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# SHREE CEMENT LTD.

An ISO 9001, 14001, 45001 & 50001 Certified Company

Regd. Office:

BANGUR NAGAR, POST BOX NO.33, BEAWAR 305901, RAJASTHAN, INDIA

SCL/BWR/ENV/2021-22/

Date:-15/05/2021

To,  
The Deputy Director General of Forests (C),  
Ministry of Env., Forest and Climate Change,  
Integrated Regional Office, Jaipur,  
A-209&218, Aranya Bhawan, Mahatma Gandhi Road,  
Jhalana Institutional Area, Jaipur - 302004, Rajasthan

**Sub:- Compliance of conditions of environmental clearance letter of Shymagarh Limestone Mines of M/s Shree Cement Limited located at village Andheri Deori, Tehsil-Masuda, District Ajmer (Rajasthan).**

**Ref: - Environment Clearance letter No. J-11011/195/2009-IA-II (I) dated 04/11/2010.  
Environment Clearance letter No. J-11011/195/2009-IA-II (I)-Amendment in EC dated 14/10/2019**

Dear Sir,

In reference to the above subject matter and referred letter, we are submitting herewith the point wise compliance of conditions of the above environmental clearance letter for the period from, October, 2020 to March, 2021.

This is for your kind information please.

Thanking you,

Yours faithfully,

For Shree Cement Ltd.

(Dr. Anil Kumar Trivedi)  
Sr. G.M. (Environment)

- Cc to:-
1. The Director (Mining) Ministry of Environment, Forests & Climate Change, Indra Paryavaran Bhavan, Jorbag Road, New Delhi-110003
  2. The Addl. Principal Chief Conservator of Forest (C), Ministry of Environment Forest & Climate Change, Regional Office, Kendriya Bhawan, 5<sup>th</sup> Floor, Sector 'H' Aliganj, Lucknow (U.P.), Pin-226020.
  3. The In-Charge (Zonal Office), Central Pollution Control Board (CPCB), Vithal Market, Paryavaran Parisar, E-5 Arera Colony, Bhopal-462003(M.P.)
  4. The Member Secretary, Rajasthan Pollution Control Board, 4, Institutional Area, Jhalana Doongri, JAIPUR-302004(Rajasthan).

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**COMPLIANCE OF CONDITIONS OF ENVIRONMENT CLEARANCE LETTER NO.-I-11011/195/2009-IA  
II(I) dated 14/10/2019 OF SHYAMGARH LIMESTONE MINES OF M/S. SHREE CEMENT LIMITED,  
BEAWAR-AJMER(RAJASTHAN) Reg. Amendment in EC**

S. NO.	Conditions	Compliance Status
<b>Standard Conditions</b>		
<b>I</b>	<b>Statuary Compliance</b>	
1	This Environment Clearance (EC) is subject to Orders/ judgement of Hon'ble Supreme court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Cnditions as may be applicable.	Noted.
2	The Project Proponent complies with all the statuary requirements and judgment of Hon'ble Supreme court dated 2 <sup>nd</sup> Aug 17 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India and Ors before commencing the mining operations.	Complying with all the statutory requirements and judgment.
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 and Geology in strict compliance judgment of Hon'ble Supreme court dated 2 <sup>nd</sup> August, 2017 in writ petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Others.	It's Government's jurisdiction.
4	This Environmental Clearance shall become operational only after receiving formal NBWL clearance from MoEF&CC subsequent to the recommendations of the standing committee of National Board for Wildlife, if applicable to the project.	Not applicable as no wildlife sanctuary and national park is present within 10 KM radius of the Mines.
5	This Environmental clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.	Not Applicable as no forest land involved in mining lease area.
6	Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish/ Consent to Operate from the	Consent to Operate has been obtained by Board vide Board's file no: F(Mines)/Ajmer (Masuda)/1174(1)/2019-2020/226-230 dated 22.04.2019.

