



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FORESTS &
CLIMATE CHANGE

Regional Office (WCZ)
Ground Floor, East Wing
New Secretariat Building
Civil Lines, Nagpur - 440001
apccfcentral-ngp-mef@gov.in

F. No. EC-353/RON/2017-NGP 4384

Dated: 1st October, 2018

/s/

The Scientist 'F'
IA Division (Industry),
Ministry of Environment, Forest & Climate Change
Vayu Wing, 3rd Floor, Indira Paryavaran Bhawan,
Aliganj, Jorbagh Road,
New Delhi-110003

(Kind Attention: Dr. R B Lal, Scientist E/Additional Director)

Sub: Closure report on the status of partly complied conditions observed in the RO, inspection report dated 31.07.2018 -reg.

Ref:

- i. Environmental Clearance letter No. J-11011/159/2014-IA.II (M) dated 30.03.2017.
- ii. Inspection report on status of Compliance by RO, MoEFCC, Nagpur vide letter no. EC-353/RON/2017-NGP dated 31.07.2018
- iii. Project Proponent's letter no SRCP/ENV/2018-19/67 dated 07.09.2018

Sir,

I am directed to refer to the subject and letters under reference above wherein the Ministry accorded environment clearance to M/s Shree Cement Plant (A unit of Shree Raipur Cement Ltd) for expansion of limestone mine from 4.8 MTPA to 8.6 MTPA located at village Samaradhi and Bharuwadhih Tehsil & District Baloda Bazar (Chhattisgarh). The project proponent vide their letter No. SRCP/ENV/2018-19/67 dated 07.09.2018 submitted point-wise compliance status of partially complied conditions raised in the inspection report under ref (ii).

2. The present status on additional queries raised in the inspection report and the clarification/action plan submitted by PP are as under:

Sr. No.	Observations/finding of RO as on 31.07.2018	Clarification/Action plan by PP as on 07.09.2018	Remarks of the RO
	Partially complied		
1	Specific condition no. (x) - Quantitative statistics on number of individual screened for occupational health surveillance was not made available by the PP during the inspection.	<ul style="list-style-type: none"> Occupational health programs are conducted on regular basis and records being maintained by the Occupation Health Center (OHC). Quantitative statistics on number of individual screened for occupational health surveillance submitted. Sample copy of medical examination for year 2018 is also submitted. 	Complied Quantitative statistics on number of individual screened for occupational health surveillance was made available.
2	General condition no. (iv) - The validity of approval accorded by the CGWA expired on 7.04.2018. No detail pertaining to the renewal of approval, if any obtained from the CGWA, was made available by the PP during the inspection.	CGWA NOC renewal application applied on 21.03.18 to Regional Director, CGWA Raipur Submitted. Receipt copy of renewal application submitted.	Complied Detail pertaining to the renewal of approval, if any obtained from the CGWA, has been made available.
3	General condition no. (vi) - Detailed report was not made available by the PP. However, during inspection, the PP has made available results of the 'Blast induced ground vibration recorded on 27.03.2018. The PP has further informed that outcome of the results revealed the vibrations well below the permissible limits as prescribed by the DGMS and accordingly, there appears to be no need to design an effective blast design to curb blast induced menace and public annoyance as blasting operations are being undertaken by the PP in the mining operations by applying latest technologies causing least vibrations.	Controlled blasting being carried out with latest blasting technology by using non-electric down detonators with hole delay system and non-electric trunk line delay system at surface. Individual hole gives separate delay which gives minimum vibration level as well as low value of air blast on the surface. It reduced the vibration well below of the permissible limit as prescribed by DGMS. Ground vibration being regularly monitored as well as air blast level with the help of latest Micromet Seismograph. Report submitted.	Complied Detailed report on blasting has been made available.


