



Through: Courier Service

Ref: OCL/ENV/President (Manufacturing)/2023-24/712

Date: 10.06.2023

To

Director-IA Division, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi - 110 003.

Respected Sir,

Sub: All EC compliance report of Green field Cement Plant (Lime Stone Mine 3.0 MTPA) at Chittapur, Gulbarga District by M/S. Orient Cement Ltd:-Reg

Ref no: F. No. J-11015/60/2011-IA-II (M) Dated on 22.09.2014.

As mentioned in the above cited subject & vide Ref-(1) of our EC condition, M/s Orient Cement Ltd, is hereby submitting your good self the point wise half yearly EC compliance of Mines for the period October -2022 to March-2023.

Kindly consider the compliance report & oblige.

Thanking You

Yours faithfully

For Orient Cement Limited

Satyabrata Sharma

President-Manufacturing

Olc - Environment pept

- The Additional Principal Chief Conservator of Forests (C) Ministry of Environment, Forests & Climate change, 4th Floor, E & F Wing, Kendriya Sedan Koramangala, Bangalore-560 034
- Secretary to Government
 Department of Ecology & Environment
 Government of Karnataka
 7th floor, Multistoried Building,
 Bangalore 560001
- Chairman,
 Central Pollution Control Board,
 Parivesh Bhawan, CBD-cum-Office Complex,
 East Arjun Nagar,
 New Delhi 110 032
- The Member Secretary,
 Karnataka State Pollution Control Board,
 # 49, 4th & 5th floor,
 Parisara Bhavana,
 Church Street,
 Bangalore 560 001
- 5. Environmental officer, Karnataka State Pollution Control Board Regional office, Kalaburagi, Plot No. 12/2, Sy. No:19/P, Mansafdar Layout, M.G Road, Santraswadi, Kalaburgi-585 101

Half year Compliance Report

NAME OF PROJECT: ITAGI LIMESTONE MINE OF M/s ORIENT CEMENT LIMITED

MOEF LETTER NO: (EC) F.NO, J-11015/60/2011-IA (M) dated: 22/9/2014

01.10.2022 to 31.03.2023

S.No	EC Conditions	Compliance status.
Specia	fic Condition	
j	Environmental clearance for mining shall be for Pit-1 (238.80ha) and Pit-2 (42.10ha) Mining lease may be executed for the area for which EC is accorded. The EC would be subject to project proponent fulfilling the requirement under the provisions of MMDR Act, 1957 and MCR 1960 with regard to reduced mine lease area.	DMG, Bangalore has granted the mining lease for 519 Ha inclusive of pit-3. The amended EC vide letter No.(EC) F.NO, J-11015/60/2011-IA-II (M) dated: 28/06/2022, inclusive of Pit No.3 as no mining zone submitted to DMG vide letter No. OCEM/CHIT/MINES/02, 06th July 2022.
ii	Project Proponent shall carry out only the plantation in the safety area of 500 meters, after spreading topsoil	Condition being Implemented and plantation/Green belt development are being carried out in the safety area of 500 meters, after spreading topsoil.
iii	A safety zone of 500m from any dwelling or habitation will be left out as no mining area and no blasting will be conducted in this zone	A safety zone of 500m from dwelling or habitation or village hutment area has already been left as no mining area and no blasting is being conducted in this zone.
iv	A bund of about 5m height is to be made along the mining lease boundary on the village side with good width of green belt between village and mining area.	A bund of about approx. 5.0 Mtr height has been created around the mining lease boundary on the village side area with good width.
V	Mining will not be done in all sides of Itgi village at one time and will be done in a sequential manner as per mining plan approved by IBM. During these operations all along the safety zone, measures will be taken to prevent air and noise pollution.	Mining is being done in a sequential manner as per Mining Plan approved by IBM. Necessary measures are being taken to prevent air and noise pollution. As a measure of Noise pollution control, Controlled blasting using Nonel system is being carried out to minimize the vibration & noise. To prevent air pollution, M/s OCL has made wet drilling arrangement and dust extractor system provided in drilling machine. Bag filter is provided at crusher to collect dust. Conveyor belts are totally covered with metal hood. Water spray is being done in hopper & on conveyor belts.
vi	The natural streams (nalas) passing through the mining lease area shall not be disturbed.	Condition being followed and natural stream or nala passing through the mining lease area are not being disturbed and in future also will be

