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APCL/Works/ENV/2018-046

**Anjani Portland Cement Ltd**

(A Subsidiary of Chettinad Cement Corporation Pvt. Ltd.)

21<sup>st</sup> November, 2018

**Director (SEZ)**

**Ministry of Environment, Forests and Climate Change**

Government of India, Regional Office (SEZ)

1<sup>st</sup> and 2<sup>nd</sup> Floor, Handloom Export Promotion Council

34, Cathedral Garden Road, Nungambakkam, Chennai – 600 034

Dear Sir,

**Sub : Submission of Six Monthly EC Compliance & Environmental Monitoring Reports (Apr '18 - Sep '18) – Plant & Mine I of Anjani Portland Cement Limited at Chintalapalem Gudimalkapuram Villages & Chintalapalem Mandal, Suryapet District, Telangana State**

**Ref : Environmental Clearance granted by MoEF vide Letter No. J-11011/892/2008-1A-II (I) dated 5<sup>th</sup> Jan, 2010 & Amendment and Extension of Validity granted vide Letter No. J-11011/892/2008-1A-II (I) (Pt) dated 20<sup>th</sup> Oct, 2015**

We submit herewith the **Six Monthly Environmental Clearance Compliance along with Ground Water level reports & Environmental Monitoring Reports** pertaining to our Plant & Mine I located at Chintalapalem & Gudimalkapuram Villages & Chintalapalem Mandal, Suryapet District, Telangana State for the period from Apr'18 to Sep'18. The details of capacities commissioned and the balance capacities to be installed are shown in the table below.

Facility	Product	UoM	Capacity granted in EC	Current Capacity	Balance Capacity
Cement Plant	Cement	million tons per annum	3.85	1.925	1.925
	Clinker		2.31	1.15	1.16
Captive Power Plant	Power	mega watt	16	16	NIL
Captive Limestone Mine I	Limestone	million tons per annum	3.00	1.67	1.33

Yours faithfully

For **Anjani Portland Cement Limited**

**N Venkat Raju**

**Joint President (Works)**

Encl: Compliance Reports stated as above  
Soft Copies of reports (copied in CD)

Copy to: Director (Industries), MoEF, New Delhi/Director (Non-Coal Mining), MoEF, New Delhi

Member Secretary, CPCB, New Delhi/Scientist 'E' & In-charge, CPCB, Bangalore

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## ANJANI PORTLAND CEMENT LIMITED

Chintalapalem & Gudimalkapuram Villages , Chintalapalem Mandal, Suryapet District, Telangana State

### Cement Plant , Captive Power Plant & Anjani Limestone Mine I

#### Environmental Clearance Compliance Report (Apr '18 to Sep '18)

(Environmental Clearance granted by MoEFCC vide letter no. J-11011/892/2008-1A-II (I) dated 5<sup>th</sup> Jan 2010 & Amendment and Extension of Validity granted vide letter No. J-11011/892/2008-1A-II (I) (Pt) dated 20<sup>th</sup> Oct 2015 for Expansion of Cement Production Capacity from 0.594 to 3.85 million tons per annum, Clinker Production Capacity from 0.4 to 2.31 million tons of Clinker per annum, Limestone Mining Capacity from 0.6 to 3.0 million tons of Limestone per annum & Setting up of Captive Power Plant with a Capacity of 16 mw)

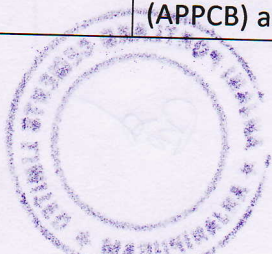
#### A. Specific Conditions

S.No	Specific Condition	Compliance Status
i.	No construction work at the proposed project site shall be started without obtaining prior clearances/ approvals for the linked mining component from the Indian Bureau of Mines (IBM) and State Govt. of Andhra Pradesh. A copy of the mining lease approval renewed time to time from the Indian Bureau of Mines (IBM) and State Govt., shall be submitted to the Ministry and its Regional Office at Bangalore before initiating any construction work at site related to mining.	<p><b>Plant</b></p> <p>The construction activities Cement Plant Expansion had been commenced after obtaining Consent for Establishment from Andhra Pradesh Pollution Control Board (APPCB) vide Order No 221/PCB/CFE/ RO-NGL/HO/2010-04 dated 31<sup>st</sup> Mar, 2010 and the Additional Capacity was commissioned after getting Consent for Operation from Andhra Pradesh Pollution Control Board (APPCB) vide Order No APPCB/PTN/NGL/37/ CFO/HO/2010-1905 dated 20<sup>th</sup> Oct, 2010.</p> <p><b>CPP</b></p> <p>After obtaining Consent to Establish from Telangana State Pollution Control Board (TSPCB) vide Order No. 06/TSPCB/CFE/RO-NLG/HO/2015-449 dated 15<sup>th</sup> Jun, 2015 for the 16 mw Captive Power Plant (CPP)), the construction work for the same has been commenced and operation started after getting Consent for Operation, from Telangana State Pollution Control Board vide Order No. TSPCB/RCP/NGL/ CFO&amp;HWM/HO/ 2016-2512 dated 22<sup>nd</sup> Dec, 2016.</p> <p><b>Mine</b></p>