4	General condition no. (viii) - The PP has informed that work for the digital processing of the entire lease area is under progress and will be completed soon.	Differential Global Positioning System (DGPS) in mine lease area has been carried out. It has been verified by Deputy Director Mines (DGM office) Balodabazar on 18.07.2018.	Complied Digital processing of the entire lease area has been completed.
5	General condition no. (xvi)- It was observed that PP has made arrangements for water sprinkling by deploying two water tankers. The PP has further that permanent haul roads are being concretized and after completion of the task permanent water sprinklers shall be installed along with main / permanent haul road of mining lease.	Presently there is no permanent haul road in mine. Road from phase to crusher is regularly wetted by water sprinkler and maintained by road grader and compactor. Road from Mine office to crusher is permanent and have been cemented. Photograph of concreted road submitted.	Complied Road from phase to crusher wetted by water sprinkler and maintained by road grader and compactor. Road from Mine office to crusher have been cemented.
6	General condition no. (xviii) - No document pertaining planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board were made available by the PP. However, it was observed that the PP has been constructing earthen pits of 2 x 1.0 KL capacity in premises for the storage of rain water and to use the stored water in their industrial operations.	The area falls under the safe category and as per the CGWA guideline 2015, 50 % recharge of withdrawal is required. The overall recharge is more than 50% of withdrawal. We have developed 2 ponds in plant area each of 1L KL capacity and mining pit of capacity 2.5L KL and one pond in mine area of 2.5L KL in mine area to collect rain water and recharge of ground water. Further in residential colony one pond of 20K KL is proposed. In addition, PP maintained the ponds by cleaning and deepening at Village Chandi, Karhi and Khapradih.	Complied Document pertaining planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board were made available.
7	General condition no. (xxvi) — The PP has informed that there are no Protected Areas within the 10 km radius of their project. A certificate to this effect has been obtained from the State Forest Department, Balodabazar. It was also observed that, a small patch of forest named Dhabadih Reserved Forest exists	Letter from forest Department showing "No impact of project on Dhabadih Reserved Forest" has been submitted	Complied A certificate stating that there are no Protected Areas within the 10 km radius of their project has been

	at a distance of 4 Km in NE direction from their project site. No reports pertaining to the impact assessment of the project of the PP on the aforementioned forest patch has been made available by the PP. The PP has informed that there is no impact of their project on the patch of Reserved Forest and a report to this effect and requirement, if any, for the preparation of Conservation Plan for the Wildlife in the area, will be obtained by them shortly.		obtained from the State Forest Department.
8	General Condition no. (xxxiii) - The PP has informed that sufficient fund is available for taken care of environmental protection measures. However, detail of funds earmarked for environmental protection, designated accounts, and year wise expenditure incurred on the environment protection measures was not made available during the inspection.	Adequate fund are available for Capital and Recurring to implement the EMP. Details for the year 2017-18 has been submitted.	Complied Detail of funds earmarked for environmental protection, designated accounts, and year wise expenditure incurred on the environment protection measures was made available.
9	General condition no. (xxxv)- Exact dates of financial closures, final approval of the project by the concerned authorities and the date of start of land development work were not intimated by the PP.	Date of final approval of the project was 01/012/2017 and financial closure is 13/12/2017.	Complied Exact dates of financial closures, final approval of the project by the concerned authorities and the date of start of land development work has been intimated
	Conditions not complied by the PP		
1	Condition no. (xxiv)- Reported as not applicable. However the PP has informed that necessary action to ensure compliance of this condition, as may be applicable will be initiated soon.	Not Applicable as there are no any Habitations and villages are the part of mine lease areas.	Not Applicable
2	Condition no. (xxv)- Reported as not applicable. However the PP has informed that necessary action to ensure compliance of this condition, as may be applicable will be initiated soon.	Not Applicable as there are no any grazing land is part of mine lease areas.	Not Applicable

3. The PP has complied with all the partially complied conditions which were raised in the earlier inspection report dated 31.07.2018. The information submitted found satisfactory and in order.

This issues with the approval of the Addl. PCCF (Central), Regional Office (West Central Zone) MoEF&CC, Nagpur.

Yours faithfully,


(Dr. P R Sakhare)
Scientist 'D'

Copy to:

1. The Director RO HQ, Ministry of Environment, Forest & Climate Change, 1st Floor Agni Wing, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi- 110 003.
2. The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhavan, North Block, Sector-19, Naya Raipur, (Chhattisgarh)
3. The Director (Monitoring Cell), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi-110003.
4. The Project Proponent M/s Shree Raipur Cement Plant (A unit of Shree Cement Limited) Village Khaparadih, Tehsil Simga District Baloda Bazar-Bhatapara (Chhattisgarh) – 493 332
5. Guard File.



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FORESTS
& CLIMATE CHANGE

Regional Office (WCZ)
Ground Floor, East Wing
New Secretariat Building
Civil Lines, Nagpur - 440001
apccfcentral-ngp-mef@gov.in

F. No: EC-353/RON/2017-NGP/3998
To

Dated: 31st July, 2018

The Scientist 'F'
IA Division (Industry),
Ministry of Environment, Forest & Climate Change
Vayu Wing, 3rd Floor, Indira Paryavaran Bhawan,
Aliganj, Jorbagh Road,
New Delhi-110003

(Kind Attention: Shri Sharath Kumar Pallerla)

Sub: A report on the status of compliance of conditions stipulated in the environment clearance dated 30.03.2017 accorded by the IA Division of the MoEF&CC in favour of M/s Shree Cement Limited for enhancement of production capacity from 4.8 MTPA to 8.6 MTPA of Lime Stone Mine located near village Semaradih & Bharuwadhih in Balodabazar District in the State of Chhattisgarh – regarding.