	concerned state Pollution Control Board/ Committee.	All conditions are stipulated therein are complying with.
7	The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development and Regulation), Act, 2015 and rules and regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.	<ul style="list-style-type: none"> <li>• Noted. All rules and regulation i.e. Mines &amp; Mineral (Development and regulation) are adhere and complying with.</li> <li>• All circulars issued/to be issue by DGMS are adhere/to be adhere.</li> </ul>
8	The project proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR act, 1957 and rules made there under in respect of lands which are not owned by it.	Consent from all concerned land owners has been obtained.
9	The project proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z- 11013/57/2014-IA. II (M), dated 29.10.2014, 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".	All mitigation measures provided.
10	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.	Noted, Presently water from mining pit constructed at Sheopura Kesarpua limestone mines area used for requirement in Shyamgarh mines, However, prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project shall be obtained, if needed.
11	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.	Copy of EC letter has been sent to concerned panchayat. <b>(attached as annexure I)</b>
12	State Pollution control board/ Committee shall be responsible for display of this EC letter at its Regional office, District Industries Center and Collector's office/ Tehsildar's Office for 30 days.	It is Board's responsibility.
13	The project authorities should widely advertise about the grant of this EC letter by printing the same in at least 2 local newspapers, one of which shall be in	Published on 22/10/2019. Copies of advertisement have been forwarded to the Regional office of MoEF&CC vide letter

	vernacular language of the concerned area. The advertisement shall be done in 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 Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF& CC regional office for compliance and record.	no SCL/ENV/Shyamgarh Mine/ 2019-20 dated 24.10.2019.
14	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 para 11 of EIA notification, 2006 as amended from time to time.	Noted. Shall be complied.
<b>II</b>	<b>Air Quality Monitoring and Preservation</b>	
15	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 deg is made between the monitoring locations to monitor critical parameters, relevant for mining operation, of air pollution viz. PM 10, PM 2.5, 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 3 months in front of the main gate of the mine site.	Procured 03 nos. of CAAQMS stations which is under progress for installation, got delayed due to Covid-19. Moreover, ambient air quality is being monitored at prominent places like office building, canteen etc.  Manual Monitoring at nearby villages is being conducted regularly ( <b>monitoring report attached as annexure II</b> )
16	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 PM 10 and PM 2.5 are evident such as haul road, loading and unloading point and transfer	Following measures are being done regularly for control the dust & fugitive emission. 1. Water spraying is regular practice on haul road. 2. Plantation has been developed along the mine lease boundary.

	<p>points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipment's/ 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 confirm to the standards prescribed by MoEF&amp;CC/ Central Pollution Control Board.</p>	<p>3. All movement roads have been concreted.</p>
<b>III</b>	<b>Water quality monitoring and preservation</b>	
1	<p>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 ground water table shall essentially be based on detailed hydro-geological study of the area.</p>	<p>Noted, Ground water table is not being intersected. Ultimate mining depth is above the general ground level.</p>
2	<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 maintained. The natural water bodies and or streams which are flowing in and around the village, should not be disturbed. The water table should be nurtured so as not to go down 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 well located in village should be incorporated to ascertain the impact of mining over ground water table. 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 Ground water Department/ State Pollution Control Board.</p>	<ul style="list-style-type: none"> <li>• No perennial nallahs flowing in an around the mining lease.</li> <li>• Arranging supply of drinking water through installation of water tanks and water huts and construction/ repairing of existing water systems at nearby villages.</li> <li>• Ground water level and quality of nearby villages are being conducted on regular basis and report of the same submitted to regional offices of the ministry, CGWA, SPCB on six monthly basis.</li> <li>• Monitoring report enclosed as <b>Annexure-III</b></li> </ul>
3	<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 piezometer installations during the mining operation in consultation with CGWA/</p>	<p>Complying with. <b>Report enclosed as Annexure-III.</b></p>

	<p>SGWD. 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 Ground water Department/ State Pollution Control Board.</p>	
4	<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 and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby / adjacent to mine lease and maintain its record. Sufficient number of gullies shall be provided at appropriate places within the lease for the management of water. PP shall carryout regular monitoring w.r.t pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-a-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 MoEF&amp;CC. The monitoring of water courses/ bodies existing in lease area shall be carried out 4 times in a year viz. Pre-monsoon (April-May), monsoon (August), Post- monsoon (November) and Winter (January) and record of monitored data may be sent regularly to MoEF&amp;CC and its regional Office, CGWA &amp; Regional Director, CGWB, SPCB and CPCB. Clearly showing the trend analysis on six monthly basis</p>	<ul style="list-style-type: none"> <li>• No Natural water course/water resources /springs and perennial nallahs flowing in an around the mining lease area.</li> <li>• Monitoring of ground water quality and level being carried out regularly as per Guidelines of CGWA.</li> </ul>