S.No	Specific Condition	Compliance Status
		<p>The Mining Lease was first granted vide GO Ms No 38 dated 10<sup>th</sup> Jan 1990 by the Government of Andhra Pradesh and was renewed vide GO Ms No 148 dated 12<sup>th</sup> Oct 2012 ( renewed upto 30<sup>th</sup> Jun 2030) &amp; GO Ms No 73 dated 26<sup>th</sup> Aug 2017 ( renewed upto 14<sup>th</sup> Jun 2040) .The Consent for Establishment for the expansion of Mining Capacity was granted vide Order No. 221/PCB/CFE/RO-NLG/HO/ 2009-775 dated 24<sup>th</sup> Jun, 2010 by Andhra Pradesh Pollution Control Board (APPCB). The copies of the above mentioned approvals had been submitted to MoEF and the Regional Office of MoEF, Bangalore before commencing the construction work. The expansion of Mining Capacity was taken up after getting the Consent for Operation from Andhra Pradesh Pollution Control Board (APPCB) vide Order No. APPCB /PTN/NGL/ 425008/ CFO/ HO/ 2010 – 1904 dated 20<sup>th</sup> Oct, 2010 and the approved Mining Plan from Indian Bureau of Mines (IBM) vide Letter No.MP/AP/NLG/ LST/235/SZ/1132 dated 14<sup>th</sup> Dec, 2012 .</p> <p>Mining operations are being carried out as per the Modified Mining Plan approved by IBM vide Letter No. AP/NLG/MP/Lst-3/Hyd, dated 24<sup>th</sup> Aug, 2015, valid up to 31<sup>st</sup> Mar, 2020.</p>
ii.	<p>Continuous monitoring system to monitor gaseous emissions shall be provided and limit of SPM shall be controlled within 50 mg/Nm<sup>3</sup> by installing adequate air pollution control system. Stack of adequate height will be installed to control SO<sub>2</sub> and NOx emissions as per statutory requirement. The monitoring data collected for ambient air fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Bangalore, A. P. Pollution Control Board (APPCB) and CPCB regularly.</p>	<p>Continuous Emission Monitoring System (CEMs) provided to monitor Particulate Matter, SO<sub>2</sub> and NOx for the Raw Mill &amp; Kiln Stacks, Captive Power Plant (CPP) Boiler Stack. Particulate Matter (PM) Online Monitors also provided for Cement Mill, Coal Mill, and Cooler ESP for monitoring.</p> <p>In Cement Plant, the PM emissions are being controlled within norms by installing adequate Air Pollution Control Measures like RABH, ESP, Bag Filters. For the CPP, the PM emissions are being controlled within norms by installing ESP.</p>





S.No	Specific Condition	Compliance Status
		<p>Stack of 90 m height installed to control SO<sub>2</sub> emissions as per statutory requirement for the Raw Mill &amp; Kiln. Low NO<sub>x</sub> burners have been provided for the Cement Kilns. For CPP Boiler, a stack of 70 m height has been provided,</p> <p>Monitoring data collected for ambient air, and stack emissions are being submitted to the Ministry's Regional Office at Chennai, Telangana State Pollution Control Board (TSPCB) and CPCB, Bangalore regularly. For carrying out Monthly Environmental Monitoring, the services of M/s Global Enviro Lab, Hyderabad are being utilized.</p>
iii.	<p>As proposed, Kiln and Cooler of new line II shall be provided with a bag house and electrostatic precipitators (ESPs) to control emissions within 50 mg/Nm<sup>3</sup>. Bag filters and dust collectors shall be provided at all other emission sources and maintained properly to achieve standards as prescribed by the APPCB or under (E(P) Act whichever are more stringent.</p>	<p>In the Cement Plant, Reverse Air Bag House (RABH) for Raw Mill &amp; Kiln and Electrostatic Precipitator (ESP) for Cooler had been provided to control Particulate Matter (PM) emissions within norms. For CPP, ESP has been provided to control Boiler emissions within norms.</p> <p>For the Cement Plant &amp; CPP, the Bag Filters had been provided at all transfer points of the Conveyors, Storage Silos and Crushers. Bag House has been provided for Cement Mill and Coal Mill.</p> <p>All these Pollution Control Devices are being maintained in good condition to ensure emission levels are less than the prescribed standards by TSPCB/CPCB/MoEF, whichever are more stringent.</p>
iv.	<p>Possibilities shall be explored for the proper and full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB) and a feasibility report shall be prepared and submitted to the Ministry and its Regional Office at Bangalore within 3 months from the date of issue of the letter.</p>	<p>As the hot gases from the Pre-heater are used to remove the moisture content in the raw materials, while the same are ground in Raw Mill, there is no wastage of heat energy. Hence, the feasibility of using the spent gases with a temperature of 180°C, after the loss of heat energy at Raw Mill, for generation of steam using Waste Heat Recovery Boiler (WHRB) is not feasible.</p>
v.	<p>The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November,</p>	<p>The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 are being followed. The Quality of</p>



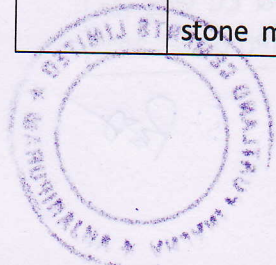


S.No	Specific Condition	Compliance Status
	2009 shall be followed.	Ambient Air is within the standards prescribed.
vi.	<p>Ambient air monitoring shall be carried out in the nearby villages and efforts shall be made to control and minimize the particulate matters to bare minimum. The company shall install 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 etc. Crusher shall be operated with high efficiency bag filters. All conveyers shall be covered with GI sheets Covered sheds for storage of raw materials and fully covered conveyers 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.</p>	<p>Ambient Air Quality is being monitored in the nearby villages by a NABL accredited Laboratory.</p> <p>All efforts have been taken to control and minimize the particulate matters to bare minimum. Adequate dust collection and extraction system (Bag Filters) or dust suppression (Water Sprinkling) have been installed to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. Crushers are provided with high efficiency bag filters. All conveyors are covered with GI sheets. Covered sheds for storage of raw materials (Coal, Limestone, Solid waste, gypsum), fully covered conveyers for transportation of materials had been provided besides the silos for Coal, Cement, Fly Ash and Clinker. Pneumatic conveying system has been provided for Fly Ash handling.</p> <p>For CPP also, the fugitive emission control measures viz., water sprinkling on conveyors and roads, good maintenance of equipment/vehicles, pneumatic conveying of Fly Ash, ensuring use of tarpaulin to cover coal during transportation from supply sources, speed control and avoiding overloading of trucks are ensured. Also, adequate greenbelt has been developed along the boundary of the premises to control dust.</p>
vii.	<p>Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM particularly in mine area 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</p>	<p>Regular water sprinkling is being carried out in critical areas like roads in the plant as well as in the Mine.</p> <p>The ambient air quality parameters are within the norms prescribed by the Central Pollution Control Board.</p>