Ref: Environment Impact Assessment Division of the MoEF&CC, New Delhi's letter no. J-11015/159/2014-IA.II(M) dated 30.03.2017

Sir,

I am directed to refer to the Environment Impact Assessment Division of the MoEF&CC's letter mentioned under reference above conveying environment clearance for open cast lime stone mine project mentioned in the subject above. The Project proponent vide their letter no. SRCP/BB/2018-19/07 dated 8.05.2018 requested the Regional Office, Nagpur for a certified compliance report in respect of conditions stipulated in the environment clearance dated 30.03.2017. In this connection, it is to inform that Regional Office carried out an inspection of the plant on 15.05.2018 to assess the updated status of compliance of conditions stipulated in the environment clearance dated 30.03.2017. Major finding of the Regional Office during the inspection are given as under:

1. The total lease area of the lime stone mine of the PP is 531.26 ha. The area comprises of 78.722 ha Government land, 2.558 ha of private land and 449.846 ha of land owned by Shree Cement Ltd. The PP has also proposed construction of residential colony in the non-mineralized zone of 22.0 ha of their mining lease.
2. The mining lease over an area of 531.126 ha was granted in favour of Shree Cement Limited vide the State Government's order no. F-2/32/2003/12 (3) dated 12.07.2010. Mining Lease was executed on 11.01.2011 for a period of thirty years i.e. up to 10.01.2041. The PP has further informed that Government of India has amended the Mines and Minerals (Development and Regulation) Act, 1957 and has promulgated an ordinance on 12.01.2015 (MMDR Amendment Ordinance, 2015) according to which the period of grant of mining lease deemed extended up to 10.01.2061 as per section 8A. Subsequently, amendment agreement to extend the period of mining lease was made on 14.07.2016 by the PP.

3. Now the PP has proposed enhancement in the production capacity of the mining lease from 8.6 Million TPA to 11.06 Million to re-align production capacity of captive mine with the proposed expansion capacity of their cement plant
4. Following conditions were observed to be not complied and partially complied with by the PP:

A. Conditions complied with partially by the PP

- (i) Specific condition no. (x) - Quantitative statistics on number of individual screened for occupational health surveillance was not made available by the PP during the inspection
- (ii) General condition no. (iv) - The validity of approval accorded by the CGWA expired on 7.04.2018. No detail pertaining to the renewal of approval, if any obtained from the CGWA, was made available by the PP during the inspection.
- (iii) General condition no. (vi) - Detailed report was not made available by the PP. However, during inspection, the PP has made available results of the 'Blast induced ground vibration recorded on 27.03.2018. The PP has further informed that outcome of the results revealed the vibrations well below the permissible limits as prescribed by the DGMS and accordingly, there appears to be no need to design an effective blast design to curb blast induced menace and public annoyance as blasting operations are being undertaken by the PP in the mining operations by applying latest technologies causing least vibrations.
- (iv) General condition no. (viii) - The PP has informed that work for the digital processing of the entire lease area is under progress and will be completed soon.
- (v) General condition no. (xvi) - It was observed that PP has made arrangements for the water sprinkling by deploying 2 water tankers. The PP has further informed that permanent haul roads are being concretized and after completion of the task permanent water sprinklers shall be installed along with main/permanent haul road of the mining lease.
- (vi) General condition no. (xviii) - No document pertaining planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board were made available by the PP. However, it was observed that the PP has been constructing earthen pits of 2x1.0 Lakh KL capacity in their premises for the storage of rain water and to use the stored water in their industrial operations.
- (vii) General condition no. (xxvi) - The PP has informed that there are no Protected Areas within the 10 km radius of their project. A certificate to this effect has been obtained from the State Forest Department, Balodabazar. It was also observed that, a small patch of forest named Dhabadih Reserved Forest exists at a distance of 4 Km in NE direction from their project site. No reports pertaining to the impact assessment of the project of the PP on the aforementioned forest patch has been made available by the PP. The PP has informed that there is no impact of their project on the patch of Reserved Forest and a report to this effect and requirement, if any, for the preparation of Conservation Plan for the Wildlife in the area, will be obtained by them shortly.
- (viii) General Condition no. (xxiii) - The PP has informed that sufficient fund is available for taken care of environmental protection measures. However, detail of funds earmarked for environmental protection, designated accounts, and year wise expenditure incurred on the environment protection measures was not made available during the inspection.

