

The Additional Principal Chief Conservator of Forests(C)

Ministry of Environment and Forests and Climate Change
Regional Office(SEZ),
1st and IInd Floor, Habdloom export promotion council,
34, Cathedral garden road,
Nungambakkam,
Chennai – 34

Sir,

Sub: MoEF Second Half Yearly (July 2022 to Dec 2022) Compliance-
Reg

Ref: Environmental Clearance Letter.No. J.11015/397/2005-IA-II(M)
dated 13.01.06

With Reference to the above subject, we are herewith submitting the following Annexure in respect of Perianagular Limestone Mine ML 1.

1. Status of Environmental Clearance compliance conditions- (Annexure-1)
2. Environmental Monitoring Reports for the Period July 2022 to Dec 2022 - (Annexure-2)
3. Social Welfare activities-(Annexure-3)
4. Afforestation Details - (Annexure - 4)

Hence,We request your good office to kindly acknowledge the receipt of the compliance.

Thanking you

**Yours faithfully,
For Dalmia Cement (Bharat) Limited,**



Gopi Rajesh Kumar T.C

**Gopi Rajesh Kumar T.C
Senior Manager (Mines)**

Encl: As above

Dalmia Cement (Bharat) Limited

Annexure - 1

Compliance Report on Conditions Issued by MOEF on Perianagalur Limestone Mines vide Lr. No. J.11015/397/2005-IA-II(M) dated 13.01.06

S.No	Conditions	Compliance
A	Specific Conditions	
(i)	Prior approval of the CGWA shall be taken for mining below water table.	Approval from the CGWA is obtained. Renewal application submitted to State Ground and Surface water Resource data centre, Tharamani, Chennai, which is under active consideration.
(ii)	Topsoil, if any, should be stacked properly with proper slope at earmarked site(s) with adequate measures and should be used for greenbelt development.	There is no Topsoil in the area.
(iii)	<p>Check dams and siltation ponds of appropriate size should be constructed wherever required to arrest silt and sediment flows within the lease area. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted and maintained.</p> <p>Garland drain (size, gradient & length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains.</p>	<p>Garland Drains are formed around the dumps to arrest the silt. All the water collected inside the pit is channelized to the sump. The sump is designed in such a way that safety margin over the previous rainfall data. The rainwater & seepage water collected in the mine sump is allowed to settle in the sump. Hence the mine sump acts as a settling tank.</p> <p>The water collected inside the pit is used for haul roads/greenbelt development.</p>
(iv)	Drills should be wet operated or with dust extractors.	Water Mist Dust Suppression system is provided in all the drilling equipment and wet drilling is being practiced.

(v)	Controlled blasting should be practiced and only during daytime. The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.	Blasting is carried out with Milli – Second Delay Detonators & Non Electric Initiation System of Detonators to reduce the noise and ground vibrations. Blasting is not carried out during the night time.
(vi)	Crusher should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, haulage roads, transfer points, etc.	Crusher is situated at the plant site located at 40 Kms away from the mines. The crusher is operated with bag filters to arrest the fugitive dust emissions from crushing operations, transfer points etc., On haulage roads water sprinkling is being carried out.
(vii)	Water sprinkling arrangements to control the fugitive dust generation from the haulage roads and to the crusher.	Water sprinkling on haul roads is done regularly to suppress the dust.
(viii)	Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral ore. The vehicles should be covered with tarpaulin and should not be overloaded.	Proper periodical maintenance practice is being followed for equipments and tippers used in mining operations. The transportation vehicles are loaded upto the body level and covered with tarpaulin during the transport.
(ix)	Progressive Mine Closure Plan shall be implemented. The higher benches of the balance excavated void/mine pit of an area of 65.79 ha. which is not being back filled and is being converted into a water reservoir, shall be terraced and plantation done to stabilize the slopes. Peripheral fencing shall be done along the excavated area.	At the end of mine life, the mined out area will be converted into a water storage reservoir as per the approved mining plan. Fencing is done all along the boundary of the area.
(x)	Plantation should be developed in an area of 3.29 ha. by planting the native species around the ML boundary, roads and undisturbed area etc., in consultation with the local DFO/Agriculture department. The density of the trees should be around 2000 plants per hectare.	Plantation are developed all along the ML boundary and roads.
(xi)	A final mine closure Plan along with details of Corpus Fund should	Final mine closure Plan along with details of Corpus Fund will be