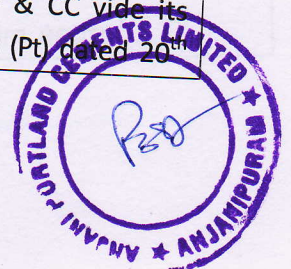


S.No	Specific Condition	Compliance Status
viii.	Asphalting/concreting of roads and water spray all around the critical areas prone to air pollution and having high levels of SPM and RPM shall be ensured.	Paved /Concrete Roads and Water Sprinkling on the roads/conveyors are ensured to control fugitive emission within the Plant area.
ix.	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 shall be followed. Secondary emissions from the drilling, blasting, excavation, loading and transportation operations shall be controlled by water sprinkling and other dust suppression methods.	<p>In the Mine, the secondary fugitive emissions are being controlled by ensuring</p> <ol style="list-style-type: none"> <li>Wet Drilling</li> <li>Controlled Blasting</li> <li>Water Sprinkling</li> <li>Avoiding overloading</li> <li>Covering Limestone with tarpaulin while transporting</li> <li>Speed Control</li> <li>Greenbelt along the boundary</li> </ol> <p>The regular monitoring of fugitive emissions will be ensured.</p>
x.	Effort 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 shall be transported in the closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded	<p>The following precautions are being taken to reduce the impact of transport of raw materials and end products on the surrounding environment, including agricultural land.</p> <ol style="list-style-type: none"> <li>Covering of materials ( raw materials , fuel, and end products) with tarpaulin while transporting</li> <li>Transporting Fly Ash in bulkers</li> <li>Controlling of vehicle speed</li> <li>Avoiding overloading</li> <li>Good maintenance of vehicles</li> <li>Insisting on PUC Certificate for all vehicles entering the factory/ Mine premises</li> </ol>
xi.	Rainwater harvesting measures shall be adopted for the augmentation of ground water at cement plant, colony and mine site. Besides, company must also harvest the rainwater from the rooftops and storm water drains to recharge the ground water. The company must also collect rain water in the mined out pits of captive lime stone mine and use the same water for	<p>Hydrological study completed and the recommendations of the same are being implemented. Facilities like storm water drains, &amp; rainwater harvesting ponds provided to ensure ground water recharge</p> <p>The rain water is being collected in the mined out pit of captive Limestone Mine I and is being used for dust suppression, greenbelt development etc.,</p>



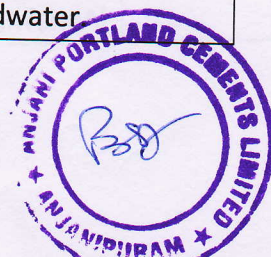


S.No	Specific Condition	Compliance Status
	the various activities of the project to conserve fresh water and reduce the water requirement pressure from the river. The Company shall construct the rain water harvesting and groundwater recharge structures outside the plant premises also in consultation with local Gram Panchayat and Village Heads to augment the ground water level. An action plan shall be submitted to Ministry's Regional Office at Bangalore within 3 months from date of issue of this letter.	<p>to conserve fresh water and reduce the water requirement pressure from the river/ground water.</p> <p>Four numbers of check dams had been constructed at the following locations near the plant and colony Surrounding to facilitate recharging of ground water.</p> <ol style="list-style-type: none"> <li>Across the natural stream coming from Gudimalkapuram Village.</li> <li>Across the Natural stream before Nimalipuri Cross road.</li> <li>Across the Natural stream after Nimalipuri Cross road</li> <li>Across Mine I de-watering drain joining nearby village tank</li> </ol>
xii.	Total ground water requirement from River Krishna and the mine pit harvested rain water shall not exceed 250 m <sup>3</sup> /day. All the treated wastewater from the workshop of mines shall be treated for oil and grease removal and used in the process and/or for dust suppression, green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted.	<p>Amendment in Environmental Clearance has been obtained from MoEF &amp; CC vide its Letter No J-11011/892/2008-1A-II (I) (Pt) dated 20<sup>th</sup> Oct, 2015 for a total water requirement of 1100 m<sup>3</sup>/day for the Cement Plant, Captive Power Plant , Colony and Mine.</p> <p>Total water consumption of Cement Plant, Captive Power Plant, Colony and Mine will not exceed 1100 m<sup>3</sup>/day.</p> <p>There is no workshop with in Mine premises as the HEMM are being maintained at outside workshop,</p> <p>From Mines there will not be any generation of process waste water. Domestic effluent is treated in septic tank followed by soak pit.</p> <p>No process waste water is being discharged outside the factory premises and 'zero' discharge system is being followed.</p>
xiii.	'Permission' for the drawl of water from River Krishna and the mine pit harvested rain water shall not exceed 250 m <sup>3</sup> /day and prior permission shall be obtained	The total water requirement for the Plant, Colony and Mine is 1100 m <sup>3</sup> /day as per EC amendment received from MoEF & CC vide its Letter No J-11011/892/2008-1A-II (I) (Pt) dated 20 <sup>th</sup>



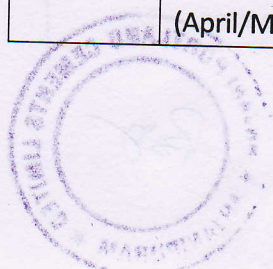


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	from the concerned department. The water stored in the artificial reservoir made in the mine pit shall be used maximum to reduce ground water consumption. No effluent shall be discharged from the mine to any water body or nearby river.	<p>Oct, 2015.</p> <p>The permission from State Ground Water Board for drawl of ground water has been obtained vide letter no. 4632/GP/TSIPASS/NLG/2016-17 dated 01/10/2016.</p> <p>The permission from Irrigation and CAD Department, Telangana for drawl of 1750 KLD of water from Krishna River has been obtained vide G.O.Ms.No.42 dated 13<sup>th</sup> Jun, 2016.</p> <p>The water stored in the mine pit is being used to a maximum extent to reduce ground water consumption. No effluent is being discharged from the mine to any water body or nearby river.</p>
xiv.	Domestic waste water will be treated in septic tanks followed by soak pits and treated domestic effluent shall be used for greenbelt development within the plant premises. Domestic waste from colony and STP shall be segregated into bio-degradable and non-biodegradable. Bio-degradable waste shall be composted and non-biodegradable waste shall be land filled at identified sites.	<p>Domestic waste water being treating in Sewage treatment plant (STP) installed and commissioned in Jul, 2016 and the treated domestic effluent is being used for greenbelt development within the plant premises.</p> <p>As there is no generation of any non-biodegradable domestic waste water, the part of the condition pertaining to the segregation of the same into bio-degradable and non-biodegradable is not applicable.</p>
xv.	Detailed hydrological study shall be carried out and implementation of recommendations of the detailed hydrological study shall be ensured.	Hydrological study completed and the recommendations of the same are being implemented.
xvi.	The project proponent shall ensure that no natural water course shall be obstructed due to any mining operations.	No natural water course will be obstructed due to mining operations.
xvii.	The project proponent shall also take appropriate mitigative measures to prevent pollution of nearby River and other surface water body, if any.	As there is no waste water discharge from Plant and Mine, the possibility of pollution on account of waste water is not envisaged.
xviii.	Suitable conservation measures to augment ground water resources in the area shall be planned and implemented in	Suitable conservation measures like storm water drains & rain harvesting pond provided to collect, and recharge the groundwater.