- (ix) General condition no. (xxv) - Exact dates of financial closures, final approval of the project by the concerned authorities and the date of start of land development work were not intimated by the PP.

B. Conditions not complied with by the PP

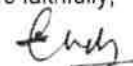
- (i) Condition no. (xxiv) - Reported as not applicable. However, the PP has informed that necessary action to ensure compliance of this condition, as may be applicable, will be initiated soon.
- (ii) Condition no. (xxv) - Reported as not applicable. However, the PP has informed that necessary action to ensure compliance of this condition, as may be applicable, will be initiated soon.
5. The PP has informed that no court cases in various courts of law are pending and no show cause notices has been issued by the CECB against their plant.

A detailed report on the monitoring of the conditions stipulated in the environment clearance is enclosed herewith.

This issues with the approval of the Addl. PCCF (Central), Regional Office (West Central Zone) MoEF&CC, Nagpur.

Encl: as above

Yours faithfully,



Charan Jeet Singh
Scientist 'C'

Copy to:

1. Director RO HQ, Ministry of Environment, Forest & Climate Change, Government of India, 1st Floor Agni Wing, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi- 110 003.
2. Director (Monitoring Cell), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi-110003
3. User Agency.
4. Guard File.



Charan Jeet Singh
Scientist 'C'

A REPORT ON THE STATUS OF COMPLIANCE OF CONDITIONS STIPULATED IN THE ENVIRONMENT CLEARANCE DATED 30.03.2017 ACCORDED BY THE IA DIVISION OF THE MOEF&CC IN FAVOUR OF M/S SHREE CEMENT LIMITED FOR ENHANCEMENT OF PRODUCTION CAPACITY FROM 4.8 MTPA TO 8.6 MTPA OF LIME STONE MINE LOCATED NEAR VILLAGE SEMARADIH & BHARUWADHIH IN BALODABAZAR DISTRICT IN THE STATE OF CHHATTISGARH

1. The above mentioned project has been accorded environment clearance by the IA Division of the MoEF&CC, vide its letter no. J-11015/159/2014-IA.II (M) dated 30.03.2017 subject to fulfillment of certain conditions prescribed therein.
2. A visit for the monitoring of compliance of conditions stipulated in the environment clearance has been conducted by Regional office on 15.05.2018. Major findings during the monitoring are given as under:

S. No	Conditions stipulated in the environment clearance	Status of compliance
A.	SPECIFIC CONDITIONS	
(i).	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Chhattisgarh, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Reported as not applicable in view of the fact that no court case, against the project of the PP, is pending any court of law.
(ii).	This Environmental clearance is granted subject to necessary permissions for land use to be obtained from the State Govt. of Chhattisgarh before commencing the activities.	Being complied with The PP has informed that expansion of the production capacity of the mine is being realized from the existing land and no additional land is being acquired for the enhancement of production. The PP has further adverted to the mining lease executed with the State Government on 12.01.2011 wherein mining has been allowed over an area of 531.126 ha and mining is being continued within the lease area granted by the State Government.
(iii).	The Proponent shall ensure that the canals should not be diverted. The 50m buffer zone on either side of stream/canal in lease area and adjoining to the mine lease area shall be maintained.	Being complied with It was observed that canal course has not been diverted by the PP and buffer zone on either side of the canal has been maintained by the PP.
(iv).	No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.	Reported as not applicable as no forest land is involved in the mining lease area.
(v).	The Environmental Clearance is subject to obtaining requisite NBWL Clearance, if any, from the Standing Committee of National Board for Wildlife for Mining project.	Reported as not applicable as no PAs are located within 10 Km periphery of the project of the PP.
(vi).	The Project Proponent shall obtain Consent to Operate from the State	Complied with It was observed that the PP has obtained CTO on

