

Ref. No.: KPM/EMD/MoEF/F 01/033

Dated: 30.11.2021

To,  
Regional Office (WZ),  
Kendriya Paryavaran Bhawan,  
E-5, Arera Colony, Link Road-3, Ravi Shankar Nagar  
**BHOPAL – 462 016**  
E-Mail: rowz.bpl-mef@nic.in

**Subject:** Environmental Clearance Compliance status Report Half Yearly (April' 2021 to September' 2021) of Kakra - Panna Limestone Mine of M/s Jaykaycem Central Limited for EC Corrigendum in LS Production Capacity- 4.08 MTPA Limestone; 1.51 MTPA inter-burden; Soil/ Alluvium 1.26 MTPA; Mine waste 0.18 MTPA and 0.58 MTPA sub-grade mineral [Total excavation 7.61 MTPA] in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh.

**Ref.:** 1. **Environment Clearance vide no F. No. J-11015/190/2016-IA. II (M) dated 31.08.2020.**  
2. **Corrigendum in EC vide letter No. J-11015/190/2016-IA.II (M) dated 8<sup>th</sup> March, 2021.**

Dear Sir,

With reference to above stated Environment Clearance Compliance status Report Half Yearly (April' 2021 to September' 2021) of Kakra - Panna Limestone Mine of M/s Jaykaycem Central Limited for EC Corrigendum in LS Production Capacity- 4.08 MTPA Limestone; 1.51 MTPA inter-burden; Soil/ Alluvium 1.26 MTPA; Mine waste 0.18 MTPA and 0.58 MTPA sub-grade mineral [Total excavation 7.61 MTPA] in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh. As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the same soft copy has been send to below email id for your kind reference and record please. We trust you will find the same in order.

Thanking you,

Yours Sincerely  
For: Jaykaycem (Central) Limited



Aditya Pratap Singh  
(Authorised Signatory)

Encl.: 1. Copy of Environmental Clearance Compliance Status Report.  
Soft copy by mail to:

1. Member Secretary, MP Pollution Control Board, Paryawaran Parisar, E-5, Arera Colony, Bhopal (MP). E. mail: ms-mppcb@mp.gov.in.
2. Regional Officer, Regional Office, MP Pollution Control Board, Makronia, Sagar (MP)  
E. mail: ropcb-sagar@mp.gov.in.
3. Regional Director- CPCB, Paryawaran Parisar, E-5, Arera Colony, Bhopal (MP) – E. mail: [cpcb.bhopal@gmail.com](mailto:cpcb.bhopal@gmail.com)
4. Deputy Director General of forest (C ), Ministry of Env., Forest and Climate Change, Integrated Regional Office, E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road -3, Ravishankar Nagar, Bhopal-462016. E mail : [rowz.bpl-mef@nic.in](mailto:rowz.bpl-mef@nic.in)
5. The Director , Ministry of Env., Forest and Climate Change, Indira Paryavaran Bhavan,, Jor Bagh Road, Aliganj, New Delhi-11003 Email: [dirind-moefcc@gov.in](mailto:dirind-moefcc@gov.in)