	Further, these streams shall be creation of bunds on both sides, if required. The rain water collected in the mining pit shall be pumped out to the water storage in plant area for use and shall not be discharged into any natural stream or nala.	protected. The bank of nala has been protected with dry stone pitching. The collected rain water from mining pit is pumped to the water storage reservoir at plant through pipeline. M/s OCL Chittapur is having pipeline for conveying the collected rain water from the mining pit to the water storage reservoir. Through this pipeline the collected rain water in the mining pit is being pumped out to the water storage reservoir in plant area and will not be discharged to any natural stream or nala.
vii	A long term study with at least one year field data on runoff, rain fall, vegetation disturbance and water flow and drainage in all streams of the catchment will be carried out by reputed Institution and recommendations will be implemented within one year of commencement of mining.	This study has been already carried out by a reputed Government institution Central University of Karnataka, Kalburgi and all the recommendations have been implemented.
viii	Environmental clearance is subject to obtain clearance under the wildlife (Protection) Act, 1972 from the competent authority, if any, as may be applicable to this project.	As the Area does not fall under Forest / Wildlife Sanctuary, obtaining clearance under the wildlife (Protection) Act, 1972 from the competent authority, is not applicable to this project. Kindly exempt this condition.
ix	The project proponent shall obtain Consent to Establish and Consent to Operate from the Karnataka State Pollution Control Board and effectively implement all the conditions stipulated therein.	Consent to Establish and Consent to Operate have been obtained from KSPCB and the Conditions stipulated therein are being effectively implemented.
х	During mining, pollution mitigation measures will be taken up to ensure that the impact on the village and the surrounding area will not occur. Small blasts will be conducted to reduce ground vibrations and noise. Blasted material heaps will be thoroughly wetted before loading to avoid fugitive dust during loading.	Condition being followed and Small blasts are being conducted in order to reduce ground vibrations and noise. Prior to the loading of blasted material heaps, the heaps are being thoroughly wetted to avoid fugitive dust during loading.
xi	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and	Effective safeguard measures have been carried out in the critical areas prone to air pollution. Regular water Sprinkling arrangements through tankers and permanent water sprinkler has been provided to control fugitive dust emission on

PM2.5 such as haul road, loading and unloading point and transfer points. It shall be ensured that ambient air quality parameters conform to the norms prescribed by the central pollution control board in this regard. Main haulage road in the mine will be provided with permanent water sprinklers and other roads will be wetted with tanker fitted water with sprinklers. Crusher and material transfer points will be provided with bag filters and conveyor will be fully covered to avoid air borne dust.

Haulage roads.

All material loading & unloading points have been provided with water sprinklers & water tankers to supress the dust generated.

Crusher and material transfer points have been provided with bag filters.

Crushed limestones are being conveyed to plant by fully covered belt conveyor to avoid air borne dust.

xii Effective safeguard measures such as conditioning of material with water, regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and transfer points. It should be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

Condition is being followed and implemented.

Areas prone to air pollution and areas having high levels of particulate matter are being wetted with water tankers fitted with sprinklers. Permanent water sprinklers are also fitted along the main haulage road.

All the material loading & unloading points have been wetted with water tankers.

Crusher and material transfer points are provided with the bag filters.

Conveyer belt is fully covered to avoid spillage and fugitive dust.

It is also being ensured that the ambient air quality parameters are confirming to the norms prescribed by the Central Pollution Control Board.

Ambient Air Quality Report in $\mu g/m^3$ Mines for the period **October-2022 to March-2023.**

2022-23	PM10	PM2.5	502	NOx	CO
Mining Area	52	16	17	16	ND
Haulage	54	16	17	17	ND
Crushing & Screening	53	16	17	16	ND
Labor Colony/Near Surge bin	52	16	17	16	ND

xiii

Regular monitoring of ground water level and quality shall be carried out in around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times a

Regular monitoring of ground water level and quality are being carried out by establishing a network of existing wells and installing new piezometers as require. Periodic monitoring (at least four times in a year) are being carried out by MoEF&CC recognised & NABL accredited laboratory around the mine lease. The data collected are submitted to the concerned