	Pollution Control Board, Chhattisgarh and effectively implement all the conditions stipulated therein.	13.12.17 from CECB Raipur. A copy of the same is enclosed at Annexure – I .
(vii).	The Proponent shall install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site.	<p>Being complied with</p> <p>It was observed that the PP has installed 4 Ambient Air Quality Monitoring Stations along the common boundary of the plant and mining lease, covering all three villages Bhurwadih, Semradih and Khapradih, for the monitoring of PM2.5, PM10, SO2 and NOx level. Monitoring reports pertaining to the AAQMS, as made available by the PP, are enclosed at Annexure-II.</p> <p>Further, data pertaining to the pollutant levels viz; PM 10, SO2, NOx (ambient levels) and PM, SO2 & NOx (stack emissions) are being continuously displayed on the display board at the main gate of the plant and has been provided connectivity to CPCB server.</p> <p>It was informed that no effluent water is discharged from mine. The PP informed that heavy earth moving machines are being washed in the lease area and water generated from the process is used for dust suppression in crusher after removal of oil and grease contents if any.</p> <p>Further, no STP has been installed by the PP in mining lease area. Domestic waste water generated from mine office is disposed off in a soak pit through a septic tank.</p>
(viii).	The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.	<p>Being complied with</p> <p>It was observed that the PP has installed 4 piezometers in the core zone of the mining lease area for the monitoring of ground water level and quality. The PP has informed that monitoring reports on the same are being submitted to the Regional office of the Ministry, CGWA and State pollution Control Board. Latest report pertaining to the period of premonsoon and post monsoon period of 2017 as made available by the PP is enclosed at Annexure –III.</p>
(ix).	Project Proponent should plant only native species for green belt development. Plantation of local species should be carried out during the Monsoon Season. The project should also implement community Development and Welfare programme in the area of Health, Education and Environmental Protection.	<p>Being complied with</p> <p>The PP has informed that so far, they have planted approximately 1,39,186 saplings in the lease area along the boundary of the mining lease as green belt/safety zone development. Detail of plantation undertaken by the PP in their lease area as made available by the PP is enclosed at Annexure –IV.</p> <p>The PP has further informed that in addition to plantation undertaken within their premises, 15,000 trees have been planted in nearby schools</p>

		<p>Bharuwadih, Semradih, Khapradih, Chandi, Karahi & Parkidih villages located within 10 Km periphery of the plant under Hariyar Chhattisgarh Yojana.</p> <p>The PP has further informed that programmes for the development of community are also being implemented in the area for the improving health, education and environment under CSR programmes being run by the PP.</p>
(x).	<p>Proponent shall appoint an Occupational Health Specialist-for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.</p>	<p>Partially complied with</p> <p>It was observed that the PP has set up an Occupational Health Centre in their premises and occupational health specialist and medical staff have been engaged for regular and periodical medical examination of the workers engaged in the project. Records on the health monitoring of the workers are being maintained by the PP.</p> <p>As per detail made available by the PP regarding screening of occupational health diseases, health parameters like cardio-vascular system, respiratory system, GI system, ENT, Genito Urinary System, Pulmonary functions, etc. are being conducted during the regular health checkups. However, quantitative statistics on number of individual screened for occupational health surveillance was not made available by the PP during the inspection (Annexure -V).</p>
B. General conditions		
(i).	<p>A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest and Climate Change 5 years in advance of final mine closure for approval.</p>	<p>Complied with</p> <p>The PP has informed that modified Mining Plan with Progressive Mine Closure Plan has been approved by IBM Raipur vide letter No. बलीदाबा/चूप/खयो . 1025/ नाग /2015/29 रायपुर dated 13.0.2016. Detail of the same is available at Annexure-VI. The PP has further informed that in compliance to the provision of this condition, Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest and Climate Change 5 years in advance of final mine closure.</p>
(ii).	<p>No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.</p>	<p>The PP has consented to this condition.</p>
(iii).	<p>No change in the calendar plan</p>	<p>The PP has consented to this condition and has</p>

	including excavation, quantum of mineral and waste should be made.	informed that they are working as per approved modified mining plan. However, quantitative detail pertaining to the actual annual production realized against the approved annual production as per modified mine plan was not made available by the PP during the inspection.
(iv).	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project.	Complied with The PP has obtained approval from the Central Ground Water Authority, vide their letter no. 21-4(36)/NCCR/CGWA/2008/569 dated 8.04.2015 for a period of 3 years. A copy of the same is enclosed at Annexure -VII . The validity of approval accorded by the CGWA expired on 7.04.2018. No detail pertaining to the renewal of approval, if nay obtained from the CGWA was made available by the PP during the inspection.
(v).	Mining shall be carried out as per the provisions outlined in mining plan approved by Indian Bureau of Mines (IBM) as well as by abiding to the guidelines of Directorate General Mines Safety (DGMS).	Being complied with The PP has consented to this condition and informed that mining is being carried out as per the IBM approved mining plan and guidelines provided by the Directorate General Mines Safety (DGMS).
(vi).	The project proponent shall carry out scientific investigation in respect of "Blast induced ground vibration, fly rock & air blast". Based on this study, Project Proponent should design an effective blast design to curb blast induced menace and public annoyance. The Report shall be submitted to the Regional Office of the Ministry.	Partially complied with The PP has informed that a report on the outcome of the study was submitted to the Regional on 10.01.2018. However, detailed report was not made available by the PP. However, during inspection, the PP has made available results of the 'Blast induced ground vibration recorded on 27.03.2018 (Annexure-VIII). The has further informed that outcome of the results revealed the vibrations well below the permissible limits as prescribed by the DGMS and accordingly, there appears to be no need to design an effective blast design to curb blast induced menace and public annoyance as blasting operations are being undertaken by the PP in the mining operations by applying latest technologies causing least vibrations.
(vii).	The lands which are not owned by Proponent, mining will be carried out only after obtaining the consents from all the concerned land owners as per the provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.	Being complied with The PP has informed that mining is carried out within the lease area which has already been acquired by the PP and necessary permission from the State Government has been obtained prior to commencement of mining operations in accordance with the provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.