	be submitted to the Ministry of Environment & Forests 5 years prior to closure of mine for approval of the ministry.	submitted to the Ministry of Environment & Forests 5 years prior to closure of mine for approval of the ministry.
(xii)	Consent to operate should be obtained from State Pollution Control Board expanding mining activities.	Consent to Operate obtained from State Pollution Control Board.
B	General Conditions	
(i)	No change in technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Mechanised method of Mining is followed and there is no change in mining technology.
(ii)	No change in the calendar plan including excavation, quantum of limestone, waste / OB dumps should be made.	The quantity of limestone is restricted as per the plan.
(iii)	Ambient air quality-monitoring stations should be established in the core zone as well as buffer zone for SPM and RPM monitoring. Location of the ambient air quality stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and the frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Ambient Air quality readings are taken from the stations already established in the core zone and buffer zone as per our REIA/EMP approved by your office.
(iv)	Data on air quality should be regularly submitted to the Ministry including its Regional Office at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months.	The season wise data on ambient air quality collected are submitted to the MoEF, Regional Office at Bangalore and the State Pollution Control Board once in six months.
(v)	Adequate measures for control of fugitive emissions should be undertaken such as water spraying arrangements on haul roads, loading and unloading points and transportation of minerals, etc. Fugitive dust emissions from all sources should be regularly	Water sprinkling is being done on haul roads regularly. Dust emission is monitored every fortnightly and data maintained.

	monitored and data recorded properly.	
(vi)	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM etc., should be provided with ear plugs/muffs.	Noise level is maintained well below 85 dBA. Periodical monitoring is carried out by TNPCB on yearly basis. Persons are provided with PPE.
(vii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from the Workshop.	The workshop water is properly collected in the up flow filters before discharge, in order to trap the oil and grease in the effluent. The water is then used for afforestation purposes.
(viii)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically and corrective measures taken, if required.	All our mine employees are provided with protective equipments such as dust mask, earplugs, shoes, helmets etc. Periodical Medical Examination is done for all our Mine employees regularly. Training on Safety and Health aspects is given at regular intervals for all our Mine Employees as per Mines Vocational training Rules 1966.
(ix)	The funds earmarked for environmental protection measures should be kept in separate account and not diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment & Forests.	The fund earmarked is spent for the Environmental Protection measures only.
(x)	The project authorities should inform to the Regional Office located at Bangalore regarding date of financial closures and final	The final approval of the project was informed to the MoEF, Regional Office at Bangalore.

	approval of the project by the concerned authorities and the date of start of land development work.	The fund required for the project was managed from the resources internally from the company. Hence the date of Financial Closure is not applicable.
(xi)	The Regional Office of this Ministry located at Bangalore shall monitor compliance of the stipulated environmental conditions. The project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.	-
(xii)	A copy of the clearance letter should be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	A copy of the clearance letter was given to Panchayat as advised.
(xiii)	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's/Tahsildar's office for 30 days.	-
(xiv)	The Project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within 7 days of issuance of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment & Forests at http://envfor.nic.in .	The Advertisement was given in two local newspapers as advised by you and the copy of the same was submitted to your Regional office.

PERIYANAGULAR LIMESTONE MINE					
(General condition No. B (iv) of environmental clearance letter No. J.11015/397/2005-IA-II(M) dated 13.01.2006)					
AIR QUALITY - PERIANAGULAR LIMESTONE MINE SECOND HALF YEARLY REPORT					
(July 2022 to Dec 2022)					
Abstract of Ambient Air quality data for the period July 2022 to September 2022					
Station Name	PM - 10 ($\mu\text{g}/\text{m}^3$)	PM - 2.5 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO ($\mu\text{g}/\text{m}^3$)
No. of Observations	8	8	8	8	8
Periyangalur Mines	50.47	16.9	6.04	16.24	<0.1
Periyangalur Village	53.95	21.41	6.71	17.36	<0.1
Kopliankudikkadu Village	54.76	21.4	7.8	17.69	<0.1
Reddipalayam Village	51.41	20.26	6.65	16.65	<0.1
Pudupalaiyam Village	56.61	22.34	6.77	18.14	<0.1
Hastinapuram Village	61.06	24.11	7.49	19.63	<0.1
Valajanagaram Village	53.01	20.78	6.59	16.97	<0.1
Kallankurichi Village	49.16	19.33	6.65	15.74	<0.1
NAAQ Norms*	100	60	80	80	40 milligram /cu.m
(Oct 2022 to Dec 2022)					
Abstract of Ambient Air quality data for the period October 22 to December 22					
Station Name	PM - 10 ($\mu\text{g}/\text{m}^3$)	PM - 2.5 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO ($\mu\text{g}/\text{m}^3$)
No. of Observations	8	8	8	8	8
Periyangular Mines	46.8	15.79	5.64	15.06	<0.1
Perianagular Village	50.64	19.95	6.26	16.27	<0.1
Kopilankudikkadu Village	52.65	20.68	7.48	16.9	<0.1
Kallankurichi Village	45.62	17.98	6.2	14.66	<0.1
Reddipalayam Village	45.3	17.66	5.88	14.57	<0.1
Pudupalaiyam Village	50.04	19.53	5.94	16.06	<0.1
Hastinapuram Village	53.18	20.89	6.46	17.08	<0.1
Valajanagaram Village	48.47	19.22	6.03	15.58	<0.1
NAAQ Norms*	100	60	80	80	40 milligram /cu.m