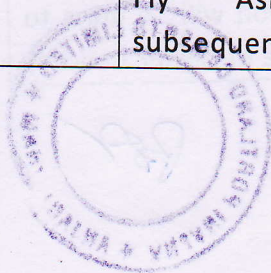


S.No	Specific Condition	Compliance Status
	consultation with Regional Director, Central Ground Water Board.	
xix.	Garland drains shall be constructed to arrest silt and sediment flows from soil. The water so collected shall be used for watering the mine area, haul roads, greenbelt development etc. The drains shall be regularly de-silted and maintained properly.	In the Mine, the Garland drains provided are maintained well by regular cleaning. The rainwater collected is being used for sprinkling on the haul roads and for the green belt development.
xx.	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted, particularly after monsoon, and maintained properly. Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and inter burden dumps and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals.	<p>No inter burden/mineral dump is available.</p> <p>Garland drains/catch drains constructed for the working pit.</p> <p>The rainwater is being directed through the garland drain/catch drains to the Mine Sump at the centre of the Mine. The rainwater so collected will be utilized for watering the mine area, roads, green belt development etc.,</p> <p>The drains are being regularly desilted, particularly after monsoon, and maintained properly.</p> <p>Mine is having only one working pit and the mining has reached depth of 30 m at the center of the Mine Pit, where the sump is provided. Hence, there will not be any overflow. Also, adequate retention period is available to allow proper settling of solid particles washed into the sump.</p>
xxi.	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, Central Ground Water Board. The frequency of monitoring shall be four times a year pre-monsoon (April/May), monsoon (August), post-	<p>Two numbers of Piezometers installed on two locations basing on recommendations of Hydro-geological study report.</p> <p>Ground water quality is being monitored and the data thus collected is being sent to Ministry of Environment Forest &amp; Climate Change and its Regional Office at Chennai, Central Ground Water Authority and State Ground Water Board.</p>



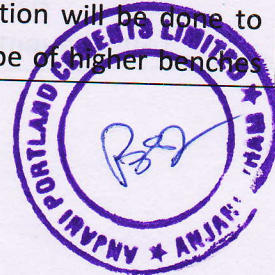


S.No	Specific Condition	Compliance Status
	monsoon (November) and winter (January). Data thus collected shall be sent at regular intervals to Ministry of Environment and Forests and its Regional Office at Bangalore, Central Ground Water Authority and State Ground Water Board.	
xxii.	Dimension of the retaining wall at the toe of inter burden dumps and inter burden benches within the mine to check run-off and siltation shall be based on the rain fall data.	As there is no inter-burden waste and no inter-burden bench, the need for providing retaining wall does not arise.
xxiii.	All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for Cement manufacturing. The sludge from STP shall be used as manure for green belt development. Waste/spent oil shall be sold to authorized recyclers /reprocessors only.	<p>All the dust collected using the Bag Filters are being recycled and reused in the respective processes.</p> <p>The sludge from STP is being used as manure for greenbelt development.</p> <p>Waste/spent oil being used in Kiln.</p>
xxiv.	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.	<p>Separate feeding system installed for co-processing high calorific hazardous waste in the Cement Kiln. The following Hazardous Wastes are being co-processed in the Cement Kiln, with prior approval from CPCB and TSPCB.</p> <p>a. Spent Carbon b. Spent Organic Solid c. Spent Organic Liquid</p>
xxv.	Efforts shall be made to use low grade, more fly ash and solid waste in the cement manufacturing	<p>The following waste materials are used in Cement manufacturing complying the specifications of BIS.</p> <p>a. Fly Ash b. Iron Sludge c. Spent Gypsum</p>
xxvi.	All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amended in 2003, Efforts	All the fly ash generated (100 %) in 16 MW CPP is being used for production of Pozzolana Portland Cement (PPC).





S.No	Specific Condition	Compliance Status
	shall be made to use fly ash maximum in making Pozzolana Portland Cement (PPC).	
xxvii.	Mechanized open cast shall be adopted and no change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests	<p>Mechanized open cast method of mining is being followed.</p> <p>No change in mining technology and scope of working will be made without prior approval of the Ministry of Environment &amp; Forests</p>
xxviii.	Digital processing of the entire lease area using remote sensing technique shall be done regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bangalore.	Digital processing of the core and buffer zone of Mining Lease Area, using remote sensing technique was carried out to monitor the land use pattern and the report was submitted to MoEF & CC and its Regional Office at Chennai.
xxix.	Top soil, if any, shall be stacked with proper slope at earmarked site(s) only with adequate measures and shall be used for reclamation and rehabilitation of mined out areas No top soil shall be used to reclaim the mined out area by backfilling limestone mine.	As there is no top soil generation, the need for stacking /storing the same does not arise. Also, no back-filling has been planned as the mined out area will be converted into Rain water harvesting Reservoirs. Hence, the reclamation and rehabilitation of mine out area using top soil is not envisaged.
xxx.	The inter burden and other waste generated shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The total height of the dumps shall not exceed 30 m in three terraces of 10 m each and the over all slope of the dump shall be maintained to 28°. The inter burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining, Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office at Bangalore on	<p>As there is no inter-burden, waste generation, the need for stacking /storing the same does not arise.</p> <p>All the mined material (Limestone) will be sent to Plant and there is no rejection involved. Hence, there will not be any dumps for storing the waste/reject materials.</p> <p>Instead of reclamation of mined out area, the same will be converted into Rain water Harvesting Reservoir to conserve rain water and recharge ground water. Hence, the reclamation of mined area is not envisaged.</p> <p>The higher benches of excavated pit/mining pit will be terraced and plantation will be done to stabilize the slopes. The slope of higher benches</p>