xiv	year pre-monsoon (April/May), monsoon (August), post monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the ministry of Environment and forests and its Regional office Bangalore, the Central Ground Water Authority and its Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out. The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with Regional	authorities regularly. Recently submitted Report of ground water level & quality vide our letter No. OCL/ENV/Asst.VP(Operation)/2023-24/679 dated 14/04/2023 to Ministry of Environment and forests and its Regional office Bangalore, the Central Ground Water Authority and its Regional Director, Central Ground Water Board. As a suitable conservation measure a reservoir of capacity 5,60,000 Cubic meters has already been developed inside the plant to augment the groundwater. Also, Rainwater harvesting pit with size 50m X
	Director, Central Ground Water Board.	40m with depth 2m has been constructed near south side of the mine lease boundary for ground water recharge.
XV	The Raw material shall be transported through road on 200 dumpers/trucks covered with tarpaulin.	As ours is the captive Limestone mine, no vehicle is being used for transportation of raw materials outside the premises. For internal material transfer, closed conveyors belts are used without needing trucks covered with tarpaulin.
xvi	Appropriate mitigative measures shall be taken to prevent pollution of the Benithora and Kagina river in consultation with the State Pollution Control Board	No water/wastewater is being discharged from our premises to the rivers /nalla. The specified Benithora and Kagina river is situated far away from our premises with an approx. distance of 15-20Km. Anyhow Appropriate mitigative measures have been taken to prevent pollution by providing suitable drains in order to convey rainwater to the natural water bodies without getting mixed
xvii	Setting up of hospital with satisfactory health care facilities for local residents as per the followings: i). 9/10 bedded Hospital is with necessary equipment & medicines for providing health	with other water. 10 bedded OHC is in operation. The OHC is appointed with male and female medical officers and suitable supporting paramedical staff for company employees & surrounding villages. Appropriate Medical & Health & Hygiene education camps are being organized for nearby villagers periodically.

care facilities to local residents.

ii). Three doctors (out of which atleast one will be lady doctor) and necessary paramedical staff will be appointed;

iii). Medical & Health & Hygiene education camps will be organized for nearby villagers periodically;

iv). Rs 110lakhs will be spent for launching ICUs on wheels s service with ultra-modern facilities like ECG, EEG, respiratory, Bio-metric monitors etc. Recurring cost of Rs 86 lakhs will be spent during the 10 years period;

v). Ambulances/Vehicles will be provided whenever necessary to take the patients to the following nearby hospitals having better medical facilities. Orient Cement is committed to contribute Rs. 57.60 lakhs in the next 10 years for strengthening of this health center. Orient Cement is also committed to contribute Rs 57.20 lakhs in the next 10 years for strengthening of the District Hospital & Rs 54.10 lakhs to Red Cross society at Gulbarga.

Company owned Ambulance facility is already provided as and when required for the inhabitants of the villages, who cannot come to the hospitals on their own for getting medical aid facilities.

Complied and remaining amount will be complied in phase manner.

xviii

With regard to the R&R plan

- i). There shall be (no Habitation or dwellings within the mine lease area;
- ii). Land sellers are paid as per compensation package fixed/decided by the tripartite committee comprising of project proponent, land sellers & district authorities in the presence of local legislator and other leaders, and agreed upon by all;
- iii). Gainful employment to the land sellers directly or through its agencies, within the needs of the company.
- iv). Preference to local people for the various jobs as per qualifications and suitability.
- v). Initiated necessary training activity by identifying 40 local

As per approved mining plan, within 05 years the benches shall not attain its ultimate position thus reclamation is not possible within five years.

- i) No dwelling or habitation within the mine lease area.
- ii) The compensation rate for the land is finalized by district administrating authority after discussing with landowners to their satisfaction and same has been paid by the Orient Cement Ltd to the land seller.
- iii) Employment provided to the land sellers either directly or indirectly but within the premises of the company.
- iv)Preference to locals has been given and based on their qualification company has provided either direct or indirectly employment to the Land seller.
- v) Initiated necessary training activity to the local people and OCL is sending them for training in various trades at Training center to

people and sending them for training in various trades at L&T Training center and will be absorbed in various jobs in the project:

vi). As part of CSR activities, Rs 74 crores will be spent in the first ten years of the project;

vii). Welfare measures in the fields of education. health. hygiene & sanitation, community mobilization. livelihood promotion & capability building etc., of the local population.

create employability.

vi) As a part of CSR-R&R activity & welfare measures. Orient Cement Ltd is carrying out the CSR activity in and around the villages of cement plant and has spent approx. amount of Rs.3935.559 Lakh as on March-2023.

FY 2022-23 alone for the period October-2022 to March-2023 M/s OCL has spent Rs.238.479 Lakhs towards CSR-R & R expenses.