Annexure 3

Conducted veterinary camp in Srinivasapuram

சீனிவாசபுரத்தில்

மாடுகளுக்கு தோல் கழலை நோய் தடுப்பூசி முகாம்

அரியலூர், ஜன.5: அரியலூர் மாவட்டம் கால்நடை பராமரிப்புத்துறை சார்பில் சீனிவாசபுரம் ஊராட்சியில் மாடுகளுக்கு கான தோல் கழலை நோய் தடுப்பூசி முகாம் நேற்று நடைபெற்றது. இந்த முகாமை ஊராட்சி மன்ற தலைவர் கலைச்செல்வி நெடுஞ்செழியன் தொடங்கி வைத்தார். தெற்கு மற்றும் கிழக்கு சீனிவாசபுரம் பகுதியை சேர்ந்த 42 மாடுவளர்க்கும் விவசாயிகள் தங்களுடைய 95 கன்றுகள், 63 இடேரிகள் மற்றும் கறவை மாடுகள் உள்ளிட்ட 300 கால்நடைகளை கொண்டு வந்து

தோல் கழலை நோய் தடுப்பூசி செலுத்திக்கொண்டனர். இந்த முகாமில் கடுகூர் கால்நடை மருத்துவர்குமார் மற்றும் கால்நடை ஆய்வாளர் மாலதி உள்ளிட்ட மருத்துவ குழுவினர் மாடுகளுக்கு தடுப்பூசி செலுத்தினர். முகாமில் கலந்து கொண்ட மாடு வளர்க்கும் விவசாயிகளுக்கு தோல் கழலை நோய் பற்றிய விழிப்புணர்வு கையேடுகள் வழங்கப்பட்டது. முகாம் முடிவில் சீனிவாசபுரம் ஊராட்சி மன்ற துணைத் தலைவர் கலைச்செல்வி ரவிச்சந்திரன் நன்றி கூறினார்.



கால்நடை பராமரிப்புத்துறை சார்பில் சீனிவாசபுரம் ஊராட்சியில் மாடுகளுக்கான தோல் கழலை நோய் தடுப்பூசி முகாம் நடைபெற்றது.



Conducted village veterinary camp at Kallankurichi





Annexure 4

Details of Green Belt For Periyagalur Limestone Mines				
Year	No. of Saplings		Extent (Ha)	
	within lease	outside lease	within lease	outside lease
Total as on 30.06.2022	7932	1292	6.6	1
Upto 31.12.2022	250	0	0.2	0
Total	8182	1292	6.8	1

AFFORESTATION DONE IN AMINABAD & KHAIRULABAD LIMESTONE MINES





**Compliance Report on Conditions Issued by MOEF on Perianagalur Limestone
Mines vide Lr. No. J.11015/397/2005-IA-II(M) dated 13.01.06**

S.No	Conditions	Compliance
A	Specific Conditions	
(i)	Prior approval of the CGWA shall be taken for mining below water table.	Approval from the CGWA is obtained.
(ii)	Topsoil, if any, should be stacked properly with proper slope at earmarked site(s) with adequate measures and should be used for greenbelt development.	There is no Topsoil in the area
(iii)	<p>Check dams and siltation ponds of appropriate size should be constructed wherever required to arrest silt and sediment flows within the lease area. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted and maintained.</p> <p>Garland drain (size, gradient & length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains.</p>	<p>Garland Drains are formed around the dumps to arrest the silt. All the water collected inside the pit is channelized to the sump. The sump is designed in such a way that safety margin over the previous rainfall data. The rainwater & seepage water collected in the mine sump is allowed to settle in the sump. Hence the mine sump acts as a settling tank.</p> <p>The water collected inside the pit is used for haul roads/greenbelt development</p>
(iv)	Drills should be wet operated or with dust extractors.	Water Mist Dust Suppression system is provided in all the drilling equipment and wet drilling is being practiced.
(v)	Controlled blasting should be practiced and only during daytime. The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.	Blasting is carried out with Milli – Second Delay Detonators & Non Electric Initiation System of Detonators to reduce the noise and ground vibrations. Blasting is not carried out during the night time.
(vi)	Crusher should be operated with	Crusher is situated at the plant site

