

A	Specific Condition	
	Condition	Status of Compliance
i	Particulate emissions shall be controlled within 50 mg/Nm <sup>3</sup> by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB regularly	Particulate Emission level is below the norms Minimum – 03 mg / Nm <sup>3</sup> , Maximum – 28 mg / Nm <sup>3</sup> . Stack Height is mentioned in <i>Annexure I</i> . Stack emission result data monitored by NABL accredited laboratory [R V Briggs & Co. Private Ltd.]. Ambient Air data is provided in <i>Annexure II</i> . Fugitive emission data is provided in <i>Annexure III</i> .
ii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 should be followed	Ambient Air data is provided in <i>Annexure II</i>
iii	Gaseous emissions including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed	Since Ambuja Cements Limited, Unit : Sankrail is a grinding unit hence there is no occurrence of gaseous emission
iv	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyors should be covered with GI sheets. Covered sheds for storage raw materials and fully covered conveyors for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling	The company has installed adequate No. of Bag Filters throughout the plant for dust collection and extraction system to control fugitive dust emissions at various transfer points (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas. Raw Mill is not installed at Sankrail plant, since it is a cement grinding unit. Gypsum Stock piles are stored under covered shed (Figure 1) Clinker is stored inside two no. silos of 25,000 MT each (Figure 3). Fly-Ash is stored inside a 4000 MT Silo. – (Figure 4). Finished Cement is stored in 4 no. Cement Silos of 5,000 MT (Figure 5). All conveyors are covered with GI sheets (Figure 2) Fly Ash is handled through Pneumatic system (Figure 7)
v	Asphalting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard	All internal roads in the plant are concreted / pitched. Water sprinkler is used for dust suppression at the raw material stock yards, cement bag loading areas, truck yard and roads. Photograph of Bag Filter and water sprinkler arrangement is provided in Figure 6 & 10. Pedestrian Pathway (Figure 8) inside the factory premises are constructed to ensure safe vehicular movement beside concreted road (Figure 9).  SPM data inside plant is provided in <i>Annexure II</i>
vi	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and should not be overloaded. Vehicular emissions should be regularly monitored	Clinker and Gypsum are transported to the plant through covered wagons (Figure 11) Fly-ash is transported through closed bulkers only and over loaded quantity is not allowed. (Figure 7). Vehicular Emission is regularly monitored through checking of vehicle Pollution Certificate under PUC norms

vii	Total ground water requirement shall not exceed 270 m <sup>3</sup> /day and necessary permission from the competent authority for the drawl of water shall be obtained. Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater should be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge should be adopted	Ground water consumed for the period is 267 m <sup>3</sup> per day [average]. Permission obtained from Ground Water Resource Development Authority, Govt. of West Bengal. Permit No. P060900201074000000ITLE dt. 21.06.2011 & P060900201963000000ITSE dt. 13/02/2012 for 180 m <sup>3</sup> /day & 90 m <sup>3</sup> /day drawn of ground water through Tube wells. The copies of the permissions are provided in Annexure IV & V. Waste water treatment scheme is based on "Zero Discharge" concept. Waste water is recycled and reused to minimize fresh water usage. Present water discharged from STP being used for gardening & dust suppression within plant boundary. (Figure 10 & 12). Cement grinding process is a dry process hence no waste water is generated.
viii	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources	Roof top rain water harvesting on roofs of the colony quarters is prepared and 177 m <sup>3</sup> rain water is harvested for general usage.
ix	All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers / re-processors only	All the bag filter dust, clinker dust and cement dust from pollution control devices are recycled and reused in the process used for cement manufacturing. Spent oil is sold to authorized recyclers / re-processors only. Batteries are recycled under buy-back scheme by the suppliers.
x	Green belt shall be developed in at least 33% area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO	Out of the total existing plant area i.e. 18.36 ha, 6.14 ha area [ie, 33.44%] has already been developed into green belt / plantation. A thick green belt all along the roads and plant has been developed under a forestation program. Local species have been planted as per guidelines. Tree density is 1179 No./acre [estimated by Quick Field method] and survival rate is 98%. 141 No. of different plants varieties [eg. Neem, Akashmani, Mahogany, Arjun, Chatim and Kadam] are planted during this period.
xi	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner	For this period we have incurred 68.04 lac towards CSR
B	General Condition	
i	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government	Noted.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests	Noted.
iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from	Since it is a cement grinding unit no gaseous emission occurred during process

	time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location	
iv	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months	Ambient air quality [Annexure-II] both in-house & measured by third party [along with NO <sub>x</sub> and SO <sub>2</sub> ] and stack emission [Annexure-I] data are submitted along with this report.
v	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose	No industrial waste water is generated as this is a cement grinding unit, which has a dry process plant. Domestic waste water is collected in sewage treatment plant [zero discharge concepts] and recycled and reused to minimize fresh water usage. Present water discharged from STP being used for gardening & dust suppression within plant boundary. (Figure 10 & 12).
vi	The overall 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 levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime)	The overall noise levels are monitored once in two months in and around the plant area are within the prescribed limits. Noise monitoring data is minimum – 50.7 dBA, maximum 64.4 dBA at day time and minimum – 44.3 dBA, maximum – 57.7 dBA at night time. PPE are used for more than five minutes exposure
vii	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act	Health check up of all employee including contractual workmen has been conducted regularly as per Factories Act and it is a regular process and record has been maintained. Health check up is due on November 2017 and are going to be held also at that time
viii	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table	Ground water recharging is not permissible as per the NoC of West Bengal Pollution Control Board. Rain water harvested through pond excavation by Ambuja Cement Foundation is 17060 m <sup>3</sup> for the year 2016-2017.
ix	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply & health care etc	Noted. Photographs attached in Annexure VIII. Detailed activities are attached in Annexure VIIIA
x	As proposed, Rs 2.0 Crores and Rs. 0.20 Crores shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose	Capital cost towards environment pollution control measures, incurred during the period – Rs. 24.40 lac and Recurring expenditure incurred in this period Rs 78.01 lac (Bag filter maintenance, Maintaining Environment etc.)
xi	A copy of clearance letter shall be sent by the proponent to	The copies of clearance letter has been sent to Dhulagori

	concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent	Gram Panchayat on dt. 20/08/2011, Zilla Parishad on dt. 20/08/2011.  No suggestion is received from the above bodies.  The clearance letter has also been put in company website
xii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO <sub>2</sub> , NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain	Online AAQM has been installed. This has been started from the month of April 2012. Data has been uploaded in website. The critical parameters are displayed on the main gate of the company. SO <sub>2</sub> , NOx data measured by third party are attached in Annexure-II
xiii	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions	Noted
xiv	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail	The Form-V for the year ended 31 <sup>st</sup> March 2017 has been submitted to West Bengal Pollution Control Board on 22/09/2017. Attached photocopy of the same as annexure-VI. It has been uploaded in website also.
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 of Environment and Forests 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 shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar	Newspaper publications on 29 <sup>th</sup> June 2011 are enclosed in Annexure VII
xvi	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 commencing the land development work	The copy of NoC has been sent to MoEF and Regional Office on dt 26/12/2011