S.No	Specific Condition	Compliance Status
	six monthly basis.	will be made gentler.  Compliance status is being submitted to the MoEF & CC and its Regional Office at Chennai on six monthly bases.
xxxi.	The area for external over burden dump shall be reduced by suitably increasing the height of the dumps with proper terracing. It shall be ensured that the overall slope of the dump does not exceed 28°.	As there is no overburden, the need for storing the overburden outside the Mining Lease Area, does not arise. Hence, this condition is not applicable.
xxxii.	Wet drilling blasting method and provision for the control air emissions during blasting using dust collectors etc shall be used.	Wet drilling and controlled blasting are being followed.
xxxiii.	Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced, The mitigate measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented, No objection certificate' from the Chief Controller of Explosives shall be obtained	Blasting operations are being carried out in day time only.  Controlled blasting is being carried out using delay detonators with bottom initiation to control ground vibrations and to arrest fly rocks and boulders.  Ground vibrations are monitored for every blast with Seismograph.  The Licence for possession and use of explosives has been renewed upto 31 <sup>st</sup> Mar, 2021 vide letter no. E/HQ/TG/22/405/(E34585) dated 22 <sup>nd</sup> Sep, 2017 by the Deputy Chief Controller of Explosives.
xxxiv.	Bench height, width and slope for individual bench shall be properly assessed and implemented. Adequate measures shall be adopted to stabilize the slope before abandonment. The fencing around the reservoir shall be provided to prevent accidents.	As per IBM approved Mining Plan, the bench height, width and slope are being maintained.  As the nature of the Limestone Deposit is of hard strata (rocky nature), there will not be land slide issues and the benches formed are stable.  The fencing around the reservoir will be provided to prevent accidents.
xxxv.	As proposed, green belt shall be	The detail of greenbelt development is given



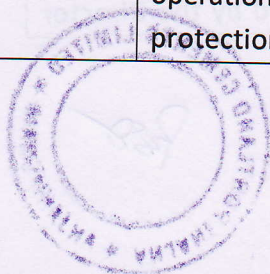


S.No	Specific Condition	Compliance Status
	<p>developed in at least 33 % in Cement Plant and all the mined out area except used for reservoir by planting the native species around mining lease area, over burden dumps ,around water body, roads.etc, in consultation with the local DFO / Agriculture Department. Plantation already done in mine area shall be properly maintained and suitably replaced time to time. At least, 1,500 trees per year shall be planted with a tree density of 2,000 trees per ha. An action plan shall be submitted in this regard</p>	<p>below.</p> <p><b><u>Plant &amp; Colony</u></b></p> <p>Total area : 51.48 ha</p> <p>33 % of above area : 17.00 ha</p> <p>Number of saplings planted : 52000</p> <p>Area covered under green belt : 20 ha</p> <p>Further, it is proposed to plant 2500 saplings per annum.</p> <p><b><u>Mine</u></b></p> <p>Total area : 57.54 ha</p> <p>Proposed greenbelt area : 12.01 ha</p> <p>Number of saplings planted : 15,000</p> <p>Area covered by greenbelt : 9.0 ha</p> <p>Further, it is proposed to plant 2000 saplings per annum.</p> <p>The species planted are</p> <ol style="list-style-type: none"> <li>Neem trees</li> <li>Kanuga trees</li> <li>Flame of the forest (Gulmohar)</li> <li>Dirisina etc.,</li> </ol> <p>The planted trees are maintained well and replaced as required.</p>
xxxvi.	<p>The void left unfilled in the mining area shall be converted into water body .The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral , fencing shall be carried out along the excavated area.</p>	<p>The void left in the mining area will be converted into water body to harvest rainwater. The higher benches of excavated pit/mining pit will be terraced and plantation will be done to stabilize the slopes. The slope of higher benches will be made gentler. Also, peripheral fencing will be carried out along the Rainwater Harvesting Reservoir.</p>
xxxvii.	<p>The project proponent shall modify the mine plan of the project at the time of seeking approval for the next mining scheme from the Indian. Bureau of Mines</p>	<p>As there is no overburden, the need for storing the overburden outside the Mining Lease Area, is not envisaged. Hence, this condition is not applicable.</p>



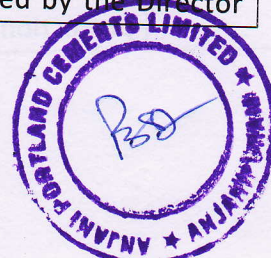


S.No	Specific Condition	Compliance Status
	so as to reduce, the area for external over burden dump by suitably increasing the height of the dumps with proper terracing. It shall be ensured that the overall slope of the dump does not exceed 28°.	
xxxviii.	Action plan for the mining, management of over burden (removal, storage, disposal etc.), reclamation of the mined out area and mine closure shall be submitted to the Ministry and its Regional Office at Bangalore. A final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	<p>As there is no overburden in the Mine, the need for storage and disposal of the same is not envisaged.</p> <p>Instead of reclamation of mined out area, the same will be converted into Rainwater Harvesting Reservoir to conserve rainwater and recharge ground water.</p> <p>The higher benches of excavated void/mining pit will be terraced and plantation will be done to stabilize the slopes. The slope of higher benches will be made gentler.</p> <p>A Final Mine Closure Plan along with details of Corpus Fund will be submitted to the Ministry of Environment &amp; Forests 5 years in advance of final mine closure for approval.</p> <p>Meanwhile, the Progressive Mine closure Plan has been submitted to Indian Bureau of Mines along with Mining Plan.</p>
xxxix.	'Permission' and 'Recommendations' of the State Forest Department regarding impact of cement plant and mining activities on the surrounding reserve forests, if any, shall be obtained and implemented, Further, Conservation Plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.	Letter from Forest Department ref No.4067/2002-S1 dated 30.11.2002.
xl.	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna. Action	All required precautionary and control measures are being taken, while carrying out mining operations, as stipulated in the Environmental Clearance, Consent for Operation, IBM approved



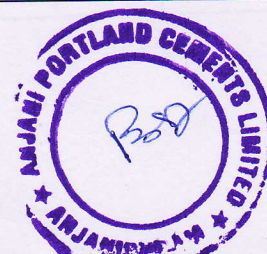


S.No	Specific Condition	Compliance Status
	plan for conservation flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department, Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional office Within 3 months from the date of issue of this letter.	Mining Plan to ensure conservation and protection of fauna .
xli.	The company shall obtain necessary clearances/approval from the concerned Departments i.e. Indian Bureau of Mines, State Government, MoEF etc. for the linked mining component before undertaking any construction activity at the project site.	<p>The Mining Lease was first granted vide GO Ms No 38 dated 10<sup>th</sup> Jan 1990 by the Government of Andhra Pradesh and was renewed vide GO Ms No 148 dated 12<sup>th</sup> Oct 2012 ( renewed upto 30<sup>th</sup> Jun 2030) &amp; GO Ms No 73 dated 26<sup>th</sup> Aug 2017 ( renewed upto 14<sup>th</sup> Jun 2040).</p> <p>Mining operations are being carried out as per the Modified Mining Plan approved by IBM vide Letter No, AP/NLG/MP/Lst-3/Hyd dated 24<sup>th</sup> Aug, 2015, valid up to 31<sup>st</sup> Mar, 2020.</p>
xlii.	'Consent to Operate' shall be obtained from APPCB before starting enhanced production from the mine.	'Consent to Operate' has been obtained from APPCB before starting partial enhancement of production from the Mine and the Plant . For the balance enhancement of production from the Mine & the Plant, 'Consent to Operate' will be obtained from Telangana State Pollution Control Board before commencement of the same.
xliii.	Rehabilitation and Resettlement Plan for the project affected population including tribal as per the policy of the State Govt. in consultation with the State Govt. of Andhra Pradesh shall be implemented. compensation paid in any case shall not be less than the norms prescribed under the National Resettlement and Rehabilitation Policy, 2007.	As the proposal is for the expansion of existing facilities, this condition is not applicable.
xliv.	All the safety norms stipulated by the	All the safety norms stipulated by the Director