### **EC Compliance Report (Period from April' 2021 to September' 2021)**

<b>Kakra-Panna Limestone Mine of M/s Jaykaycem (Central) Limited for production of 4.08 MTPA Lime stone; 1.61 MTPA OB/Top Soil/Waste; and 0.58 MTPA sub-grade mineral [Total excavation 6.27MTPA] in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Saptai, Judi, Devri Purohit &amp; Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh and EC Corrigendum in Production Capacity- 4.08 MTPA Limestone; 1.51 MTPA inter-burden; Soil/ Alluvium 1.26 MTPA; Mine waste 0.18 MTPA and 0.58 MTPA sub-grade mineral [Total excavation 7.61 MTPA]</b>		
<b>Environment Clearance vide no F. No. J-11015/190/2016-IA. II (M) dated 31<sup>st</sup> August 2020 and Corrigendum in EC vide letter No. J-11015/190/2016-IA.II (M) dated 8<sup>th</sup> March, 2021</b>		
<b>Specific Condition</b>		
I.	Mining shall be restricted to the land already acquired near the Judi Village (about 235 ha). Meanwhile the PP may acquire the land, modify the mining sequence to avoid the void in west side of Dewra Village and approach the Ministry for re-validation or amendment in environmental clearance for permission for the entire area proposed for mining within the ML area	Agreed. Mining will be restricted to the area of 235 ha which is procured near to Judi Village and whenever we acquire remaining land we shall approach the Ministry for re-validation or amendment in environmental clearance for permission for the entire area proposed for mining within the ML area. Further we also assure that we shall modify the mining sequence to avoid the void in west side of Dewra Village before reaching to that area.
II.	The safety barrier of 100 m against the village / Habitation; 45 m on either side of the Nallah; 50 m on either side of the village roads shall be left as non-mining zone and thick green belt shall be developed with native species before commencement of mining operations in the area	Agreed. The safety barrier of 100 m against the village / Habitation; 45 m on either side of the Nallah; 50 m on either side of the village roads will be left as non-mining zone and thick green belt will be developed with native species before commencement of mining operations in the area
III.	No mining shall be carried up to 250 m distance from the bank of Ken River and an embankment of not less than 3 m height above the HFL shall be constructed and thick green belt shall be developed with native species before commencement of mining operations in the area	Agreed. Embankment will done at the bank of river and further thick green belt will be developed along the bank of river before commencement of mining operations in the area.
IV.	The PP shall adopt control basting with necessary permission from the Director General of Mines Safety within 300 m from the village / Habitation boundary and non-conventional mining with ripper dozer or other mechanical means by avoiding the blasting within 100 m from the village / Habitation boundary. Thick plantation with native and broad leaved species shall be developed in the safety barrier left against the Habitations before commencement of mining operations in the area.	Agreed. Control blasting with NONEL system will be adopted for the project. Necessary permission from the Director General of Mines Safety within 300 m from the village / Habitation boundary will be obtained. Non-conventional mining with ripper dozer or other mechanical means by avoiding the blasting within 100 m from the village / Habitation boundary will be considered. Thick plantation with native and broad leaved species shall be developed in the safety barrier left against the Habitations before commencement of mining operations in the area.

V.	The ground induced blasting vibrations shall be monitored regularly for every blast performed and the values of "Peak Particle Velocity" and "Air Over Pressure" shall be maintained below the permissible values prescribed by the DGMS, from time to time.	Agreed. The ground induced blasting vibrations will be monitored regularly for every blast performed and the values of "Peak Particle Velocity" and "Air Over Pressure" will be maintained below the permissible values prescribed by the DGMS, from time to time.
VI.	No external dumping of overburden and/or sub-grade material shall be made outside the mining lease area.	Agreed. No external dumping is proposed for the subject proposal. Concurrent backfilling is proposed from 3 <sup>rd</sup> year onwards.
VII.	Site specific conservation plan for all the Schedule-I species reported in the study area shall be implemented in consultation with State Forest Department as per the recommendations of Chief Wildlife Warden	Agreed. Conservation plan has been approved by Chief wild life warden of MP for schedule-I species of the area and will be implemented as per approval given in consultation with MP State Forest Department.
VIII.	Total Excavation shall not be exceeded to 7.61 which includes 4.08 MTPA Lime Stone, 0.58 MTPA sub-grade limestone, 1.51 MTPA Inter burden, Soil/Alluvium 1.26 MTPA, Mine Waste 0.18 MTPA.	Agreed. Total Excavation will not be exceeded to 7.61 which includes 4.08 MTPA Lime Stone, 0.58 MTPA sub-grade limestone, 1.51 MTPA Inter burden, Soil/Alluvium 1.26 MTPA, Mine Waste 0.18 MTPA.
IX.	Plantation shall be carried out as per the mining plan both concurrent and closer phase reclamation, inter alia, including plantation all along the boundary of the mining lease shall be completed within 2 years of commencement of mining operations, with a saplings of native and broad leaved species of not less than 12 feet and shall maintain the record of the same, gap plantation and grassing as per the directions of the Hon'ble Supreme Court	Agreed. Plantation will be carried out as per the mining plan both concurrent and closer phase reclamation as well as proposal given to the MoEFCC. Plantation will include peripheral plantation which shall be completed within 2 years of commencement of mining operations, with a saplings of native and broad leaved species of not less than 12 feet. Record will be maintained for the same, gap plantation and grassing as per the directions of the Hon'ble Supreme Court.
X.	The project proponent shall implement the commitments made on the issues raised in PH and activities proposed under CER, in a period of three years and record for the same shall be maintained and audited and reported to the Regional Office of the Ministry along with the compliance reports	Agreed. The commitments made on the issues raised in PH and activities proposed under CER, in a period of three years will be complied with its spirit. The record of the same will be maintained and details will be submitted to RO, MoEFCC along with half yearly compliance report.
XI.	All the mitigation measures committed / envisaged in the EIA/EMP report and subsequent submission shall be implemented.	Agreed. The proposal of mitigation measures for control of pollution will be implemented effectively.
XII.	In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in	Agreed. As per proposal re-grassing the mining area and any other area which may