For the period of October-2022 to March-2023 expenses as follows

S.NO	EXPENSES BOOKED	AMOUNT
Q3		
	Education	1,509,360
	Health	2,018,932
	Heritage ,Culture etc. (Local folk art promotions etc.)	177,000
	Infrastructure development in the villages.	1,516,140
	Livelihood Promotion and Capability building	1,329,340
	Programme administration monitoring and Evaluation	2,194,565
	Total Expenses for Q3 :	8,745,336
Q4		
	Education	5,867,010
	Health	1,764,478
	Heritage ,Culture etc. (Local folk art promotions etc.)	4,745,029
	Infrastructure development in the villages.	81,734
	Livelihood Promotion and Capability building	699,713
	Programme administration monitoring and Evaluation	1,944,586
	Total Expenses for Q4:	15,102,550
	R&R Expenses (Q3+Q4) from Oct' 23 rch'23:	23,847,886

Regular monitoring of water quality upstream and downstream of adjoining water bodies shall be carried out and record of monitoring data should be maintained and submitted to Ministry of Environment and Forests, its Regional Bangalore, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.

There shall be scientific method for the solid waste management which will be in the form of black cotton soil and lateritic soil. The

Regular monitoring of water quality upstream and downstream of adjoining water bodies is being carried out by MoEF&CC recognized & NABL accredited laboratory Cosmo Conscious Laboratory, Ballari and record of monitoring data is being maintained and submitted to State Pollution Control Board. Recently submitted letter No. Report vide our OCL/ENV/Asst.VP(Operation)/2023-24/679 14/04/2023 for upstream downstream of adjoining water bodies to Ministry of Environment and forests and its Regional office Bangalore, the Central Ground Water Authority and its Regional Director, KSPCB. Central Ground Water Board.

for the solid Scientific method waste management is being followed, where in the generated top soil & Overburden quantity of 956951 Tonnes (up to End of March 2023),

xix

	top soil of 5.05 million m³ will be generated out of which 5.01 million m³ will be backfilled in 18.40ha of mined out area and 0.04 million m³ will be disposed in 9.35 ha by bund formation along SW of pit in the safety zone of village to the height of 10m. Further, 16.2 million m³ of waste (subgrade limestone) will be generated and backfilled in 64.44 ha of mined out area. Ground Water Level is 80m below the general ground water level (340 MSL)	OB waste of safety bunds alor developme the mine lousage.	quantit d, villa ng the ent. The ease in	y will b ge safe lease be remai the ear	e used ty bund oundar ning so marked	for mald and for graph for graph gra	king nala ormation reen belt ocked in or better
xxi	Compliance status shall be submitted to the Ministry of Environment, Forests and Climate change and its regional office located at Bangalore on six monthly bases.	All the six-submitted Forests an office locate Soft Copy of for the perwas uploa 11-2022 Sof:15 PM our OCL/ENV/223/606 da	to the decimal of all Edical Apple decimal decimal continuation with the decimal continuation and the d	e Mininate changalore C compril-202 PARIV ia mai d copy lett ent(Ma	stry of ange a e. oliance 2 to Se ESH poil date was ser nufacti	f Envir nd its report of eptember ortal da ed 05-1 submitt	onment, regional of Mines er-2022 ated 26-11-2022 ed vide no
xxii	ETP shall also be provided for workshop and wastewater generated during the mining operation	There will during m wastewater mines work That waste Soak Pit.	not be ining is being the initial in in in income in inc	e any v operat ng gene est shel	wastewation. (erated lter etc.,	Only c at mine ,	lomestic es office,
xxiii	Digital processing of the entire lease area using remote sensing technique shall be carried out 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 production remote sen for monito submitted Forests and Letter no. September	sing terring late to Millits Record OCL/II.	chnique and use nistry egional e LM/EC/	e has been patte of Envoffice, I	een car ern and vironme Bangalo 01, dat	ried out report ent and re, Vide red 03rd
xxiv	Regular monitoring of ambient air quality shall be carried out and records maintained	Regular mobeing carri NABL accre Laboratory, being maint	ed out edited Ballar	by Molaborat	oEF&CO ory Co	C recog smo Co	nised & onscious
Ţ	20	Mining Area Haulage	52 54	16 16	17 17	16 17	ND ND

