

# Ambuja Cement

Ref: ACL(Nlg)/EMD/2019/05-04

7<sup>th</sup> May 2019

**Dr. S.C. Katiyar,**  
**Director,**  
**Regional Office (North Central Zone),**  
**Ministry of Environment, Forests & Climate Change,**  
**Government of India**  
**25, Subhash Road, Dehradun - 248001**

**Sub: Half Yearly compliance of conditions of Environmental Clearance.**

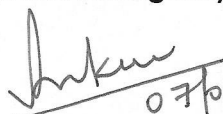
Dear Sir,

This has reference to the Environmental Clearance granted to our plant by MoEF vide letter no. J-11011/173/2008-IA II (I) dated August 22, 2008. We are sending a point-wise status report from October 2018 to March 2019 on compliance of the stipulated environmental conditions/safeguards of Environmental clearance letter referred above along with Cement Production from October 2018 to March 2019 (Annexure - 2) through e-mail address: **moef.ddn@gov.in**. With a request to kindly acknowledge the receipt through return mail.

Hope you will find the information in order.

Thanking you.

Yours faithfully,  
for **Ambuja Cements Limited**  
(Unit: Nalagarh)

  
07/05/2019  
**[Ankur Agarwal]**  
**Vice President**

Encl: As above

CC – The Member Secretary, H.P. State Pollution Control Board, - Hard copy  
Him Parivesh', Phase-III, New Shimla, Shimla-171009, HP

Regional Officer, HP State Pollution Control Board, -Hard Copy  
Baddi, Distt. Solan (H.P.)

Additional Director  
Central Pollution Control Board Regional Directorate ( North) - Hard Copy  
PICUP Bhawan, Vibhuti Khund, Gomti Nagar  
Lucknow - 226010

**AMBUJA CEMENTS LIMITED**  
(Unit - Nalagarh)

Village Navagraon, P. O. Jajhra, Teh. Nalagarh, Distt. Solan - 174 101 (H.P.)  
Tel.: 01795-662701, Fax: 01795-662702, Website: www.ambujacement.com  
Regd.Off. : P.O. Ambuja Nagar, Taluka-Kodinar, Distt. Gir Somnath, Gujarat-362715  
CIN: L26942GJ1981PLC004717

### **Compliance of Conditions of Environment Clearance**

Name of the Project: Ambuja Cements Ltd., Village Navagraon, Tehsil Nalagarh, Distt. Solan (H.P.)

Clearance letter No.: J-11011/173/2008-IA-II(I) dated 22 August 2008

Period of Compliance: October 2018 to March 2019

| Sl. No. | Condition  | Compliance Status  |
|---------|--|--|
| i       | The particulate matter emissions from various sources shall not exceed 50 mg/Nm <sup>3</sup> . The fugitive emissions during loading and unloading shall be suitably controlled. Bag house/ filters shall be provided to control air emissions to achieve the prescribed standards.  | To achieve the prescribed standards of Ambient air and Stack emissions, 27 Nos. of Bag filters and one main Bag House have been installed. Stack emissions are maintained well below the prescribed limit. Stack emission data from October 2018 to March 2019 reveals that the monthly average of stack emission is in the range of 4.22 mg/Nm <sup>3</sup> to 16.94 mg/Nm <sup>3</sup> . Stack Emission Data from October 2018 to March 2019 is enclosed as <b>Table - 1</b> |
| ii      | The locations of ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Himachal Pradesh Pollution Control Board (HPPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated. | Six Ambient Air quality monitoring stations have been fixed and the report is submitted to State Pollution Control Board on monthly basis. Average Monthly Ambient Air Quality monitoring data from October 2018 to March 2019 was in the range of 57.1 ug/m <sup>3</sup> to 72.4 ug/m <sup>3</sup> for PM 10 and 11.19 ug/m <sup>3</sup> to 20.42 ug/m <sup>3</sup> for PM 2.5. Ambient Air Quality Data from October 2018 to March 2019 is enclosed as <b>Table - 2</b>      |
| iii     | The company shall obtain permission for drawl of 400 m <sup>3</sup> /day ground water from the Central Ground Water Authority/ Central Ground Water Board and copy of the same shall be submitted to the ministry and its Regional Office at Chandigarh within three months from the date of issue of this letter.                       | Required permission has been obtained and a copy of permission letter has already been submitted to the Regional office of MoEF, at Chandigarh vides our letter dated 22 <sup>nd</sup> June 2010.  |
| iv      | Green belt shall be developed at least in 33% of plant area to mitigate the effect of fugitive emissions all around the plant as   | Provision has been kept for development of Green Belt. We have planted 6897 Trees and 34558  |