5	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). 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 MoEF&CC may also be referred in this regard.	<ul style="list-style-type: none"> <li>• There is no source of polluted water generation.</li> <li>• The domestic waste water disposed off in soak pit via septic tank.</li> </ul>
6.	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 CGWB/SGWD. A report on amount of water recharges needs to be submitted to Regional Office MoEF&CC annually.	Noted. Presently rain water directly recharge through open land. However, for harvesting of rain water mine pit shall be constructed.
7	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 SPCB. The workshop effluent shall be treated after its initial passage through Oil and Grease trap.	There is no industrial waste water generation. Maintenance of HEMMs and other vehicles is being carried out in our existing SK mines workshop.
8	The water balance/ water auditing shall be carried out and measures for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and SPSB/ Committee.	Water balance/water audit have been done by M/s FICCI. <b>Report enclosed as Annexure-IV</b>
<b>IV</b>	<b>Noise and Vibration monitoring and prevention</b>	
9	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Complying with.

10	<p>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 and keeping the noise levels well within the prescribed limits for day/night hours.</p>	<ul style="list-style-type: none"> <li>• Control blasting is being done in most scientific manner by using shock tube detonators during day time to control noise level, vibration, &amp; fly rock etc.</li> <li>• Only day time blasting is in process.</li> <li>• Noise level monitoring is being carried out on regular basis &amp; submitted to the MoEF&amp;CC, RSPCB. Monitoring results of ambient noise quality is attached herewith as <b>Annexure- V</b>.</li> <li>• Noise level of day/nights hours are well within the norms.</li> <li>• Lux level monitoring is being carried out at mine lease boundary.</li> </ul>
11	<p>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 plug/ muffs. All personal 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.</p>	<ul style="list-style-type: none"> <li>• All Personal protective equipment's i.e ear plug, mask etc. is being provided to workers and employee for safe working.</li> <li>• Various in-house training being provided to workers for safety and health aspects for awareness and implementation at workplace.</li> </ul>
<b>V</b>	<b>Mining Plan</b>	
12	<p>The Project proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral and waste production, lease area and scope of working (Viz. Method of mining, overburden and dump management, OB and dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the MoEF&amp;CC, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or Granted by State Govt. In the form to Short Term Permit (STP), Query license or any other name.</p>	<p>Complying with. All working parameters are as per mining plan submitted at the time of EC appraisal.</p>

13	The project proponent shall get the final Mine Closure along with Financial Assurance approved from Indian Bureau of Mines/ Department of Mining and Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the MoEF&CC for record and verification.	Noted, shall be complied.
14	The land -use of mine lease area at various stages of mining scheme as well as at the end of life 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 MoEF&CC and its concerned Regional Office.	Noted, shall be complied.
<b>VI Land Reclamation</b>		
15	The Overburden (O.B.) 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 dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/ Circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/ OB dumps. The topsoil shall be used for land reclamation and plantation.	<ul style="list-style-type: none"> <li>• No OB dump at site, However, retaining wall of 50 meter length has been constructed which is further extended to 100 meter to around the designated OB Dump site.</li> <li>• There is no top soil and the limestone is exposed on surface.</li> </ul>
16	The reject/ waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved mining plan as per the guidelines/ circulars issued by DGMS w.r.t. safety in mining operations shall be strictly	Complying with.

	adhered to maintain the stability of waste dumps.	
17	The reclamation of waste dump sites shall be done in scientific manner as per the approved mining plan cum progressive Mine closure plan.	Noted, waste dump sites shall be done in scientific manner as per the Approved mining plan cum progressive Mine closure plan.
18	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.	Noted, slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability prevent erosion and surface run off.
19.	The project proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.	Noted, shall be complied.
20.	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.	<ul style="list-style-type: none"> <li>• 75 m of Garland drains have been constructed for de-silting around proposed waste dump yard location, also 500 m of garland drains have been constructed around ML area to prevent run off of water and flow of sediments. Settling tanks and check dams of appropriate size, gradient and length will be constructed as mining operation continues.</li> <li>• Retaining wall of 50 meter length has been constructed which is further extended to 100 meter to around the designated OB Dump site.</li> </ul>
21.	Check dams of appropriate size, gradient and length shall be constructed around mine pit an OB dump to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for	<ul style="list-style-type: none"> <li>• 75 m of Garland drains have been constructed for de-silting around proposed waste dump yard location, also 500 m of garland drains have been constructed around ML area to prevent run off of water</li> </ul>