		Crushing & Screening	53	16	17	16	ND
		Labor Colony/Near Surgebin	52	16	17	16	ND
XXV	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	2. Medicante of mochecl 3. Prepending employed 4. Arou exam	medical the pro mainta nd 90 Drive oleted. cal exa en wor nay 202 k-up ha lacemen oyees, no.s nd 4 nination	exami ject are ined ac no.s of rs, Le minatio rkers ca 23 an s carrie nt med workm	nation be being cording f Eye E cocomotion for Fourried or Total 4 dout. dical Executed has	of the vecarried ly. Examinative of the cod Hanut in the carried carried or the carried left for we carri	workers out and tion for perators dlers of e month ployee's
xxvi	Implementation of action plan on issues raised during public hearing.	The comp commitmen	oany	is co	mpiling	g with	
Gener	al Conditions						
i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	e No change in mining technology and so working will be carried out without		ent and			
ii	No change in the calendar plan including excavation, quantum of limestone mineral and waste should be made.	No change in the calendar plan include excavation quantum of limestone mineral		cluding			
iii	A final mine closure plan along with details of corpus fund shall be submitted to the Ministry of Environment, Forests and Climate change 5 years in advance of final mine closure for approval.	Final Mine (Fund will Environmen years in acapproval.	be sub t, Fore	mitted ests an	to th d Clim	e Minis ate Cha	stry of ange 5
	The project proponent shall ensure that no natural water course and/ or water resources are obstructed due to any mining operations. Adequate measures shall be taken for protection of the 1st order and 2nd order	No natural w mining opera No construct the Natural v	ations. tion act	ivity is			

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	streams, if any emanating/passing through the mine lease during the course of mining operation	
V	The topsoil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	utilized by spreading over the bunds and afforested area for plantation and green belt
vi		Circular OB dump with terrace is made stacked at earmarked site and a RR drystone toe wall for a length of 371m is constructed at below the topsoil dump to check flow of loose material from the dumps and non-active sites are stabilized by thick plantation along the slopes of over burden dump. Total 36no's Random rubble checks has been constructed at 50m intervals in the garland drain to arrest the silt Monitoring and management of dump is continued so as to have self-sustaining vegetation. Compliance status has been submitted to MoEF and its regional office on half- yearly basis. Particular YEAR WISE GENERATION (Tons) Total 2018- 2019- 2020- 2021- 2022- 2015- Sep
		Overburde n/ 40940 57872 87789 42489 94713 95695
vii	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, temporary OB and mineral dumps to arrest flow of silt and sediment directly into the Kagina River and Benithora River and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc., and The drain should be regularly desilted particularly after the monsoon and maintained properly.	Catch drains and siltation ponds of appropriate size has been constructed, no run off water and sediments flow directly in to Benithora and Kagina river and other water bodies as the water bodies are located 15-20Km away from the mine lease area The rainwater so collected is being used for dust suppression and green belt development. The drains are desilted and maintained properly before every monsoon.
viii	Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and temporary over	Garland drains with appropriate size with suitable gradient is constructed to avoid runoff water in to the mines. A toe wall for the Over Burden dumps is constructed as per proposal in IBM Approved

burden dumps to prevent run off of water and flow of sediments directly into the Benithora and Kagina river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 data) and maximum vears discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper material. settling of silt Sedimentation pits shall constructed at the corners of the garland drains and de-silted at regular intervals. Dimension of the retaining wall at the toe of the temporary OB dumps and the OB benches within the mine to check run-off and siltation should be based on Plan. the rainfall data. Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.

Plan to prevent run off water.

No runoff water and sediments flow directly in to Benithora and Kagina river and other water bodies as the water bodies are located 15-20Km away from the mine lease area.

Dimension of the retaining wall at the toe of the temporary OB dumps and the OB benches (terraces) within the mine to check run-off and siltation is constructed as per IBM Approved

At present we have planted 30331 saplings in mines lease area till end of March 2023, with a Survival rate of approx. 78% inside lease area. Green belt along the mine lease area is being developed in a phase wise manner as per IBM Approved Mining Plan.

Year	Mines	Survivals	Survival % Age
2015-16	1220	610	50%
2016-17	4780	2390	50%
2017-18	3159	2527	80%
2018-19	3963	3946	99%
2019-20	4279	3829	89%
2020-21	6726	5381	80%
2021-22	3871	3290	85%
2022-23	2333	1983	85%
Total-Avg:	30331	23656	78%

Type of Saplings planted in 18.03 Ha till End of March-2023:- Acacia, Neem, tamarind, Ashok, People tree, Concorpus (dubai Tree), Honge trees, Bougain villa, Badam, Tapsi, Sankeswar, Peltoform, Neem, Nelli, Shubham trees.