Ambuja Cements Limited (Unit: Nalagarh)  
Village Navagraon, P.O. Jajhra, Tehsil Nalagarh, Distt. Solan (H.P.) 174 101  
(Regd. Off.: P.O. Ambujanagar, Taluka Kodinar, Distt. Gir Somnath, Gujarat – 362 715)  
CIN:L26942GJ1981PLC004717



|     |   |  |
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|     | per the guidelines of Central Pollution Control Board.  | Shrubs upto March 2019. Total green cover is more than 33% of the plant area. Detail of plantation up to March 2019 is enclosed as Table – 3   |
| v   | The project authorities shall transport the raw materials and cement in covered means to avoid fugitive emission during transport.  | All the raw materials and Cement are transported in covered trucks to avoid fugitive emission during transportation.   |
| vi  | No clinker manufacturing facility shall be installed by the company   | Clinker manufacturing facility has not been installed.   |
| vii | All the recommendations mentioned in the CREP guidelines for the cement plants shall be followed and complied.  | All the recommendations mentioned in CREP guidelines for Cement plants are followed and complied. Compliance status enclosed as Annexure -1  |
|     | <b>GENERAL CONDITIONS</b>   |  |
| i   | The project authorities shall strictly adhere to the stipulations of the SPCB/ state government or any other statutory body.  | All stipulations of SPCB/ State Government and other statutory bodies are being complied and shall be taken care in future also.   |
| ii  | All other necessary statutory clearances from the concerned Departments including "No Objection Certificate" from the Himachal Pradesh Pollution Control Board (HPPCB) shall be obtained prior to commencement of construction and/ or operation.   | No Objection Certificate was obtained from HPPCB vides letter no. PCB(1114) Ambuja Cement Navagraon/6-13867-73 dated 27/09/2008. All other Statutory Clearances like single window clearance consent under Air and Water Acts have also been obtained. Latest consent is valid upto 31.03.2020 |
| iii | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. | The point has been noted and will be taken care during expansion or modification in plant in future.   |
| iv  | At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.  | Process interlocking system has been provided which shall automatically trip off the mill in case of failure of pollution control system.  |
| v   | The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> ) and  | Gaseous emission (SO <sub>2</sub> and NO <sub>x</sub> ) is   |

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|      | particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time.   | not applicable in case of stack emissions in grinding unit where we are monitoring Particulate matter only but in case of Ambient air quality they are being monitored. All the values are within the prescribed norms.  |
| vi   | The company shall undertake following Waste Minimization measures:   |  |
|      | Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.  | No by-product being generated from process.  |
|      | Use of "Close pneumatic" system for transport of fine material.  | All fine materials are transported in closed systems to avoid any leakage/spillage.  |
|      | All venting systems shall be connected with dust arresting equipments.   | All the material transfer points and venting systems are equipped with Bag Filters.  |
|      | Dust collect in pollution control equipments shall be reused.  | Dust collected in pollution control equipment is automatically recycled in the respective process.   |
| vii  | Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.   | Fugitive emissions in work zone environment, product and raw materials storage area is regularly monitored and are conforming to the prescribed norms.   |
| viii | The overall noise levels in all around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). | All possible noise control measures have been taken. Ambient Noise is regularly monitored and the monitored values are within the prescribed standards i.e. 75 dBA (day time) and 70 dBA (night time). A Report of Ambient Noise Monitoring for the period from October 2018 to March 2019 is enclosed as <b>Table – 4</b> |
| ix   | The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water.   | Three rain water harvesting structures with proper drainage system have been made for collection of rain water to recharge the ground water. Based on our own measurements, this unit was approximately 3.2 times water positive in 2018.  |
| x    | Occupational health and safety measures shall be undertaken. Periodic monitorial for exposure to dust on the workers should be   | Occupational Health & Safety is given the top most priority in our company. An occupational health   |