	<p>designing of sump structure 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 setting of sediments/silt material. The sedimentation pits/sumps shall be constructed at the corners of the garland drains.</p>	<p>and flow of sediments. Settling tanks and check dams of appropriate size, gradient and length will be constructed as mining operation continues.</p> <ul style="list-style-type: none"> <li>• Retaining wall of 50 meter length has been constructed which is further extended to 100 meter to around the designated OB Dump site</li> </ul>
22.	<p>The top soil, if any, shall temporarily be stored earmarked site (s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved mining plan and as per the guidelines framed by DGMS w.r.t safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.</p>	<p>There is no Top soil. Limestone is exposed on surface.</p>
23.	<p>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 and adequate gap (say at least 200 meters) so that adverse impact of sound and dust along 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 emission 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.</p>	<p>Noted, No transportation of the minerals being done roads passing through villages/habitations.</p> <p>Vehicular emission shall be kept under control and regularly monitored</p>

24	<p>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 yard etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment's 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 emissions.</p>	<ul style="list-style-type: none"> <li>• Regular water sprinkling is being done on haul roads.</li> <li>• Permanent water sprinkling arrangement for dust suppression shall be installed on main haulage road.</li> <li>• Water sprinklers/ sprayers and Bag filters have been installed at various points such as crushing zone, material transfer points, and material yard etc., installed at SK Mines.</li> </ul>
25.	<p>The project proponent shall develop greenbelt in 7.5 wide safety zone all along the mine lease boundary as per the guideline 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.</p>	<p>Noted, Greenbelt of width 7.5 meter shall be developed all along the mine lease boundary as per the guideline of CPCB in order to arrest pollution emanating from mining operations within the lease.</p> <p>2720 Nos. of trees have been planted at 3.23 ha. Area near dumping site near mine boundary from April 2020 to March 2021.</p>
26.	<p>The project proponent shall carryout plantation/afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community area 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 be 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.</p>	<p>Noted, Shall be complied.</p>

27.	<p>The project proponent shall make necessary alternative arrangement 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.</p>	<ul style="list-style-type: none"> <li>• The support for animal welfare (including construction of living space for livestock, contribution for cattle feed is ongoing process under CSR Activity.</li> <li>• Plants with tree guards and labor expenses being provided to nearby villages under CSR activity.</li> </ul>
28.	<p>The Project proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-1 species during mining operation. A Wildlife conservation plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The shall be approved be Chief Wild Life Warden of the State Govt.</p>	<p>Not applicable as there are no endangered flora and fauna and <b>Schedule-1</b> species observed in study area.</p>
29.	<p>And implemented in consultation with the State forest and wildlife department. A copy of wildlife conservation plan and its implementation status (annual) shall be submitted to the Regional office of the ministry.</p>	<p>Not Applicable as there are no endangered flora and fauna and <b>Schedule-1</b> species in study area</p>
30.	<p>The project proponent shall appoint an Occupational health specialist for regular as wells as periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check –ups shall be undertaken once in six months and necessary remedial/preventive measures be taken. A status report on the same may be sent to MoEF&amp;CC Regional office and DGMS on half-yearly basis.</p>	<p>Complying with, Occupational health programmers are being organized on a regular basis and records are maintained. The program is organized once in six months. PPEs are being provided.</p> <p>Occupational health report enclosed as <b>Annexure-VI</b></p>

31.	<p>The project proponent must demonstrate commitment to work towards 'Zero harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community . The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health problems like Malaria, Tuberculosis, HIV, Anemia, Diarrhea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for sanitation, personal hygiene, hand washing, not to defecate in open, Women Health and Hygiene (providing Sanitary Napkins) hazard of tobacco and alcohol use. The proponent shall carryout base line HRA for all the category of workers and thereafter every five years.</p>	<p>Noted, shall be complied.</p> <p>Following awareness session being organized regularly for create awareness:</p> <ul style="list-style-type: none"> <li>• Arranging health camps and provisions of medicines and other facilities including financial assistance for arranging health camps</li> <li>• Mamta Project being orgainzed (Health centres for medication, check-ups, counseling, nutrition, etc. for pregnant women of nearby areas) for create awareness among the women for hygiene.</li> <li>• Contribution towards development of sanitation facilities in nearby villages/ distribution of hygienic products to prevent from diseases</li> <li>• Providing oxygen cylinder to fight against COVID-19.</li> <li>• Various training and awareness programs at schools, panchayat are being organized on hygiene, hand washing, women health &amp; identification of hazard of tobacco and alcohol use</li> </ul>
32	<p>The proponent shall carry out occupational health surveillanc which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure e.g for Dust a X-Ray chest; for noise audiometric ; for lead exposure blood lead, for welders full ophthalmologic assessment; for Manganese miners a complete neurological assessment by a certified neurologist, and Manganese (Mn) estimation in blood; for inorganic chromium-fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried in a Lab accredited by NABH, records of health surveillanc must be kept for 30 years, including the results of and the records Physical examination and tests. The record of exposure due to materials like asbestos, hard rock mining silica, gold, kaolin, aluminum, iron, manganese, chromium, lead, uranium need to be handed over to the Mining department of the State in case the life of the mine is less than 30 years. It would be obligatory for the states mines departments to make arrangements for the safe and secure storage of the records including X-Ray. Only</p>	<p>Noted, shall be complied, in addition to existing Occupational health program which are being organized on a regular basis.</p>

