1	80.6	77.8	81.5	76.5	77.5	76.7	79.1	78.8	82.1	81.1
Without Vehicular Movement	57.1	55.8	65.4	62.3	64.2	61.2	60.2	58.4	58.4	57.2	57.1	54.9

Noise Level Unit - dB(A)



H.P.STATE POLLUTION CONTROL BOARD
FORM X
REPORT BY STATE BOARD ANALYST
 (See Rule 26)

Report No: 65821/W-10823

12/01/2024

I hereby certify that I **Rama Kant Awasthi**, SO, State Board Analyst duly appointed under sub-section (3) of section 53 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) received on **29/12/2023** from **Anurag Raina, JEE**, HP State Pollution Control Board **RO Parwanoo** a **Grab** sample of **Final Outlet of STP of Ambuja Cements Limited (Suli Plant), Cement Village Suli, P.O. Darlaghat, Tehsil Arki, District Solan, H.P. 171102, Arki Distt. Solan Parwanoo, H.P. 171102** on dated **28/12/2023** for analysis. The sample was in a condition fit for analysis reported below:

I further certify that I have analyzed the aforementioned sample on **29/12/2023** to **12/01/2024** and declare the result of analysis is to be as follows :-

Method of analysis					
IS- 2488(I-V), IS-3025(Part 44): 1933, 'Standard method for examination of water', 23rd edition prepared and published jointly by:-					
1. American Public Health Association					
2. American Water Works Association					
3. Water Pollution Control Federation					
SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	pH	7.43		6.5-9.0	Within Permissible Limit
2	COD	44.0	mg/L	250	Within Permissible Limit
3	BOD	5.2	mg/L	30	Within Permissible Limit
4	TSS	15.0	mg/L	99	Within Permissible Limit
5	Oil and Grease	0.4	mg/L	10	Within Permissible Limit

The condition of the seals, fastening and container on receipt was as: sealed as **HPPCB262**

Signed this on **12/01/2024**

Remarks of Lab Head:

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Rama Kant Awasthi, SO
 (State Board Analyst)
 CL Parwanoo

Annexure 2**Environmental Expenditure – SULI (Oct 2023 – March, 2024)**

Sr. No.	Environmental Expenditure Area	Capital/Recurring	Amount(Rs)
1	Air pollution control equipments maintenance, STP maintenance, Analyzers and other monitoring equipments maintenance.	Recurring	1140482
2	Monitoring and analysis of environmental parameters, studies, purchase of small new equipments ,plantation, fees, salaries, Plant housekeeping etc.	Recurring	4316753
3	Air pollution control equipments running expenses	Recurring	35378284
4	Mines – construction of check dams/ check filters, Toe walls etc, Water spraying on haul roads, use of IKON, plantation, soil conservation works, water harvesting etc.	Recurring	1558252
5	Community development works	Recurring	31928034
		Capital	1200040

Total Capital Cost: - Rs 1200040/- (Twelve Lakh Fourty)

Total Recurring Cost: - Rs 74321805/- (Seven Crore Fourty Three Twenty One Thousand Eight Hundred Five)

Total Cost Recurring + Capital Cost: - Rs 75521845/- (Seven Crore Fifty Five Lakh Twenty One Thousand Eight Hundred Fourty Five)

Suli Plant Renewal of 'Consent to Operate' u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981.