S.No	Specific Condition	Compliance Status
	Director General, Mine & Safety (DGMS) shall be implemented.	General, Mine & Safety (DGMS) are being adhered to.
xlvi.	Acoustic enclosures shall be provided to control noise wherever necessary, Mine machine shall be provided with silencers. Noise shall also be controlled from cooler fans, compressor house, and cement mill and raw mill, cement plant and drilling machines, excavator, blasting at mine site using appropriate noise control measures.	<p><b><u>Mine</u></b></p> <p>Mine Equipment (Excavators, Drilling Machines) / vehicles have been provided with silencers. Controlled blasting is being ensured to contain noise levels. Good maintenance of Mining Machinery and Vehicles is also being ensured. Greenbelt has been developed along the boundary of Mining Lease Area.</p> <p><b><u>Plant &amp; CPP</u></b></p> <p>Appropriate Noise Control Measures like Silencer, acoustic enclosures etc., have been provided for Cooler Fans, Compressor, Turbine etc., Greenbelt has been developed along the boundary of Plant Area. Good maintenance of the Equipment &amp; Machinery is being ensured.</p>
xlvi.	A separate budget shall be kept for the occupational health surveillance within and outside the campus in the nearby villages.	<p>The occupational health surveillance is being carried out regularly from the budget allocated for the same.</p> <p>The health care activities in the nearby villages are being carried out from the CSR Budget.</p>
xlvi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement Plants shall be implemented.	The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement Plants have been complied with except for the generation of power using hot gases from the Kiln. As the hot gases are used for removing the moisture from the raw materials in the Raw Mill, the insufficient heat energy available in the spent gases can not be used for power generation.
xlvi.	The company shall comply with the commitments made during public hearing held on 9 <sup>th</sup> June, 2009 and a separate budget shall be allocated for implementing the same and information submitted to the Ministry's	<p>The commitments made during Public Hearing are being implemented from the budget allocated.</p> <p>The details of compliance have been submitted to Regional Office of MoEF &amp;CC, Bangalore.</p>





S.No	Specific Condition	Compliance Status
	Regional Office at Bangalore,	Public Liability Insurance has been taken which is valid till 31 <sup>st</sup> Aug, 2018 (Policy No 431100/48/2018/1452).

## II. GENERAL CONDITIONS

S.No	General Condition	Compliance Status
i	The project authority shall adhere to the stipulations made by Andhra Pradesh Pollution Control Board (APPCB) and State Government	The stipulations of Telangana State Pollution Control Board (TSPCB) and State Government are being complied with.
ii	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	No further expansion or modification of the plant will be carried out without prior approval of MoEF & CC.
iii	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the A.P. Pollution Control Board, At no time, the particulate emissions from the Cement Plant shall exceed APPCB limit. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shut down automatically.	The Installation of RABH/ESP/ Pulse Jet Bag Filters for the point sources of emission, Use of low Ash and low Sulphur fuels and Use of low NOx Burners ensure that the particulate matter and gaseous emissions from various units are within the standards prescribed by the Telangana State Pollution Control Board.  Interlocking facility has been provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit shuts down automatically.
iv	Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities, Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with APPCB and report submitted to the APPCB quarterly and to the Ministry's Regional Office at Bangalore half-yearly.	Ambient Air Quality and Ambient Noise Levels are within the standards stipulated by the authority.  Ambient Air Quality, Stack Emissions and Ambient Noise levels are being monitored by the third party regularly and the reports are being submitted to the TSPCB on a monthly basis and to the Ministry's Regional Office at Chennai on a half-yearly basis.
v	The company shall undertake eco-development measures including	The eco development measures like rain water harvesting, energy and water conservation





S.No	General Condition	Compliance Status
	community welfare measures in the project area.	initiatives are being taken up. The community welfare measures are also being carried out in and around the project site. Rain water harvesting pits have been constructed inside the plant.
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 Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	By providing noise control measures like silencers, acoustic enclosures etc, for all the sources of noise generation , developing greenbelt along the boundary of the Plant & Mine and ensuring good maintenance of Equipment & Machinery , the overall noise levels in and around the Plant & Mine Area are controlled and maintained well within the standards 85 dB(A).  The ambient noise levels are conforming to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dB(A) (day time) and 70 dB(A) (night time).
vii	Proper housekeeping shall be taken up. Regular annual medical examination of all the employees shall be carried out from the occupational health point of view and records maintained.	Good House Keeping is being ensured. Paved /Concrete Roads, Cleaning of roads with Road Sweeping machines, help to keep the place clean.  Medical examination is being carried out once in a year for all the employees and records are being maintained.
viii	A separate environmental management cell to carry out various management and monitoring functions shall be Set up under the control of Senior Executive.	A separate Environment Management cell is functioning under a Senior Executive.  For carrying out Environmental Monitoring, the services of M/s Global Enviro Lab, Hyderabad are being utilized.
ix	Occupational health surveillance programme shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.	Occupational health surveillance programme, which includes lung function analysis test (pulmonary function) , eye test, audiometric test, are being carried out once in year and records are being maintained.
x	Adequate funds shall be earmarked towards the total capital cost and recurring cost/annum for	Funds have been earmarked towards the total capital cost and recurring cost for installation of environmental pollution control measures