Effective safeguard measures, such as regular water sprinkling shall be carried out in critical Limestone crusher is operating with high efficiency bag filters and particulate emission is below 30 mg/Nm3. Water sprinkling is done on areas prone to air pollution and having high levels of PM10 and PM2.5 such as around crushing and screening plant, loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the ambient air quality parameters conform to the norms prescribed by the central pollution control board in this regard.

haul roads, loading, and unloading points and water sprinkling system provided at crushing operations and transfer points of belt conveyer for controlling fugitive emissions.

The Avg Emission Level of LS Crusher Stack For the period October-2022 to March-2023 is 2.48 mg/Nm³.

xii The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the regional director, central ground water hoard.

As a suitable conservation measure a reservoir of capacity 5,60,000 Cubic meters has already been developed inside the plant to augment the groundwater.

Also, Rainwater harvesting pit with size 50m X 40m with depth 2m has been constructed near south side of the mine lease boundary for ground water recharge.

OCL is also here by submitting the piezometer report to CGWA office. Recently submitted Report vide our letter **No.**

OCL/ENV/Asst.VP(Operation)/2023-24/679 dated 14/04/2023 for ground water level.

Regular monitoring of ground XIII water level and quality shall be carried out in around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times a year pre-monsoon (April/May), monsoon (August), post (November) monsoon winter (January); once in each season)] shall be carried out in consultation with State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the ministry of Environment and forests and its Regional office Bangalore, the Central Ground Water Authority and its Regional Director, Central Ground Water Board. If at any

stage, it is observed that the

Regular monitoring of ground water level and quality are being carried out in and around the mine lease by establishing a network of existing wells by MoEF&CC recognised & NABL accredited laboratory, Cosmo Concious Research laboratory, Bellary. The data collected are submitted to the concerned authorities regularly.

Recently submitted Report of ground water level & quality vide our letter No. OCL/ENV/Asst.VP(Operation)/2023-24/679 dated 14/04/2023 to Ministry of Environment and forests and its Regional office Bangalore, the Central Ground Water Authority and its Regional Director, Central Ground Water Board.

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	groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	
xiv	Vehicular emission shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Vehicles emissions are being monitored regularly to bring down the emission levels. Further following measures have been taken to reduce the Vehicular emission i.e., by speed regulation and regular preventive maintenance of the vehicles at mines.
XV	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Blasting operations are carried out only during the daytime. For ground vibration control we have adopted and implemented a method of Conventional blasting using high explosives and ANFO with use of millisecond delay/NONEL to prevent the fly rocks, noise and to reduce ground vibration. Rock breaker is used instead of secondary blasting.
xvi	Drills shall either be operated with dust extractors or equipped with water injection system	Complied. The drilling equipment is inbuilt with Cyclonic dust collector system and Water injection system.
xvii	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Mineral Handling area such as Limestone crusher is operating with high efficiency bag filters and particulate emission is below 30 mg/Nm3. Water sprinkling arrangement is done at all the loading and unloading area and haul roads. Water sprinkling system is provided at crushing operations and transfer points of belt conveyer for controlling fugitive emissions.
xviii	Provision shall be made for the housing of construction labour 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	Separate provision is made for the housing of construction labour within the site with all necessary infrastructure and facilities. Safe drinking water and medical facility is also provided. Temporary structures will be removed after the completion of the project.