(viii).	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, Forest and Climate Change its Regional Office.	Partially complied with The PP has informed that work for the digital processing of the entire lease area is under progress and will be completed soon.
(ix).	The critical parameters as per the Notification 2009 such as PM10, PM2.5, NOx, and SOx etc. in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)).The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	Being complied with It was observed that the PP has installed 4 Ambient Air Quality Monitoring Stations along the common boundary of the plant and mining lease, covering all three villages Bhurwadih, Semradih and Khapradih, for the monitoring of PM2.5, PM10, SO2 and NOx level. Monitoring reports pertaining to the AAQMS, as made available by the PP, are enclosed at Annexure-II. Further, data pertaining to the pollutant levels viz. PM 10, SO2, NOx (ambient levels) and PM, SO2 & NOx (stack emissions) are being continuously displayed on the display board at the main gate of the plant and has been provided connectivity to CPCB server. It was also informed by the PP that peak particle velocity is measured at 300 meter is well within the norms of 10 mm/s. It was informed that no effluent water is discharged from mine. The PP informed that heavy earth moving machines are being washed in the lease area and water generated from the process is used for dust suppression in crusher after removal of oil and grease contents if any. Further, no STP has been installed by the PP in mining lease area. Domestic waste water generated from mine office is disposed off in a soak pit through a septic tank.
(x).	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 PM2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring of Ambient Air	Being complied with It was observed that PP has made arrangements for the water sprinkling by deploying 2 water tankers. The PP has further informed that permanent haul roads are being concretized and after completion of the task permanent water sprinklers shall be installed along with main/permanent haul road of the mining lease. Water sprinkling arrangements have been observed to be provided at 2 crushing plants located in the mining lease of the PP. Mined out material is being transported through closed conveyors belts from the crushing plant to Cement Plant. Monitoring reports pertaining to the AAQMS, as made available by the

	<p>Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.</p>	<p>PP, are enclosed at Annexure-II</p>
(xi).	<p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. The monitoring shall be carried out four times in a year pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.</p>	<p>Being complied with The PP has informed that a network of borewells and piezometers for regular monitoring of ground water level and quality in the core zone and buffer zone of the mining lease has been set up. It was observed that the PP has installed 4 piezometers in the core zone of the mining lease area for the monitoring of ground water level and quality. The PP has informed that monitoring reports on the same are being submitted to the Regional office of the Ministry, CGWA and State pollution Control Board. Latest report pertaining to the period of May, 2017 as made available by the PP is enclosed at Annexure – III.</p>
(xii).	<p>Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact</p>	<p>Being complied with No springs and perennial nallahs were observed flowing through the mining lease area of the PP. The PP has further informed that there is no disturbance of nearby water bodies by mining activities. It was observed that the PP has constructed a pit of 2.5 lakh KL storage capacity for the storage of rain water for its use in various mining operations and for the recharge of ground water (Annexure-IX).</p>

	of mining over ground water table.	
(xiii).	Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board	Reported as not applicable as no river stream is flowing in the vicinity of the mining lease area of the PP.
(xiv).	Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.	Being complied with Transportation of minerals from the pit head to the crushing plant, located within the lease area, is being carried out by the dumpers. Crushed ore is transported through pipe conveyor and closed conveyor belt system from crusher to plant.
(xv).	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	Being complied with The PP has informed that mining activities is being carried out as per norms of DGMS to maintain illumination and sound level. The PP has created a 7.5 M width wide green belt along the mining lease boundary. Noise monitoring report, as made available by the PP is enclosed at Annexure-X.