S.No	General Condition	Compliance Status
	environmental pollution control measures and shall be suitably used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	and for the implementation of the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided are not being diverted for any other purpose.
xii	The company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care crèche etc, The housing may be in the form of temporary structures to be removed after the completion of the project.	A part of the project has been completed. For this, the facilities provided in the form of temporary structures for the construction labourers had been removed. The same practice will be ensured for the balance project work also.
xiii	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila 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 web site of the company by the proponent.	The copy of Environmental Clearance Letter had been sent to Gudimalkapuram Panchayat, and the local NGO and also uploaded in the company website.
xiv	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, the respective Zonal Office of CPCB and the APPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral	<p>The 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) are being submitted to the Regional Office of MoEF &amp;CC, Chennai, the Zonal Office of CPCB and the TSPCB.</p> <p>The level of PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> in the ambient and PM, SO<sub>2</sub> and NO<sub>x</sub> levels in the stack emissions are being monitored and displayed near the main gate of the company in the public domain.</p>





S.No	General Condition	Compliance Status
	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.	
xv	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 OPOB and the APPCO. The Regional Office of this Ministry at Bangalore / CPCB / APPCB shall monitor the stipulated conditions.	The 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) are being submitted to the Regional Office of MoEF &CC, Chennai, the Zonal Office of CPCB and the TSPCB.
xvi	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 Regional Office of the MoEF at Bangalore by e-mail.	<p>The Environmental Statement for the Plant and Mine for the year 2017-18 in Form V was submitted on 28<sup>th</sup> Sep 2018 to Regional Office of MoEF &amp;CC, Chennai and Telangana Pollution Control Board.</p> <p>The Environmental Statements are being sent by email to Regional Office of MoEF &amp; CC, Chennai and also uploaded in the Company's website.</p>
xvii	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 APPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfornc.in">http://envfornc.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at	The advertisements published in news papers informing the public that the project has been accorded environmental clearance by the Ministry of Environment & Forest and copies of the clearance letter are available with the APPCB and may also be seen at website of the Ministry of Environment and Forests, i.e., <a href="http://envfornc.in">http://envfornc.in</a> . The copy of the advertisements had been submitted to the Regional Office of MoEF, Bangalore.





S.No	General Condition	Compliance Status
	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.	
xviii	Project authorities shall inform the Regional Office at Bangalore 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.	As internally accrued funds have been invested for the expansion project, this condition is not applicable.

for Anjani Portland Cement Limited

*N Venkat Raju*

N Venkat Raju

Joint President (Works)





**Anjani Portland Cement Limited.**  
Chintalapalem, Gudimalkapuram, Suryapet

**Environmental Monitoring Reports**

**Stack Monitoring Data from April 2018 to September 2018: ( values are in mg/Nm<sup>3</sup>)**

S.No	Location	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Max	Min	Avg	Standard Limit
1	Kiln-I	27	24	21	NIO	18	NIO	27.0	18.0	22.5	30
2	Coal Mill-I	15	13	9	NIO	12	NIO	15.0	9.0	12.3	30
3	Cement Mill-I	30	32	31	NIO	29	NIO	32.0	29.0	30.5	30
4	Cooler-I	22	21	17	NIO	19	NIO	22.0	17.0	19.8	30
5	Raw Mill-I	28	25	28	25	24	24	28.0	24.0	26.0	30
6	Cement Mill-II	21	19	18	21	17	27	27.0	17.0	19.2	30
7	Kiln-II	29	25	22	17	21	26	29.0	17.0	22.8	30
8	Cooler-II	44	42	39	43	28	29	44.0	28.0	39.2	30
9	Coal Mill-II	25	22	25	36	27	29	36.0	22.0	27.0	30
10	Cement Mill-III	31	29	26	19	24	28	31.0	19.0	25.8	30

NIO:-Not in Operation

**Ambient Air Quality Monitoring Data from April 2018 to September 2018: ( values are in µg/m<sup>3</sup>)**

S.No	Location	Parameter	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Max	Min	Avg	Standard Limit
1	Security Gate	PM 10	54	57	54	49	51	48	57	48	52.2	100
		PM 2.5	33	35	32	28	29	27	35	27	30.7	60
		SO <sub>2</sub>	8	5	7	9	10	6	10	5	7.5	80
		Nox	12	9	10	14	14	11	14	9	11.7	80
2	Near Crusher-II	PM 10	59	62	59	62	59	54	62	54	59.2	100
		PM 2.5	37	38	35	31	33	31	38	31	34.2	60
		SO <sub>2</sub>	6	8	10	11	7	8	11	6	8.3	80
		Nox	10	11	14	16	12	15	16	10	13.0	80
3	Near Kiln-I Stack	PM 10	61	59	62	57	62	59	62	57	60.0	100
		PM 2.5	34	36	37	35	27	29	37	27	33.0	60
		SO <sub>2</sub>	7	7	6	4	11	10	11	4	7.5	80
		Nox	15	14	12	13	16	13	16	12	13.8	80





# Noise Monitoring Data from April 2018 to September 2018: ( values are in dB(A))

S.No	Location		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Max	Min	Avg	Standa Limit
1	Near Security	Day	55	57	59	56	54	52	59	52	55.3	75
		Night	48	51	54	52	51	49	54	48	51.0	70
2	Near Cement Mill	Day	65	68	67	64	63	61	68	61	64.7	75
		Night	61	63	63	61	59	54	63	54	60.2	70
3	Near Kiln	Day	73	72	73	74	72	70	74	70	72.3	75
		Night	67	67	68	69	68	66	69	66	67.5	70
4	Near D.G Set Area	Day	71	73	71	69	67	69	73	67	70.0	75
		Night	65	65	66	63	62	58	66	58	63.2	70
5	Near Canteen	Day	56	59	56	54	53	52	59	52	55.0	75
		Night	52	54	51	50	49	48	54	48	50.7	70
6	Near Compressor House	Day	67	68	67	66	65	68	68	65	66.8	75
		Night	64	63	62	61	60	57	64	57	61.2	70
7	Near Office	Day	61	65	64	62	61	56	65	56	61.5	75
		Night	53	58	57	56	57	52	58	52	55.5	70
8	Near Limestone Crusher	Day	69	67	68	67	66	64	69	64	66.8	75
		Night	65	63	61	60	59	58	65	58	61.0	70
9	Near Raw Mill	Day	71	70	72	71	70	69	72	69	70.5	75
		Night	67	67	69	67	66	61	69	61	66.2	70
10	Near Guest House	Day	58	62	65	62	61	54	65	54	60.3	75
		Night	50	54	58	53	52	49	58	49	52.7	70