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|      | conducted and records maintained including health records of the workers. The company shall engage a doctor who is trained in occupational health.  | centre has been set up with qualified doctor and a pharmacist. Regular medical checkup has been conducted for the workers as well as employees on annual basis and keeping proper records. Last health check up was done in April and May 2018 and the next one is planned in April/May 2019 The company has set up a separate H&S Department that ensures strict adherence to all safety norms.     |
| xi   | The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.  | Ambuja Cement Foundation (a Non-Governmental Organization) has been set up by the company for looking after Eco-developmental and community welfare measures in the project area and is working since the inception of the project.  |
| xii  | A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.   | To look after the environmental management and monitoring, the company has set up a separate Environmental Management Cell equipped with full-fledged laboratory.  |
| xiii | The project authorities shall earmark Rs. 2.20 Crores to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for all the conditions stipulated herein shall be submitted to the Ministry's Regional Office. The funds so provided shall not be diverted for any other purpose. | Though a sum of Rs.2.20 Crores was earmarked to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government, Initially we had spent approximately 41 Crores on Environment Protection measures and other related activities. We have spent Rs. 4240262/- from October 2018 to March 2019 for Environment Protection and other related activities. |
| xiv  | The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.   | Six monthly compliance reports are being submitted regularly. Last report from April 2018 to September 2018 was submitted vides our office letter No. ACL(Nlg)/EMD/2018/11-03 dated 16 <sup>th</sup> November 2018 in hard as well as soft copy through e-mail ( <a href="mailto:moef.ddn@gov.in">moef.ddn@gov.in</a> ). The   |

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|-----|---|---|
|     |   | same has also been posted on company website.   |
| xv  | 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 SPCB and may also be seen at Website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one should be in the Vernacular language of the locality and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry. | The condition has been complied with. The same had been advertised in two local news papers (The Tribune and Dainik Bhaskar) dated 29 <sup>th</sup> August 2008 in Hindi and the same had been forwarded to Regional Office of the Ministry, Chandigarh vide our letter dated 9 <sup>th</sup> September 2008. |
| xvi | 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 the concerned authorities and the date of start of project.  | The project was approved by the state govt. on March 11, 2008; EC was granted by MoEF on August 22, 2008. The project activities at site were formally started in January, 2009. Consent to Operate was issued by State Pollution Control Board on March 23, 2010 and production started on March 27, 2010.   |



Table - 1

STACK EMISSION MONITORING REPORT (OCTOBER 2018 TO MARCH 2019)

(Average values)

| Months        | PM Values in mg/Nm <sup>3</sup> |          |                                   |                                    |                              |                              |
|---------------|---------------------------------|----------|-----------------------------------|------------------------------------|------------------------------|------------------------------|
|               | Cement Mill Bag House           | D.G. Set | Clinker Dump Hopper Bag Filter -1 | Clinker Dump Hopper Bag Filter - 2 | Packing Plant Bag Filter - 1 | Packing Plant Bag Filter - 2 |
| OCTOBER 2018  | 4.84                            | *        | 13.72                             | 12.69                              | 15.70                        | 14.02                        |
| NOVEMBER 2018 | 4.22                            | *        | 14.33                             | 15.59                              | 16.85                        | 14.98                        |
| DECEMBER 2018 | 5.03                            | *        | 14.84                             | 13.94                              | 16.94                        | 15.09                        |
| JANUARY 2019  | 5.14                            | *        | 12.62                             | 13.44                              | 12.73                        | 13.34                        |
| FEBRUARY 2019 | 6.38                            | *        | 10.72                             | 13.28                              | 12.33                        | 14.34                        |
| MARCH 2019    | 7.10                            | *        | 11.90                             | 13.48                              | 12.45                        | 13.16                        |

\* DG not operated.