(xvi).	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. In case of Belt-conveyors facilities the system should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.	Partially complied with It was observed that PP has made arrangements for the water sprinkling by deploying 2 water tankers. The PP has further informed that permanent haul roads are being concretized and after completion of the task permanent water sprinklers shall be installed along with main/permanent haul road of the mining lease. Water sprinkling arrangements have been observed to be provided at 2 crushing plants located in the mining lease of the PP. Mined out material is being transported through closed conveyors belts from the crushing plant to Cement Plant. Bag filter has been installed at all transfer points to control the fugitive emissions. Monitoring reports pertaining to the AAQMS, as made available by the PP, are enclosed at Annexure-II
(xvii).	Board reserves the right to amend/cancel any of the above conditions, stringent the emission/effluent limits stipulated above and add new conditions as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.	The PP has consented to this condition.
(xviii).	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.	Partially complied with No document pertaining planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board were made available by the PP. However, it was observed that the PP has been constructing earthen pits of 2x1.0 Lakh KL capacity in their premises for the storage of rain water and to use the stored water in their industrial operations. It was also observed that another earthen pit of 2.5 Lakh KL capacity has also been developed in mine area for storage of rain water and to use the water for mining as well as industrial operations (Annexure-IX).
(xix).	The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/levelling with the help of dozer/compactors.	Being complied with It was observed that the PP has utilized OB generated from their initial mining operations for the construction of crushing plant in their lease area. The PP has informed that mining operations are still in the initial stage and dump generated initially was used to

		provide suitable slope for the construction of crushing unit. The slope of the dump has been provided with pitching along the slope of crusher ramp. It was further observed that area earmarked for the dumping of OB is now being used for dumping of OB and is being maintained with the help of dozer and compactors.
(xx).	The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adapted to that micro climate.	The PP has consented to this condition and informed that reclamation of the dump site with suitable native species will be done as per approved mining plan. It was observed that currently, the slope stabilization work is being done and technical reclamation will be done by the PP in due course when the dump attains requisite height for bench formation.
(xxi).	The top soil, 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. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run-off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.	Being complied with It was observed that the PP has created a mound of the top soil along the boundary of the mining lease and the same has been planted with the native species for the development of safety zone/green belt. The PP has also earmarked an area of approximately 8-9 ha for the storage of top soil within the mining lease area. Further, the OB generated from the mining operations is being dumped at the designated site and the PP has informed that management of OB dump shall be undertaken in accordance with the provisions stipulated in this condition and in consonance with the approved mine plan. The PP has further informed that entire excavated area cannot be backfilled and ultimate pit will be developed into a water body in accordance with the provisions of the Mine Closure Plan. As per approved mining plan, top soil is being separate stacked and top soil also being used for plantation along mines lease boundary area.
(xxii).	Catch drains and siltation ponds of appropriate size shall be constructed	Being complied with It was observed that siltation pond are has been

	<p>around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should 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 should 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 desilted at regular intervals.</p>	<p>constructed to collect rain water. Further, the PP has constructed a catch drain of approximately 300 meter length to arrest silt. The PP has further informed that since the mining operation are in the initial stage and with the advancement of mining operations covering larger areas, additional garland drains and siltation ponds shall be constructed as per the requirement.</p>
(xxiii).	<p>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 and as per CPCB Guidelines. The density of the trees should be 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.</p>	<p>Being complied with The PP has informed that so far, they have planted approximately 1,39,186 saplings in the lease area along the boundary of the mining lease as green belt/safety zone development. Detail of plantation undertaken by the PP in their lease area as made available by the PP is enclosed at Annexure -IV. The PP has further informed that in addition to plantation undertaken within their premises, 15,000 trees have been planted in nearby schools Bharuwadih, Semradih, Khapradih, Chandi, Karahi & Parkidih villages located within 10 Km periphery of the plant under Hariyar Chhattisgarh Yojana.</p>
(xxiv).	<p>Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and</p>	<p>Not complied with Reported as not applicable. However, the PP has informed that necessary action to ensure compliance of this condition, as may be applicable, will be initiated soon.</p>

	villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area", if any, applicable to the project					
(xxv).	The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.	Not complied with Reported as not applicable. However, the PP has informed that necessary action to ensure compliance of this condition, as may be applicable, will be initiated soon.				
(xxvi).	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office	Partially complied with The PP has informed that there are no Protected Areas within the 10 km radius of their project. It was mentioned in the certificate that there are no Schedule-I or important wildlife species found in the area as there are no continuous patches of forests in the area. A certificate to this effect has been obtained from the State Forest Department, Balodabazar and a copy of the same is enclosed at Annexure-XI. It was also informed by the PP, a small patch of forest named Dhabadih Reserved Forest exists at a distance of 4 Km in NE direction from their project site. No reports pertaining to the impact assessment of the project of the PP on the aforementioned forest patch has been made available by the PP. The PP has informed that there is no impact of their project on the patch of Reserved Forest and a report to this effect and requirement, if any, for the preparation of Conservation Plan for the Wildlife in the area, will be obtained by them shortly.				
(xxvii).	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office located at Nagpur. Implementation of such program shall	Being complied with The PP has informed that all commitments made during the public hearing have been incorporated in CSR activities. Detail of expenditure incurred by the PP on CSR activities during the last 3 years is given as under: <table><tr><th>Year</th><th>Rs. in crore</th></tr><tr><td>2015-16</td><td>1.48</td></tr></table>	Year	Rs. in crore	2015-16	1.48
Year	Rs. in crore					
2015-16	1.48					