Consent valid up to: 31/03/2024

TERMS AND CONDITIONS

A. SPECIFIC CONDITIONS

Sr. No.	Consent conditions	Remarks/Status
1.	This 'Renewal of Consent to Operate' is only for the purpose and under the provision of Water Act, 1974 and Air Act, 1981 as the case may be, and will not construed as substitute for mandatory clearances required for the project under any other law/regulation/direction/order and the applicant shall obtain any such mandatory clearance before taking any steps to establish industry/ industrial plant, operation or process or any treatment and disposal system or an extension or addition thereto.	We have obtained all the necessary permissions.
2.	Nothing in this Consent shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected to under this or any other Act.	Noted.
3.	The unit shall apply for further renewal/extension in the validity of the Consent, before the expiry of this 'Renewal of Consent to Operate'.	We will apply for consent before the expiry of this consent.
4.	<p>i) The unit shall ensure compliance of Waste Management Rules i.e. Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016/ Plastic Waste Management Rules, 2016/ E-Waste (Management) Rules, 2016/Construction & Demolition Waste Management Rules, 2016 and Manufacture, Storage & Import of Hazardous Chemical Rules, 1989 and provisions made there-under, as amended from time to time, without any adverse effect on the environment, in any manner (As Applicable).</p> <p>ii) The unit shall made provisions for the compliance Solid Waste Management Rules, 2016 and provisions made there-under and unit shall also not practice burning activity of solid waste/waste generated from fuel within/outside premises, to avoid public nuisance.</p>	<p>We are complying the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016/ Plastic Waste Management Rules, 2016/ E-Waste (Management) Rules, 2016/Construction & Demolition Waste Management Rules, 2016.</p> <p>The annual return for the same is being submitted before 30th June every year.</p>
5.	<p>This 'Renewal of Consent to Operate' is for:-</p> <p>i) The emissions from all sources conforming to the norms as prescribed in Schedule-I of Environment (Protection) Rules, 1986 as amended from time to time.</p> <p>ii) Noise and Ambient Air Quality shall be maintained within Ambient Air Quality Standards for noise as specified in Schedule-III of Environment (Protection) Rules, 1986 and Noise Pollution (Regulation and Control) Rules, 2000, as</p>	<p>(i) Noted.</p> <p>(ii) Noise and Ambient Air Quality is being maintained well below the prescribed standards. The results of the same are being submitted</p>

	<p>amended from time to time.</p> <p>iii) The effluent (Domestic/Industrial) shall conform to the limits as prescribed in Schedule-I or Schedule-VI or Industry specific standards of Environment (Protection) Rules, 1986 as amended from time to time.</p> <p>iv) Sewage and sludge generated from the unit to be disposed-off in a properly designed septic tank system/Sewage Treatment Plant/ Public Sewer System (as applicable).</p>	<p>in monthly report.</p> <p>(iii) Due to dry process no effluent is being generated from the process. The domestic waste generated is treated in STP and the recycled water is used for plant cooling and for horticulture use.</p> <p>(iv) Sewage and sludge generated from STP is used as manure for plantation.</p>
6.	The unit shall ensure regular operation and maintenance of Pollution Control Devices to achieve the norms as prescribed in Environment (Protection) Act, 1986 and the achievement of the adequacy and efficiency of the effluent treatment plant/pollution control devices/re- circulation system installed shall be the entire responsibility of the unit.	Regular operation and maintenance of APCDs is being carried out to keep the emission level within the prescribed limits. Due to dry process no effluent is being generated from the process.
7.	The unit shall ensure regular operation and maintenance of separate energy meter/flow meter for running pollution control devices and shall also maintain record with respect to operation of air pollution control device/effluent treatment plant, so as to satisfy the Board regarding the regular operation of air pollution control device/effluent treatment plant and shall maintain log book for the monthly reading / record.	Separate energy meter has been installed and records are maintained.

CONDITIONS UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974.

8.	<p>a) The unit shall maintain the record regarding the daily water consumption as per flow meter installed.</p> <p>b) The unit shall ensure that terminal manhole(s) at the end of each collection system and a manhole upstream of final outlet (s) out of the premises of the industry for measurement of flow and for taking samples.</p> <p>c) The pollution control devices shall be interlocked with the manufacturing process of the industry (if applicable) and the authorized outlet and mode of disposal shall not be changed without the prior written permission of the Board. Unit shall not use any unauthorized outlet(s) for discharging effluents from its premises.</p> <p>d) Solids, sludge, filter backwash or other pollutant removed from or resulting from treatment or control of waste waters shall be disposed-off in scientific manner.</p>	<p>a) Water consumption records are maintained.</p> <p>b) In Sewage water reclamation plant, Manholes have been provided at collection system for flow measurement and taking samples. Water meter has been installed at the final outlet.</p> <p>c) Noted.</p> <p>d) We are maintaining zero discharge. Sludge generated from STP is used as manure for horticulture activities.</p>
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CONDITIONS UNDER AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981.