Table - 2

**AMBIENT AIR QUALITY MONITORING REPORT (OCTOBER 2018 TO MARCH 2019)**  
(Average Values)

| Parameter              | RSPM Values (µg/M <sup>3</sup> )                          |       |   |       |  |       |   |       |  |       |   |       |
|------------------------|---|-------|---|-------|--|-------|---|-------|--|-------|---|-------|
| Station Name/<br>Month | Station No. 1<br>(Labour<br>Hutment<br>towards<br>Jajhra) |       | Station No. 2<br>(Rain Water<br>Harvesting) |       | Station No. 3<br>(Roof top of<br>Adm. Block) |       | Station No. 4<br>(Roof top of<br>Guest House) |       | Station No. 5<br>(Near Nursery<br>towards Pater<br>Phaloo) |       | Station No. 6<br>(STP- Towards<br>Ratyor) |       |
|                        | PM10  | PM2.5 | PM10  | PM2.5 | PM10   | PM2.5 | PM10  | PM2.5 | PM10   | PM2.5 | PM10                                      | PM2.5 |
| OCTOBER 2018           | 66.5  | 19.65 | 57.6  | 20.00 | 60.2   | 19.50 | 63.0  | 20.42 | 62.2   | 19.69 | 66.9                                      | 20.15 |
| NOVEMBER 2018          | 70  | 19.77 | 64.9  | 18.23 | 69.6   | 19.46 | 68.6  | 18.92 | 72.4   | 19.46 | 69.8                                      | 18.69 |
| DECEMBER 2018          | 61.7  | 18.35 | 63.6  | 11.19 | 66.1   | 19.42 | 69.5  | 18.69 | 70.1   | 17.54 | 72.1                                      | 18.50 |
| JANUARY 2019           | 61.7  | 18.44 | 59.6  | 18.10 | 58.7   | 18.35 | 62.4  | 17.65 | 60.5   | 19.15 | 63.3                                      | 18.12 |
| FEBRUARY 2019          | 59.8  | 17.38 | 62.5  | 17.81 | 60.9   | 18.81 | 63.6  | 18.23 | 59.8   | 19.04 | 61.3                                      | 18.35 |
| MARCH 2019             | 58.0  | 18.96 | 62.0  | 17.88 | 58.3   | 18.42 | 57.1  | 17.08 | 58.3   | 18.65 | 59.1                                      | 17.73 |

| Parameter              | Gaseous Pollutants (µg/M <sup>3</sup> )                   |                 |   |                 |  |                 |   |                 |  |                 |   |                 |
|------------------------|---|-----------------|---|-----------------|--|-----------------|---|-----------------|--|-----------------|---|-----------------|
| Station Name/<br>Month | Station No. 1<br>(Labour<br>Hutment<br>towards<br>Jajhra) |                 | Station No. 2<br>(Rain Water<br>Harvesting) |                 | Station No. 3<br>(Roof top of<br>Adm. Block) |                 | Station No. 4<br>(Roof top of<br>Guest House) |                 | Station No. 5<br>(Near Nursery<br>towards Pater<br>Phaloo) |                 | Station No. 6<br>(STP- Towards<br>Ratyor) |                 |
|                        | SO <sub>2</sub>   | NO <sub>x</sub> | SO <sub>2</sub>                             | NO <sub>x</sub> | SO <sub>2</sub>                              | NO <sub>x</sub> | SO <sub>2</sub>                               | NO <sub>x</sub> | SO <sub>2</sub>  | NO <sub>x</sub> | SO <sub>2</sub>                           | NO <sub>x</sub> |
| OCTOBER 2018           | 9.3   | 13.3            | 7.7   | 11.1            | 8.3  | 12.1            | 7.8   | 12.4            | 9.0  | 13.4            | 8.3                                       | 12.1            |
| NOVEMBER 2018          | 9.7   | 13.7            | 9.6   | 12.8            | 9.9  | 13.8            | 10.0  | 13.6            | 10.1   | 13.2            | 8.9                                       | 12.3            |
| DECEMBER 2018          | 6.8   | 10.8            | 5.8   | 9.1             | 6.5  | 10.1            | 7.5   | 11.1            | 6.4  | 9.7             | 5.8                                       | 10.3            |
| JANUARY 2019           | 7.1   | 10.8            | 8.0   | 11.8            | 6.9  | 11.0            | 7.4   | 11.7            | 7.2  | 11.3            | 6.5                                       | 10.4            |
| FEBRUARY 2019          | 7.4   | 11.4            | 6.5   | 10.3            | 7.1  | 10.0            | 7.2   | 11.2            | 7.5  | 11.4            | 7.1                                       | 10.5            |
| MARCH 2019             | 7.4   | 11.4            | 7.1   | 11.0            | 6.8  | 10.9            | 7.8   | 11.3            | 6.8  | 11.2            | 7.0                                       | 11.6            |