	high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, haulage roads, transfer points, etc.	located at 40 Kms away from the mines. The crusher is operated with bag filters to arrest the fugitive dust emissions from crushing operations, transfer points etc., On haulage roads water sprinkling is being carried out.
(vii)	Water sprinkling arrangements to control the fugitive dust generation from the haulage roads and to the crusher.	Water sprinkling on haul roads is done regularly to suppress the dust.
(viii)	Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral ore. The vehicles should be covered with tarpaulin and should not be overloaded.	Proper periodical maintenance practice is being followed for equipments and tippers used in mining operations. The transportation vehicles are loaded upto the body level and covered with tarpaulin during the transport.
(ix)	Progressive Mine Closure Plan shall be implemented. The higher benches of the balance excavated void/mine pit of an area of 65.79 ha. which is not being backfilled and is being converted into a water reservoir, shall be terraced and plantation done to stabilize the slopes. Peripheral fencing shall be done along the excavated area.	At the end of mine life, the mined out area will be converted into a water storage reservoir as per the approved mining plan. Fencing is done all along the boundary of the area.
(x)	Plantation should be developed in an area of 3.29 ha. by planting the native species around the ML boundary, roads and undisturbed area etc., in consultation with the local DFO/Agriculture department. The density of the trees should be around 2000 plants per hectare.	Plantation are developed all along the ML boundary and roads.
(xi)	A final mine closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years prior to closure of mine for approval of the ministry.	Final mine closure Plan along with details of Corpus Fund will be submitted to the Ministry of Environment & Forests 5 years prior to closure of mine for approval of the ministry.
(xii)	Consent to operate should be obtained from State Pollution	Consent to Operate obtained from State Pollution Control Board.

	Control Board expanding mining activities.	
B	General Conditions	
(i)	No change in technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Mechanised method of Mining is followed and there is no change in mining technology.
(ii)	No change in the calendar plan including excavation, quantum of limestone, waste / OB dumps should be made.	The quantity of limestone is restricted as per the plan.
(iii)	Ambient air quality-monitoring stations should be established in the core zone as well as buffer zone for SPM and RPM monitoring. Location of the ambient air quality stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and the frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Ambient Air quality readings are taken from the stations already established in the core zone and buffer zone as per our REIA/EMP approved by your office.
(iv)	Data on air quality should be regularly submitted to the Ministry including its Regional Office at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months.	The season wise data on ambient air quality collected are submitted to the MoEF, Regional Office at Bangalore and the State Pollution Control Board once in six months.
(v)	Adequate measures for control of fugitive emissions should be undertaken such as water spraying arrangements on haul roads, loading and unloading points and transportation of minerals, etc. Fugitive dust emissions from all sources should be regularly monitored and data recorded properly.	Water sprinkling is being done on haul roads regularly. Dust emission is monitored every fortnightly and data maintained.
(vi)	Adequate measures should be taken for control of noise levels below 85 dBA in the work	Noise level is maintained well below 85 dBA. Periodical monitoring is carried out by

	environment. Workers engaged in blasting and drilling operations, operations of HEMM etc., should be provided with ear plugs/muffs.	TNPCB on yearly basis. Persons are provided with PPE.
(vii)	Industrial waste water (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from the Workshop.	The workshop water is properly collected in the up flow filters before discharge, in order to trap the oil and grease in the effluent. The water is then used for afforestation purposes..
(viii)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically and corrective measures taken, if required.	All our mine employees are provided with protective equipments such as dust mask, earplugs, shoes, helmets etc. Periodical Medical Examination is done for all our Mine employees regularly. Training on Safety and Health aspects is given at regular intervals for all our Mine Employees as per Mines Vocational training Rules 1966.
(ix)	The funds earmarked for environmental protection measures should be kept in separate account and not diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment & Forests.	The fund earmarked is spent for the Environmental Protection measures only.
(x)	The project authorities should inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The final approval of the project was informed to the MoEF, Regional Office at Bangalore. The fund required for the project was managed from the resources internally from the company. Hence the date of Financial Closure is not applicable.

(xi)	The Regional Office of this Ministry located at Bangalore shall monitor compliance of the stipulated environmental conditions. The project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	-
(xii)	A copy of the clearance letter should be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	A copy of the clearance letter was given to Panchayat as advised.
(xiii)	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's/Tahsildar's office for 30 days.	-
(xiv)	The Project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within 7 days of issuance of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment & Forests at http://envfor.nic.in .	The Advertisement was given in two local newspapers as advised by you and the copy of the same was submitted to your Regional office.