the completion of the project. The critical parameters such as xix The critical parameters such as PM₁₀, PM_{2.5} SO₂, PM10 (size less than 10micro NO_x & CO in the ambient air within the impact meter), PM2.5 (size less than zone or within the nearest habitation, whichever 2.5micro meter), NOx in the is closer are being monitored periodically. ambient air within the impact The results of AAQ For the period **October-2022** zone, peak particle velocity at to March-2023 are as follows 300m distance or within the Ambient Air Quality Report in µg/m³ Mines FY 2022-23 nearest habitation, whichever is PM 10 52 closer shall be monitored PM 25 17 502 18 16 15 17 17 periodically. Further, quality of NOx 16 17 15 16 15 discharged water shall also be Haulage monitored [(TDS, DO, PH and PM 10 52 16 PM 2.5 18 16 15 15 16 Total Suspended Solids (TSS)]. 18 15 17 502 16 18 16 The monitored data shall be ND ND ND ND ND uploaded on the website of the PM 10 51 company as well as displayed on 16 a display board at the project 502 18 15 15 19 16 17 Messe 18 15 17 17 15 16 site at a suitable location near ND the main gate of the company in 53 public domain. The circular no. J-PM 2.5 16 15 15 15 16 16 502 18 17 18 17 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of ND ND ND Regarding water quality, we are not discharging Environment and Forests, which any water from Mines, the only water generated is available on the website of the in Mines is from Water Closets and Urinals, ministry www.envfor.nic.in shall which is being treated in soak pit. also be referred in this regard for its compliance. Reports of the same will be updated in company website. Conservation measures for XX protection of flora fauna in the No such flora & fauna exists in the zones as the core & buffer zone should be area does not fall under forest land. drawn up in consultation with the local forest and wildlife Kindly exempt this condition. department and effectively implemented. Four ambient air quality monitoring stations Four ambient air quality have been established in the core zone as well as monitoring stations should be established in the core zone as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ & NO_x well as in the buffer zone for monitoring. The data of the same is being submitted to KSPCB office regularly. PM10, PM2.5, SO2 & NOx monitoring. Location the of stations should be decided based The recently submitted report is vide our on the meteorological OCL/ENV/Asst.VP(Operation)/2023data. 24/702 dated 15/05/2023. topographical features and environmentally and ecological sensitive targets and frequency monitoring should of undertaken in consultation with the state pollution control board

xxii	Data on ambient air quality (PM10, PM2.5, SO2 & NOx and other pollutant as per CPCB notification) should be regularly submitted to the ministry of environment and forests including its regional office located at Bangalore and the state pollution control board/central pollution control board once in six months.	We are regularly monitoring the ambient air quality and regularly submitting reports to the Ministry including its Regional office at Gulbarga and to the State Pollution Control Board. Soft Copy of all EC compliance report of Mines for the period April-2022 to September-2022 was uploaded in PARIVESH portal dated 26-11-2022 sent via mail dated 05-11-2022 06:15 PM & hard copy was submitted vide our letter no OCL/ENV/President(Manufacturing)/2022-23/606 dated 05/11/2022.
xxiii	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	We are monitoring the fugitive dust emissions quarterly at haul road, loading and unloading points, drilling & near transfer house. We have provided water spraying arrangement on haul road, loading and unloading points.
xxiv	Measures should be taken for control of noise levels below 85dBA in the work environment. Workers engaged in operations of HEMM, etc., should be provided with ear plugs/muffs.	Noise level is being regularly monitored. In the work environment, the workers are provided with Ear plugs / Muffs. The Average noise levels for the period October-2022 to March-2023 are well within the limits for the areas specified below. Ambient Noise Level Monitoring Report at surrounding Industrial Area of Mines FY (2022-23) Unit Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Avg Crushing & Screening LeqdB(A) 65.30 65.50 64.20 64.10 63.70 62.00 65.75 Mining Area (LeqdB(A) 64.60 65.20 64.50 64.10 64.20 64.40 64.80 CCR Office LeqdB(A) 51.60 51.70 52.80 51.60 53.20 54.00 54.74 Labor Colony LeqdB(A) 52.70 52.60 52.80 52.70 53.30 54.80 53.52 58.55 58.75 58.58 58.13 58.60 58.80 59.70 Unit Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Avg Crushing & Screening LeqdB(A) 62.40 63.30 62.50 62.30 62.40 60.60 62.18 Mining Area LeqdB(A) 61.30 62.60 62.10 63.10 62.30 61.90 62.15 CCR Office LeqdB(A) 44.30 44.30 44.30 44.30 44.50 44.00 48.90 48.62 Labor Colony LeqdB(A) 44.20 43.70 44.20 44.40 44.50 47.70 44.86 53.05 53.05 53.48 53.13 53.58 53.30 54.78 54.45
XXV	Industrial wastewater (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 19th may, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	There is no waste water generation during mining operation. Only domestic waste water will be generated at mines office, mines workshop, rest shelter etc., That wastewater is being treated at Soak Pit.
xxvi	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with	Persons working in dusty areas are been provided with dust mask and adequate training and information on safety and health aspects are provided.