**Table - 3****AMBUJA CEMENTS LIMITED (UNIT - NALAGARH)  
PLANTATION DATA UPTO MARCH 2019**

| Month                    | Trees planted | Shrubs planted |
|--------------------------|---------------|----------------|
| Upto December 2010       | 1640          | 8968           |
| January to December 2011 | 1161          | 18895          |
| January to December 2012 | 929           | 2835           |
| January to December 2013 | 570           | 2380           |
| January to December 2014 | 596           | 636            |
| January to December 2015 | 582           | 257            |
| January to December 2016 | 570           | 330            |
| January to December 2017 | 349           | 257            |
| January to December 2018 | 500           | 0              |
| January 2019             | 0             | 0              |
| February 2019            | 0             | 0              |
| March 2019               | 0             | 0              |
| TOTAL                    | 6897          | 34558          |

**AMBIENT NOISE MONITORING RESULTS ALONG THE BOUNDARY WALL OF THE COMPANY  
(OCTOBER 2018 TO MARCH 2019)**

| Location/Months                        | Noise Reading in dB(A) |            |               |            |               |            |              |            |               |            |            |            |
|--|------------------------|------------|---------------|------------|---------------|------------|--------------|------------|---------------|------------|------------|------------|
|  | October 2018           |            | November 2018 |            | December 2018 |            | January 2019 |            | February 2019 |            | March 2019 |            |
|  | Day Time               | Night Time | Day Time      | Night Time | Day Time      | Night Time | Day Time     | Night Time | Day Time      | Night Time | Day Time   | Night Time |
| Near Switch Yard                       | 63.7                   | 43.5       | 66.4          | 41.8       | 58.9          | 42.2       | 60.5         | 40.7       | 58.6          | 43.6       | 56.9       | 40.8       |
| Near Batching Plant                    | 54.9                   | 42.9       | 57.2          | 43.1       | 55.7          | 42.9       | 59.9         | 41.2       | 55.7          | 42.8       | 59.5       | 41.6       |
| Near Bore well - I                     | 58.5                   | 40.8       | 55.9          | 42.2       | 53.7          | 41.8       | 51.4         | 42.8       | 57.5          | 44.6       | 61.2       | 42.7       |
| Near Stores Building.                  | 62.3                   | 41.9       | 56.8          | 41.9       | 61.8          | 43.1       | 60.8         | 42.3       | 62.1          | 41.5       | 58.6       | 41.9       |
| At Material Gate                       | 64.8                   | 44.5       | 60.9          | 43.2       | 66.8          | 42.3       | 64.2         | 41.9       | 68.5          | 43.3       | 62.5       | 42.4       |
| Near Weigh Bridge                      | 62.6                   | 43.6       | 58.5          | 42.5       | 55.7          | 41.7       | 55.8         | 42.8       | 59.6          | 42.3       | 56.7       | 42.8       |
| Near Scrap yard                        | 68.5                   | 41.9       | 57.8          | 42.7       | 59.7          | 41.9       | 62.1         | 43.7       | 63.5          | 41.9       | 60.1       | 43.1       |
| Near Rain Water Harvesting Structure I | 58.9                   | 42.5       | 56.5          | 43.7       | 53.2          | 42.5       | 58.6         | 41.6       | 60.6          | 43.2       | 58.6       | 42.8       |
| Near STP                               | 53.7                   | 43.2       | 55.6          | 42.8       | 66.8          | 43.5       | 62.1         | 43.8       | 61.6          | 42.7       | 58.3       | 41.6       |
| Near MPSS                              | 56.8                   | 41.7       | 58.6          | 43.6       | 55.1          | 40.8       | 58.2         | 42.9       | 52.8          | 41.7       | 59.6       | 40.5       |