9.	<p>a) The unit shall ensure port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets as per the specifications.</p> <p>b) The unit shall discharge air emissions through a stack of minimum height as specified in 'Consent to Establish' and shall follow standards laid down from time to time.</p> <p>c) For industrial furnaces and kilns, the criteria for selection of stack height would be based on fuel used for the corresponding steam generation & as per specification.</p> <p>d) Unit shall ensure Stack height for diesel generating sets as per specification.</p> <p>e) The unit shall ensure regular operation and maintenance of installed canopy and stack of the D.G sets so as to control the noise & air pollution in order to comply with the provision of notification No GSR-371 E dated 17-5-2002 or direction as issued by MOEF from time to time, under Environment (Protection) Act, 1986.</p>	<p>a) All necessary facilities have been provided for collecting samples.</p> <p>b) Being complied.</p> <p>c) Being complied.</p> <p>d) Being complied.</p> <p>e) We are using D.G. sets as stand by. The noise and air pollution is well within the prescribed limits.</p>
	<p>f) The unit shall ensure disposal of boiler ash/fuel ash through authorized person or within premises in a scientific manner (as the case may be) and shall maintain proper record for the same, if applicable.</p> <p>g) The unit shall ensure regular operation and maintenance of air pollution control arrangements for control emission from its coal/fuel handling area and from handling, transportation and processing of raw material & product of the industry.</p>	<p>f) NA</p> <p>g) All the raw materials including fuel are being stored in closed sheds and also transported in trucks covered with tarpaulin.</p>
10.	The unit shall ensure valid and approved on-site and off-site emergency plan, approved by the Chief Inspector of Factories, Himachal Pradesh (If applicable).	On-site and off-site emergency plans are approved by the Chief Inspector of Factories, HP.
11.	The unit shall ensure regular operation and maintenance of real time online monitoring equipment's and provisions for the un-interrupted transfer of data as per guidelines of CPCB (if applicable).	AMC has been given to the suppliers of real time online monitoring equipments and the data is being submitted to CPCB without interruption.
12.	The unit shall provide adequate arrangements for fighting the accidental leakages/ discharge of any air pollutant/gas/liquids from the vessels, mechanical equipment's etc. which are likely to cause environmental pollution.	As per emergency preparedness plan we have provided adequate arrangements
13.	The unit shall plant & maintain minimum three layer of trees so far possible as per plantation guide (may be download from the website http://hppcb.nic.in/plantationguide.pdf) all along	Plantation is being raised in consultation with HFRI Shimla.

	the boundary of the industrial premises and check air/water/noise pollution at source.	
14.	Any guidelines issued by the Central Government/State Government/MoEF/CPCB/SPCB/any other authority concerned, shall be binding.	Noted.
15.	This 'Renewal of Consent to Operate' is subject to orders on any litigation pending in any Court of Law. Any direction/order issued by any court shall be binding (if any).	Noted
16.	The Board reserves the right to revoke the 'Renewal of Consent to Operate' granted to the industry at any time, in case the industry is found violating the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time.	Noted.
17.	The unit shall comply with any other conditions laid down or directions issued in due course by the Board under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.	Noted.