	adequate training and information on safety and health aspects.	
xxvii	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Surveillance program of the workers are being undertaken periodically. Periodical medical examination of employees is being done on regular basis as per DGMS norms.
xxviii	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a senior executive, who will report directly to the head of the organization.	A separate Environment cell is provided with well qualified Engineers (2 persons) holding M.Tech Degree in Environment Engineering to carryout various activities like Analysis of Water & Waste Water, stack emission monitoring, Ambient air quality monitoring, Noise monitoring at plant boundaries and machineries , Report preparation and Compliances etc.,. The Environment Cell is set up under senior Executive of Asst. VP (Operation) who is reporting directly to the Head of the organization.
xxix	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the ministry of environment and forests and its regional office located at Bangalore.	The condition will be followed / implemented. The year wise expenditure is being submitted to the Ministry of Environment & Forests and its Regional office located at Gulbarga. Recently submitted data is vide our letter no OCL/ENV/Manufacturing (President)/2023-24/F-705 dated 27/05/2023
xxx	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 state of land development work.	Date of financial closure and date of commencing land development work will be informed in due course to the regional office located at Bangalore
xxxi	He regional office of this ministry located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the regional office by furnishing the requisite data/information/ monitoring reports.	We will extend full cooperation from our end to Regional office for providing the requisite data /information /monitoring reports.
xxxii	The project proponent shall	We are sending six monthly compliance reports

to the Ministry of Environment & Forests and its submit six monthly reports on Regional Office located at Bangalore, the the status of compliance of the respective Zonal Office of Central Pollution stipulated EC conditions control Board the state Pollution control Board. including results on the status of compliance of the stipulated EC The same is being uploaded in company website. conditions including results of monitored data (both in hard Soft Copy of all EC compliance report of Plant & copies as well as by e-mail) to Mines for the period April-2022 to September-2022 was uploaded in PARIVESH portal dated the ministry of environment and 26-11-2022 sent via mail dated 05-11-2022 regional forests. its 06:15 PM & hard copy was submitted vide Bangalore, the respective zonal office of CPCB and the SPCB. The letter no our proponent shall upload the OCL/ENV/President(Manufacturing)/2022-23/606 dated 05/11/2022. status of compliance of the EC conditions, including results of monitored data on their website and shall update the same periodically. It simultaneously be sent to the regional office of the ministry of environment, forests & climate change, Bangalore. respective zonal office of CPCB and the SPCB. A copy of the clearance letter We have submitted the copy of the clearance xxxiii letter to the concerned Panchayat, local NGO. shall be sent by the proponent to The clearance letter has also been put on the panchayat, concerned zilla parisad/municipal corporation, website of our company. urban local body and the local if any, from NGO. whom suggestion/ representations, if while were received processing the proposal. The clearance letter shall also be put on the website of the company by the proponent. The state pollution control board Requested for display a copy of clearance letter xxxiv should display a copy of the clearance letter at the regional office, district industry center and collector's the office/Tehsildar's office for 30 days. The environmental statement for We are submitting the Environment Statement XXXV each financial year ending 31st Report for each financial year ending 31st march in Form-V to the Regional office of the ministry march in form-v as is mandated of environment and forests, Bangalore. to be submitted by the project proponent to the concerned The recently submitted Form-V is for the period state pollution control board as (Apr 2021-Mar 2022) vide our letter no prescribed under the (WORKS)/22-23/583 Ref: OCL/ENV/Sr.VP environment (protection) rules, dated 22/09/2022. 1986, as amended subsequently,

advertise atleast in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue 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 also at website of the ministry of environment and forests at http://envfor.nic.in and a copy the same should be forwarded to the regional office of this ministry located at Bangalore. 9 The ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection. 10 Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in Withdrawal of this clearance and attract action under the provisions of environment (protection) act, 1974 the air (prevention & control of pollution) act, 1974 the air (prevention & control of pollution) act, 1974 the air (prevention & control of pollution) act, 1974 the air (prevention & control of pollution) act, 1981 the			7
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	1986 and the public liability	
	insurance act, 1991 along with	
	their amendments and rules	
	made thereunder and also any	
	other orders passed by the	
	Hon'ble Supreme Court of	
	India/High Court of Karnataka	
	and any other court of law	n
	relating to the subject matter.	
12	Any appeal against this	
	environmental clearance shall lie	Appeal against this environmental clearance will
	with the national green tribunal,	lie with the national green tribunal, if preferred,
	if preferred, within a period of	within a period of 30 days as prescribed under
	30days as prescribed under	section 16 of the National Green Tribunal Act,
	section 16 of the National Green	2010.
	Tribunal Act, 2010.	

Thanking You

Yours faithfully

For Orient Cement Ltd,

Satyabrata Sharma President -Manufacturing & Unit Head