	the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	have been disturbed due to other mining activities will be undertaken and restore the land to a condition which is fit for growth of fodder, flora, fauna etc after ceasing mining operations to comply with direction of honorable supreme court.
<b>B. Standard EC Conditions:</b>		
<b><u>I. Statutory compliance</u></b>		
1)	The EC granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc. required to be obtained or standards / conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project.	Agreed and noted for compliance.
2)	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	Noted & Comply. The subject proposal is green field project and mining operation is yet to be started.
3)	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.	The subject proposal is green field project and mining development/ operation is yet to be started.
4)	The Project Proponent shall follow the mitigation measures provided in MoEFCC's 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 villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	We assure that we will follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29 <sup>th</sup> October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
5)	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.	The copy of EC letter has been provided to concerned Panchayat vide letter No. PN/EMD/CWLA/F 12/012, dated 05.09.2020 and copy of the same already send to all concerns on 07.09.2020.
6)	State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days	The condition is related to SPCB.
7)	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of	The advertisement about the grant of EC letter for the project has been published in two local newspapers namely Dainik Jagran and Raj Express dated 04.09.2020 and copy of the same already send to all concerns on 07.09.2020.

	Environment, Forest and Climate Change ( <a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a> ). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.	
8)	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	Agreed and shall be complied if applicable in future.

## **II. Air quality monitoring and preservation**

9)	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.	We shall install a minimum of 03 online Ambient Air Quality Monitoring Stations with 01 in upwind and 02 in downwind direction based on meteorological data for monitoring of PM10, PM2.5, NO <sub>2</sub> , CO and SO <sub>2</sub> etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. We also assure that data shall be digitally displayed within 03 months in front of the main Gate of the mine site after commencement of mining operations.
10)	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board	We assure that we will implement measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. We also assure that for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points We shall explore the Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of fugitive dust control system.

## **III. Water quality monitoring and preservation**

11	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of	The NoC form CGWA has already been obtained vide no. CGWA/NOC/MIN/ORIG/2020/7359 dated 05.02.2020 for use of ground water as well as for intersection of water table during the course of mining operation and copy of the same already send on 07.09.2020.
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	ground water table shall essentially be based on detailed hydro-geological study of the area	
12)	<p>Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.</p>	<p>We assure that we will regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department.</p> <p>We also assure that we will report on changes in Ground water level and quality will be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.</p>
13)	<p>The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data 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, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.</p>	<p>Regular water quality will be performed as per proposal given under environmental monitoring programme for the parameters include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate.</p> <p>No alteration is proposed for Devra nalla which passing through the centre of the lease area.</p> <p>We assure that The monitoring of water courses/ bodies existing in lease area will be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data 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, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis after commencement of mining operations.</p>
14)	<p>Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS).</p> <p>The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. "J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.</p>	<p>Regular monitoring will be carried out as per the given direction. Being a lime stone mines, no acid mine drainage is anticipated.</p> <p>We assure that monitored data will be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. "J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change will be referred in</p>

		this regard after commencement of mining operations.
15)	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.	The rain water harvesting structure will be developed as per the approved hydrogeological study report and consultation with Central Ground Water Board.
16)	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.	Oil and grease trapping system is proposed for work shop effluent. We assure that we will maintain the standards as prescribed in Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB).
17)	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board / Committee.	Agreed and we will comply with the given direction.
<b>IV. Noise and vibration monitoring and prevention</b>		
18)	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines	We assure that we will monitored periodically the peak particle velocity at 500m distance or within the nearest habitation, whichever is closer as per applicable in line with the DGMS guidelines.
19)	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 /night hours	We assure that ensure that the biological clock of the villages will not be disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
20)	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	We assure that we will take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. will be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects.
<b>V) Mining Plan</b>		
21)	The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working ( method of mining, overburden & dump management, O.B. & dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).	We assure that we will execute the mining operation strictly as per approved mining plan in terms of total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B. & dump mining, mineral transportation mode, ultimate depth of mining,



		concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme.
22)	The mining shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.	We assure that we will execute the mining operation strictly as per approved mining plan. The concurrent backfilling will be started from 3 <sup>rd</sup> year onwards. We further assure that compliance status regarding monitoring and management of rehabilitated areas shall be submitted along with half-yearly to the MoEFCC and its concerned Regional Office.
<b><u>VI. Land reclamation</u></b>		
23)	The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.	The concurrent backfilling will be started from 3 <sup>rd</sup> year onwards. Dumps will be placed initially for two years only with the ML. It is proposed to develop plantation over backfilled area of 437.33 ha and 90.87 ha of bench area. Therefore, total area covered with plantation at the conceptual stage will be 528.20 Ha. The topsoil shall be used for land reclamation and plantation.
24)	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.	As submitted that The concurrent backfilling will be started from 3 <sup>rd</sup> year onwards. Dumps will be placed initially for two years only with the ML. The slope and angle of repose will be maintained as per the approved mining plan.  Only sub grade dump will remain there at the conceptual period of mining and dump mass shall be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass.
25)	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off as per the proposal submitted to the Ministry. We assure that the collected water will be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly
26)	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A	Agreed and assure for the compliance as per the given direction.



	safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	
<b>VII. Transportation</b>		
27)	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport]	It is an integrated project and cement plant is proposed at north of the mining lease area. The mineral will be transported within the lease area only through haul road up to the crusher. From crusher, the limestone will be transported through covered belt conveyer system to the cement plant. No village road will be utilized for the transportation of mineral.
28)	The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emission.	Permanent water sprinkling arrangement over main haulage road within the mine lease will be provided for dust suppression. We assure that other roads within the mine lease will be wetted regularly with tanker-mounted water sprinkling system. Dust suppression arrangements will be provided at other areas of dust generation like crushing zone, material transfer points, material yards etc. The crusher shall be provided with air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system and covered belt-conveyors.
<b>VIII. Green Belt</b>		
29)	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	<ul style="list-style-type: none"> <li>• Agreed &amp; noted for compliance.</li> <li>• It is proposed to develop plantation over area of 437.33 Ha. reclaimed by back filling. In addition to stabilize the slope of abandoned benches and peripheral area about 90.87 Ha. will also be afforested.</li> <li>• Therefore, total area covered at the conceptual stage will be 528.20 Ha. at an estimated cost of Rs. 751.95 Lakhs</li> <li>• <b>Mining activities Not start till date..</b></li> </ul>

30)	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees	Agreed & noted for compliance.
31	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted	Agreed. As per the directions of the Hon'ble Supreme Court dated 8th January, 2020, "The ML Holders will after ceasing mining operations, undertake re grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.", As per ADS reply during EC presentation vide letter No. PN/EMD/ MoEF/F 01/011, dated: 04.07.2020 and we shall comply with the given condition.

#### **IX. Public hearing and human health issues**

32)	Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	Being an integrated project all infrastructure facility inclusive of medical shall be provided during construction and operational phase. Occupational health system will be implemented and sustained.
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#### **X. Corporate Environment Responsibility (CER)**

33)	The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.	The area is economically backward and devoid of industrial growth. Implementation of the project will create employment opportunities, infrastructure development and other social benefits. Total Rs. 38.80 Crores has been earmarked (Plant & Mines) for Socio-Economic up-liftment of the PAFs and surrounding villages through CER programme. The details of CER expenses We have Expenses Rs. 159.48 Lakhs upto September' 2021. <b>Mining activities Not start till date.</b>
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#### **XI. Miscellaneous**

34)	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.	Agreed & noted for compliance. We assure that we will prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use
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		pattern and submit a report to concerned Regional Office of the MoEF&CC.
35)	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.	Agreed and will be complied as per given direction prior to commencement of mining operation.
36)	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	It will be ensured that six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board shall be submitted regularly.
37)	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.	A separate 'Environmental Management Cell' headed by GM (Env.) shall be established. The Senior Executive will directly report to GM (Env.). Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and the details will be submitted to RO, MoEFCC.
38)	The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data / information / monitoring reports.	Agreed and noted.
39)	In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	Agreed and noted for compliance.
25.	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection	Noted and agreed
26.	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, 19	Noted and agreed
27.	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 rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court and any other Court of Law relating to the subject matter.	Noted and agreed

28	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted and agreed
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Yours Sincerely  
For: Jaykaycem (Central) Limited



Aditya Pratap Singh  
(Authorised Signatory)