**Anjani Limestone Mining**  
**Anjani Portland Cement Limited.**  
Chintalapalem, Gudimalkapuram, Suryapet

**Environmental Monitoring Reports**

**Ambient Air Quality Monitoring: April 2018 to September 2018**

S.No	Location	Month	Parameter $\mu\text{g}/\text{m}^3$				mg/m <sup>3</sup>
			PM 10	PM 2.5	SO <sub>2</sub>	Nox	CO
	<b>Pit-1</b>						
1	Near Mine office	June	60	28	9.6	15	1.1
		September	62	29	9.2	13	0.9
2	Near Loading Area	June	67	32	12	19	1.3
		September	69	34	11	16	1.1
3	Near Drilling Area	June	63	30	10	17	1.2
		September	66	32	9.7	14	1.0
4	Near Haul Road	June	58	27	9.1	13	1.0
		September	60	28	8.8	11	0.8
5	Gudi malkapuram Village	June	42	20	8.1	10	0.5
		September	44	24	7.7	9.6	0.3
6	Chintalapalem Village	June	44	21	7.5	9	0.4
		September	47	22	7.2	8.6	0.2
7	Kothagudem Village	June	40	19	6.7	9.0	0.5
		September	43	20	6.5	8.5	0.4
8	Yerragunta Village	June	39	18	6.2	8.0	0.4
		September	41	19	6.0	7.9	0.2
Standard Limit			100	60	80	80	2.0

**Noise Monitoring Data: April 2018 to September 2018**

S.No	Location	Month	Noise Level dB(A)
	<b>Pit- 1</b>		
1	Haul Road	June	54
		September	56
2	Breaker Machine	June	73
		September	69
3	Drilling Area	June	69
		September	67
4	Mine office	June	55
		September	53
5	Shovel	June	67
		September	61





M/s. ANJANI PORTLAND CEMENT LIMITED				
AUTOMATIC WATER LEVEL READINGS				
PEIZOMETER - 1				
LOCATION: NEAR BORE HOLE NUMBER CD - 58				
CHINTALAPALEM (V&M), SURYAPET DISTRICT, TELANGANA STATE, PIN - 508 246				
Apr-2018 to Sep-2018				
DATALOG GER ID	DATE/TIME	WATER LEVEL (mWC)	TEMPERATURE (degC)	BAROMETRIC (hPa)
BE151	1-Apr-2018	-19.241	30.8	997.700
BE151	8-Apr-2018	-17.893	30.8	999.000
BE151	15-Apr-2018	-18.806	30.8	997.800
BE151	22-Apr-2018	-19.233	30.8	996.400
BE151	29-Apr-2018	-19.571	30.8	997.200
BE151	1-May-2018	-19.650	30.8	994.5
BE151	8-May-2018	-19.980	30.8	995.2
BE151	15-May-2018	-19.900	30.8	998.8
BE151	22-May-2018	-20.413	30.8	994.1
BE151	29-May-2018	-20.775	30.8	990.5
BE151	1-Jun-2018	-20.955	30.8	993.2
BE151	8-Jun-2018	-21.322	30.8	991.4
BE151	15-Jun-2018	-21.574	30.8	991.5
BE151	22-Jun-2018	-21.974	30.8	993.2
BE151	29-Jun-2018	-22.588	30.8	992.8
BE151	1-Jul-2018	-22.602	30.8	994.1
BE151	8-Jul-2018	-22.554	30.8	989.4
BE151	15-Jul-2018	-22.552	30.8	989.2
BE151	22-Jul-2018	-22.579	30.8	991.9
BE151	29-Jul-2018	-22.590	30.8	993.0
BE151	1-Aug-2018	-22.594	30.8	993.4
BE151	8-Aug-2018	-22.561	30.8	990.1
BE151	15-Aug-2018	-22.556	30.8	989.7
BE151	22-Aug-2018	-22.607	30.8	994.6
BE151	29-Aug-2018	-22.611	30.8	995.0
BE151	1-Sep-2018	-22.600	30.8	995.0
BE151	8-Sep-2018	-22.600	30.8	994.8
BE151	15-Sep-2018	-22.600	30.8	997.7
BE151	22-Sep-2018	-22.600	30.8	994.6
BE151	29-Sep-2018	-22.700	30.8	999.4
Min		-22.700		
Max		-17.893		
Avg		-21.426		





PEIZOMETER - 2				
LOCATION: BACK SIDE TO WORK SHOP				
Apr-2018 to Sep-2018				
DATALOG GER ID	DATE/TIME	WATER LEVEL (mWC)	TEMPERATURE (degC)	BAROMETRIC (hPa)
BE152	1-Apr-2018	-8.804	28.9	1001.5
BE152	8-Apr-2018	-10.518	28.9	1002.1
BE152	15-Apr-2018	-10.826	28.9	1000.6
BE152	22-Apr-2018	-11.166	28.8	1000.0
BE152	29-Apr-2018	-10.558	28.8	1000.5
BE152	1-May-2018	-10.291	28.8	997.9
BE152	8-May-2018	-10.269	28.8	998.5
BE152	15-May-2018	-10.269	28.8	1002.0
BE152	22-May-2018	-10.269	28.7	997.1
BE152	29-May-2018	-10.269	28.8	993.7
BE152	1-Jun-2018	-10.269	28.8	996.2
BE152	8-Jun-2018	-10.269	-99.9	994.1
BE152	15-Jun-2018	-10.959	28.8	998.2
BE152	22-Jun-2018	-10.845	31.1	987.0
BE152	29-Jun-2018	-15.932	28.8	996.5
BE152	1-Jul-2018	-15.947	28.8	998.0
BE152	8-Jul-2018	-15.902	28.9	993.5
BE152	15-Jul-2018	-15.902	28.8	993.5
BE152	22-Jul-2018	-15.927	28.8	996.1
BE152	29-Jul-2018	-15.927	28.9	996.1
BE152	1-Aug-2018	-15.936	28.8	996.9
BE152	8-Aug-2018	-15.907	28.9	994.1
BE152	15-Aug-2018	-15.905	28.9	993.9
BE152	22-Aug-2018	-15.959	27.8	999.2
BE152	29-Aug-2018	-15.961	28.9	999.4
BE152	1-Sep-2018	-16.000	28.9	999.9
BE152	8-Sep-2018	-16.000	28.9	999.5
BE152	15-Sep-2018	-16.000	28.9	1002.3
BE152	22-Sep-2018	-16.000	28.9	999.0
BE152	29-Sep-2018	-16.000	28.9	1003.2
Min		-16.000		
Max		-8.804		
Avg		-13.360		