B. OTHER CONDITIONS

1.	The unit shall comply with the conditions imposed by the MoEF/State Level Environment Impact Assessment Authority/ District Level Environment Impact Assessment Authority in the environmental clearance granted to it as required under EIA notification dated 14-9-06, if applicable.	EC conditions are being complied and reports are submitted to MoEF & CC with a copy marked to HPSPCB on half yearly basis.
2.	The issuance of this consent does not convey any property right in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local Laws or Regulations.	Noted.
3.	Stone Crusher units shall comply with the provisions of guidelines notified by the State Government vide Notification No. STE-E(3)-11/2012, dated 29-05-2014 (If Applicable).	NA
4.	Brick Kiln units shall comply with the provisions of guidelines notified by the MoEF vide Notification No. G.S.R.233.(E), dated-15-03-2018 and by the State Government vide Notification No. STE-E(5)-6/2013, dated-07-03-2014 (If Applicable).	NA
5.	Hydroelectric Projects shall install Online Real Time Monitoring System for the measurement of 15% of minimum discharge in lean season as per orders of Court/Government. The unit shall also ensure provisions for the regular and uninterrupted transfer of data from the real time online monitoring system for 15% of minimum discharge of flow to SPCB, failing which unit shall be liable for action on account of violation of the directions issued by Court/Government/SPCB in this regard (If Applicable).	NA
6.	Unit shall strictly adhere to the capacity approved by the Industries Department/ Department of Tourism & Civil	Noted.

	Aviation/any other concerned Authority (As Applicable).	
7.	The unit shall not cause any nuisance/traffic hazard in vicinity of the area.	Alternate road has been constructed in order to decongest the traffic in the area.
8.	The unit shall ensure that there will not be significant visible dust emissions beyond the property line.	There is no visible dust emission in our unit.
9.	The unit shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991.	Complied.
10.	Unit shall submit all the annual/quarterly returns, as per timeline.	Complied.
11.	The industry shall submit a yearly certificate to the effect that no addition/up-gradation/ modification/ modernization has been carried out during the previous year otherwise the industry shall apply for the varied consent.	An affidavit for no addition/up-gradation/ modification/modernization will be submitted every year.
12.	The unit shall maintain record regarding the operation of effluent treatment plant i.e. record of quantity of chemicals and energy utilized for treatment and sludge generated from treatment so as to satisfy the Board regarding regular and proper operation of pollution control equipment.	Due to dry process there is no ETP. The domestic waste water is being treated in STP.
13.	Any amendments/revisions made by the Board/CPCB/MOEF in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions.	Noted.

C. SPECIAL CONDITIONS

1.	This Consent is subject to validity of Mining lease.	Noted.
2.	This Consent is subject to Fuel Policy to be framed by the Government of HP.	We shall adhere to the fuel policy which is being framed by Govt. of HP.
3.	The Project Proponent shall be liable to clear any past/current liability on account of difference of Consent fees including penalties if detected at any subsequent stage.	Noted
4.	This Consent is subject to guidelines issued by the Moef & CC vide letter No. Q18011/54/2018-CPA, dated-10-09-2018 regarding guidelines for Regulation & Monitoring of Imported Pet-coke.	Being complied.
5.	The Project Proponent shall ensure measure for control of air emission, fugitive emission, trade effluent and noise limit with the prescribed standards.	Dust and Noise emissions are well within the prescribed limits. There is no trade effluent generated.
6.	The Project Proponent shall ensure the storage of hazardous chemical within threshold limit or Consented capacity.	NA
7.	This Consent is subject to final outcome of any order/direction issued by any Court of Law.	Noted.
8.	The Project Proponent shall ensure the compliance of the standards notified vide GSR No. 497 (E), dated-10-05-2016 for the Cement Industry.	The new emission standards notified vide GSR No. 497 (E), dated-10-

		05-2016 for the Cement Industry are being complied.
9.	The Project Proponent shall ensure compliance of conditions imposed in Environmental Clearance and previous Consent.	Complied.
10.	The Project Proponent shall ensure that, there shall be no violation of orders of any Hon'ble Court/Nation Green Tribunal.	Noted.
11.	The unit shall not manufacture the Clinker and Cement more than consented quantity.	Noted.