	be ensured accordingly in a time bound manner.	<table><tr><td>2016-17</td><td>1.74</td></tr><tr><td>2017-18</td><td>2.79</td></tr></table> <p>Details of CSR activities undertaken by the PP and expenditure incurred thereon is enclosed at Annexure-XII.</p>	2016-17	1.74	2017-18	2.79
2016-17	1.74					
2017-18	2.79					
(xxviii).	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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied with No temporary camps of construction labourers were observed in the lease area. However, the PP has informed that housing, fuel, toilets with soak pits and septic tank, safe drinking water, medical healthcare etc. has been provided to construction labours in their plant area.				
(xxix).	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/ muffs.	Being complied with It was observed that all heavy earth moving machines are fitted with AC cabin. The PP has informed that measures being taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. are provided with ear pluggs/ muffs. Detail of monitoring reports on the noise levels as made available by the PP is enclosed at Annexure-X.				
(xxx).	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 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.	Being complied with No ETP was observed to be constructed by the PP in the lease area. The PP has informed that workshop has been housed in plant premises. It was informed that no effluent water is discharged from mine. The PP informed that heavy earth moving machines are being washed in the lease area and water generated from the process is used for dust suppression in crusher after removal of oil and grease contents if any. Further, no STP has been installed by the PP in mining lease area. Domestic waste water generated from mine office is disposed off in a soak pit through a septic tank.				
(xxxi).	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.	Being complied with It was observed that workers engaged in the dusty areas have been provided with protective respiratory devices. All heavy earth moving machines are fitted with AC cabin. Workers engaged in operations of HEMM etc. are provided with ear pluggs/ muffs.				
(xxxii).	A separate environmental management cell with suitable qualified personnel	Being complied with It was observed that a separate environmental				

	should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization	management cell with full-fledged laboratory facilities has been developed by the PP. Senior environment executive of the cell reports directly to the Unit Head. However, organizational chart of the environment cell was not made available by the PP.
(xxxiii).	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 and its Regional Office.	Partially complied with The PP has informed that sufficient fund is available for taken care of environmental protection measures. However, detail of funds earmarked for environmental protection, designated accounts, and year wise expenditure incurred on the environment protection measures was not made available during the inspection.
(xxxiv).	The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Partially complied with The PP has informed that capacity of the mine was increased from 4.8 to 8.6 MTPA on 13.12.2017. However, exact dates of financial closures, final approval of the project by the concerned authorities and the date of start of land development work were not intimated by the PP.
(xxxv).	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.	Being complied with
(xxxvi).	The Regional Office of this Ministry 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.	The PP has consented to this condition.
(xxxvii).	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	Complied with As per detail made available by the PP, it was observed that a copy of the environment clearance has been communicated to all concerned viz. Gram Panchayat, Khapradih, Jila Panchayat, Balodabazar Nagar Palika, Balodabazar, by the PP on 10.04.2017 (Annexure-XIII). A copy of EC has also been uploaded on the website of the company (https://www.shreecement.in/pages/environment.com)

		pliance.php).
(xxxviii).	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.	-
(xxxix).	The project authorities should advertise at least 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 web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.	Complied with As per detail made available by the PP, the EC was advertised in two local newspapers namely, Hari Bhumi and Hitaavada on 7.04.2017. Copy of the newspaper cuttings is enclosed at Annexure-XIV.
11.	The Ministry or any other competent authority may alter/modify the above conditions of stipulate any further condition in the interest of environment	The PP has consented to this condition.
12.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the condition mentioned above may result in withdraw of this clearance and attract action under the provision of the Environment (Protection) Act, 1986.	The PP has consented to this condition.
13.	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rule made thereunder and also any other order passed by the Hon'ble Supreme Court of India/High Court of Chhattisgarh and any other court of law relating to the subject matter.	The PP has consented to this condition.

- (i) Condition no. (xxiv) - Reported as not applicable. However, the PP has informed that necessary action to ensure compliance of this condition, as may be applicable, will be initiated soon.
- (ii) Condition no. (xxv) - Reported as not applicable. However, the PP has informed that necessary action to ensure compliance of this condition, as may be applicable, will be initiated soon.

The PP has informed that no court cases in various courts of law are pending and no show cause notices has been issued by the CECB against their plant.


CharanJeet singh
Scientist 'C'