	conventional X-Ray will be accepted for record purpose and not the digital one. X-Ray must meet ILO criteria (17 x 14 inches and of good quality).	
33	The proponent shall maintained a record of performance indicators for workers which included (a) there should not be a significant decline in their body mass index and it should stay between 18.5- 24.9, (b) the final chest X-ray compared with the base line X-Ray should not show any capacities, (c) at the end of their leaving job there should be no diminution in their lung functions forced expiratory volume in one second (FEV1), Forced vital capacity (FVC), and the ration) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof and audiogram (first and last need to be presented), (e) they should not have developed any persistent Back pain, neck pain, and the movement of their hip, knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the regional office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.	Noted, shall be complied, in addition to existing Occupational health program which are being organized on a regular basis.
34	The project proponent shall ensure that 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	Complying with, PPEs are being provided to all personnel.  Adequate training and information on safety and health aspects is also being provided regularly.
35	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 completion of the project related 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.	Housing, fuel, toilets with soak pits and septic tanks, safe drinking water, medical health care etc. are provided to labors.

36.	The activities proposed in action plan prepared for addressing the issues raised during the public hearing shall be completed as per the budgetary provisions mentioned in the Action plan and within the stipulated time frame. The status report on implementation of Action plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.	Complying with.
37.	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 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.	Company is engaged in extensive social welfare works under CSR activities. Total expenses on social welfare activity for the year 2019-20 was 563.76 lacs for all units cement, power & mines.
38.	Project proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purpose. The year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office.	The expenditure incurred on compliance of environmental safeguards for the FY-2019-20 was 83.96 lakhs respectively.
39.	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.	Noted, and shall be complied.
40.	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.	Financial closure and final approval of the project shall be informed the Regional Office as well as the Ministry.
41.	The project proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC & its concerned Regional office, Central Pollution Control Board and State Pollution Control Board.	Six monthly compliance report is being submitted to Regional Office of MoEF&CC , the respective Zonal Office of CPCB and SPCB.
42.	A Separate 'Environmental Management Cell' with suitable qualified manpower should be	A separate environment management cell with full-fledged laboratory facilities has

	<p>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, MoEF&amp;CC.</p>	<p>been set up to carry out various management and monitoring functions under the control of Senior executive who is reporting to the whole time director (WTD).</p>
43.	<p>The concerned regional office of the MoEF&amp;CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&amp;CC officer(s) by furnishing the requisite data/information/monitoring reports.</p>	<p>Noted, full cooperation shall be provided to MoEF&amp;CC officer(s)</p>

**Annexure: II**

Shree Cement Limited,

Shyamgarh Mines

Near village Shyamgarh-Neemgarh Tehsil-Masuda, District-Ajmer (Rajasthan).

**1. Ambient Air Quality Monitoring Data :**

**Period: : October,2020 to March,2021 :- (All values in µg/m3)**

<b>Location</b>	<b>Near village Kelkhera</b>				<b>Near Village Shyamgarh</b>				<b>Near village Karwal</b>				<b>Near Village Nimgarh</b>			
	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>2</sub></b>
<b>Month</b>																
<b>Oct-20</b>	53	22	6	11	46	24	12	10	45	23	10	12	42	25	6	9
<b>Nov-20</b>	50	22	7	11	48	23	10.2	12	46	20	7	6	42	20	8	9
<b>Dec-20</b>	51	22	7	8	42	25	10	8	42	12	15	8	48	23	4.5	5.3
<b>Jan-21</b>	42	19	8	12	48	23	10	9	42	23	10	12	42	25	6	9
<b>Feb-21</b>	45	22	8	11.2	47	22	9	8	44	22	8	12	50	23	12	10
<b>Mar-21</b>	43	21	12	15	48	20	8	7	46	21	7	10.2	53	22	10	9