## Annexure - 1

### Compliance of Conditions of CREP recommendations Ambuja Cements Limited Village Navagraon - Nalagarh (H.P.)

| Sl. No. | Recommendation  | Compliance Status   |
|---------|---|---|
| 1       | Cement Plants, which are not complying with notified standards, shall do the following to meet the standards;<br><br>Augmentation of existing Air Pollution Control Devices - by July 2003.<br>Replacement of existing Air Pollution Control Devices - by July 2004   | Unit is already meeting the notified emission standards.  |
| 2       | Cement Plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100mg/ Nm <sup>3</sup> limit or particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm <sup>3</sup> .   | Emission level is maintained below 30 mg/Nm <sup>3</sup>  |
| 3       | The new cement kilns to be accorded NOC/Environmental Clearance w.e.f 1.04.2003 will meet the limit of 50 mg/Nm <sup>3</sup> for particulate matter emissions.  | Not Applicable as there is a Standalone Grinding Unit.  |
| 4       | CPCB will evolve load based standards by December 2003.   | No load based standard for cement industry particularly applicable to grinding unit has been evolved  |
| 5       | CPCB and NCBM will evolve SO <sub>2</sub> and NO <sub>x</sub> emission standards by June 2004.  | Not Applicable as this is a standalone Grinding Unit.   |
| 6       | The Cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit its recommendations within three months. | All the material transfer points are equipped with Bag Filters. Raw materials are stored in covered areas. Maximum area inside plant is either covered with Greenery or it has been concreted to prevent fugitive emission. |
| 7       | CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum cokes as fuel in cement kiln by July 2003.   | Not Applicable as this is a standalone Grinding Unit.   |
| 8       | After performance evaluation of various   | Continuous emission monitoring  |

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|    | types of continuous monitoring equipment and feedback form the industries and equipment manufactures, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003 | system has been installed at Cement Mill Stack.<br>Also a Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been installed.<br><br>Both the systems have been connected with CPCB and State Pollution Control Board for online data transmission. |
| 9  | Tripping in kiln ESP to be minimized by July 2003 as per the recommendations of NTF.  | Not Applicable as this is a standalone Grinding Unit.  |
| 10 | Industries will submit the target date to enhance the utilization of waste material by April, 2003.   | All the particulate matter collected through APCEs is automatically recycled in the respected processes. More over we are using fly ash for making Pozolona Portland Cement (PPC) which is waste of Thermal Plants.  |
| 11 | NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.   | Not Applicable as this is a standalone Grinding Unit.  |
| 12 | Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.<br>* Non complying units shall given bank guarantee to respective SPCBs.  | Not Applicable.  |



**AMBUJA CEMENTS LIMITED (UNIT - NALAGARH)**

**CEMENT PRODUCTION DATA FROM OCTOBER 2018 TO MARCH 2019**

| <b>MONTH</b>         | <b>CEMENT PRODUCTION (METRIC TONNES)</b> |
|----------------------|--|
| <b>OCTOBER 2018</b>  | <b>76830</b>                             |
| <b>NOVEMBER 2018</b> | <b>60955</b>                             |
| <b>DECEMBER 2018</b> | <b>77095</b>                             |
| <b>JANUARY 2019</b>  | <b>24935</b>                             |
| <b>FEBRUARY 2019</b> | <b>43576</b>                             |
| <b>MARCH 2019</b>    | <b>53240</b>                             |
| <b>TOTAL</b>         | <b>336631</b>                            |