**Annexure-V**

**2. Ambient Noise Level Monitoring Data:-**

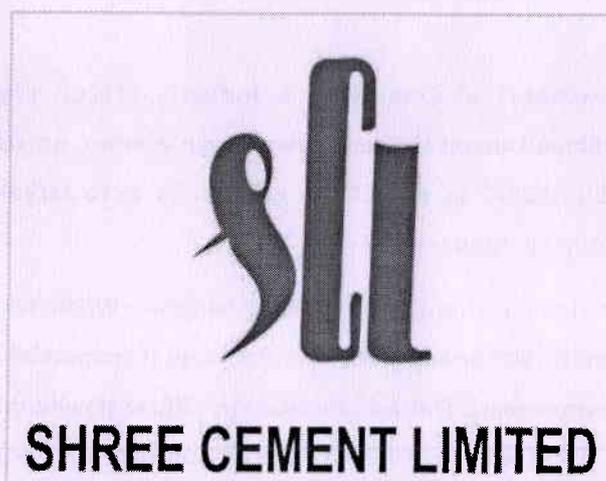
**Period: : October,2020 to March,2021:- (Leq-dB(A) )**

Location Month	Near village Kelkhera		Near Village Shyamgarh		Near village Karwal		Near Village Nimgarh	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Oct-20	58.2	53.4	51	47	61.3	57.9	66.8	51.2
Nov-20	62.5	53.3	55	48	63	55	65.3	48.3
Dec-20	60.5	53	52	43	64.3	58.3	68.6	55.3
Jan-21	58.2	53.4	51	47	61.3	57.9	66.8	51.2
Feb-21	60.2	55.4	61.2	48.1	59	45	66	55
Mar-21	65	55	62	47	61	42	58.9	48.3

Water Level (Meter) - Shyamgarh Limestone Mine.								
S.N	Location	Year	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
1	Open well Nr.Village-Khetakhera	2020-21	1.8	1.7	2.1	3.2	4.2	4.53
2	Open well Nr. Village-Shyamgarh	2020-21	1.5	1.5	2.1	3.4	8.4	9.01
3	Open well Nr. Village-Karwai	2020-21	2.2	2.5	4.9	9.1	11.9	12.5
4	Open well Nr. Village-Neemgarh	2020-21	3.15	4.9	5.95	11.9	12.8	13.8
5	Open well Nr. Village-Badiya Bhau	2020-21	6.1	6.2	7.9	10.9	14.1	17.9

Year	Month	Day	Time	Location	Remarks
1957	III	20	10:00	...	...
1957	III	21	10:00	...	...
1957	III	22	10:00	...	...
1957	III	23	10:00	...	...
1957	III	24	10:00	...	...
1957	III	25	10:00	...	...
1957	III	26	10:00	...	...
1957	III	27	10:00	...	...
1957	III	28	10:00	...	...
1957	III	29	10:00	...	...
1957	III	30	10:00	...	...
1957	III	31	10:00	...	...

**Report  
on  
Water Audit Study  
At  
Shree Cement Limited Beawar  
Vill- Andheri Deori, Tehsil-Masuda, Distt- Ajmer (Rajasthan)**



**Prepared by**



**Resource Conservation & Management Division  
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**(January 2021)**



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## **ACKNOWLEDGEMENT**

Federation of Indian Chambers of Commerce & Industry (FICCI) places on record its sincere thanks to **M/s Shree Cement Limited Beawar, Rajasthan** for entrusting the task of conducting "Water Audit Study" as per CGWA guidelines at to **M/s Shree Cement Limited Beawar, Rajasthan** Plant during January 12-14, 2021.

We hereby express our sincere thanks to **Shri PN Chhangani – Whole Time Director, Shri Sanjay Mehta - President (Commercial), Shri Arvind Khicha - Jt. President (Commercial), Dr. Anil Kumar Trivedi - Sr. General Manager (Environment), Shri Adil Habeeb, Sr. Officer (Environment)** from **M/s Shree Cement Limited Beawar, Rajasthan** for their proactive support and courtesy extended to the FICCI team during field study. We also thank other officials from the Plant for their cooperation and support provided during data collection. We are also grateful to all those we interacted with during the audit who gave us some operational insights.

We hereby submit the Water Audit Report for your reference.

**M A Patil**  
Sr. Director  
RCM Group, FICCI  
New Delhi

