

UDAIPUR CEMENT WORKS LIMITED

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UCWL/ENV/Mine-1&2/EC/ 1555 O/C

Date: 24/11/2017

To,
Ministry of Environment & Forests
Regional Office (Central Region)
Kendriya Bhawan, 5th Floor
Sector 'H' Aliganj
LUCKNOW – 226 024

Sub: Submission of six monthly compliance reports of conditions of Environmental Clearances of Daroli Limestone Mine-1 & 2 (ML. No. 02/88(new no. 186/08) & 64/79(new no. 23/01)) respectively by M/s Udaipur Cement Works Ltd. located in village- Daroli, Tehsil- Vallabhnagar, Distt.-Udaipur(Raj.)

Ref: 1. Environmental clearance letter no. J-11015/460/2006-IA II (M), Dated 02/01/2009 & 2. Environmental clearance letter no. J-11015/453/2006-IA II (M), Dated 05/01/2009

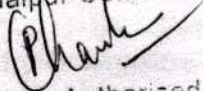
Dear Sir,

With reference to the above Environmental clearance letters dated 02/01/2009 & 05/01/2009, we are submitting herewith six monthly compliance reports of Daroli Limestone Mines- 1 & 2 for the duration of **April-17 to September-17** as per **annexure- 1 & 2** respectively.

We hope you will find the above in order.

Thanking you,

Yours faithfully
For Udaipur Cement Works Ltd.
For Udaipur Cement Works Ltd.


Authorised Signatory
P. K. Chouhan
(General Manager - QC)

Encl: As above

CC to: 1. The Director (Industry),
Ministry of Environment & Forests,
Indira Paryavaran Bhawan. Jor Bagh,
New Delhi-110003

2. The In-Charge (Zonal Office),
Central Pollution Control Board (CPCB),
3rd Floor, Sahkar Bhawan,
North T.T. Nagar, Bhopal-462003(M.P.)

3. The Member Secretary, RSPCB - Jaipur

4. Regional Officer, RSPCB - Udaipur

Name of the Project: Daroli Limestone Mine -1 (M.L. No. 02/88 (186/08(Renewal)))

EC Letter No.: J-11015/460/2006-IA II (M), Dated 02/01/2009

Period of Compliance Report: APR, 2011 – SEPT., 2017

Specific Conditions:

S/N	CONDITIONS	COMPLIANCE
1	The project proponent shall obtain Consent to Establish from the Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein.	M/s Udaipur Cement Works Ltd (UCWL) had obtained Consent to Establish vide letter no. F(Mines)/Udaipur(Vallabh Nagar/1(1)/2009-2010/1789 Dated 16/07/2009.
2	The environmental clearance is subject to approval of the State Land use Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use.	The lease area is notified area by Deptt. of Mines & Geology, Raj. It is exclusively reserved as a captive mine for setting up a cement plant.
3	The top soil, if any, shall temporarily be stores at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	There is no top soil. Hence, not applicable.
4	The project proponent shall ensure that no natural watercourse and /or water resources shall be obstructed due to any mining operations. The Daroli tank and the seasonal streams passing through the lease area shall be protected and left undisturbed.	UCWL ensures that no natural watercourse and /or water resources will be obstructed due to any mining operations. The Daroli tank and the seasonal streams passing through the lease area will be protected and left undisturbed.
5	The inter burden 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 and their phase-wise stabilization shall be carried out. There shall be three external dumps. The maximum height of the dumps shall be 18m having two terraces of 9m each, and the overall slope of the dumps shall be 27°C. The inter burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Lucknow on six monthly basis.	Dump sites for inter burden has been earmarked as per the condition no. 5. Provisions for stacking of inter burden within the lease area have been clearly marked & approved in the Mining Plan. The conditions have been taken into consideration in the progressive mine closure plan (A part of mining plan thoroughly screened & approved by IBM). The inter burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining.
6	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and inter burden dump(s) to prevent run off of water and flow of sediments directly into the Berach River, the Daroli tank, the seasonal streams passing through the lease area 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 the monsoon and maintained properly.	Catch drains and siltation ponds have been constructed around the mine working and inter burden dumps to prevent run off of water and flow of sediments directly into Berach River, Daroli tank, the seasonal streams passing through the lease area and other water bodies. The water so collected will be utilized for watering the mine area, roads, green belt development etc. The drains are regularly desilted particularly after the monsoon and maintained properly.

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	<p>Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and the inter burden dumps to prevent run off of water and flow of sediments directly into the Berach River, the Daroli tank, the seasonal streams passing through the lease area 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 the silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>Garland drains, settling tanks & check dams have been constructed around the mine pit and the inter burden dumps to prevent run off of water and flow of sediments directly into the Berach River, the Daroli tank, the seasonal streams passing through the lease area and other water bodies. Sedimentation pits have been constructed at the corners of the garland drains and desilted at regular intervals.</p>
7	<p>The void left unfilled in an area of 260ha shall be converted into the water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slopes of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.</p>	<p>UCWL ensures to convert mentioned area into the water body after completion of mining activity as per the Final Mine Closure Plan (FMCP). The higher benches of excavated void/mining pit will be terraced and plantation shall be done to stabilize the slopes. The slopes of higher benches will be made gentler for easy accessibility by local people.</p>
8	<p>Dimension of the retaining wall at the toe of the inter burden dump(s) and the inter burden benches within the mine to check run-off and siltation should be based on the rainfall data.</p>	<p>Dimensions of the retaining wall at the toe of dumps and the inter burden benches within the mine to check run-off and siltation have been kept based on the rainfall data.</p>
9	<p>Regular monitoring of the Daroli tank shall be carried out and records maintained.</p>	<p>Daroli tank monitoring is being done and records are maintained</p>
10	<p>Plantation shall be raised in an area of 154ha including a 7.5m wide green belt in the safety zone around the mining lease, inter burden dumps, mine benches and around the water body, around Daroli tank, roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 1500 plants per ha.</p>	<p>UCWL will increase plantation in an area of 154 ha and the density of the trees shall be maintained as prescribed in the condition no. 10 in consultation with local villagers & authorities as & when required.</p>
11	<p>Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.</p>	<p>UCWL has ensured regular sprinkling through water tankers along the haul roads. Water spray system is installed on conveyor belts near to material transfer point and dump hopper.</p>
12	<p>The project proponent shall take adequate environmental safeguard measures to protect the Berach River flowing adjacent to the mine lease and regularly monitor the water quality upstream and downstream of the River and record of monitoring data should be maintained and submitted to the Ministry of Environment and</p>	<p>UCWL ensures to take adequate environmental safeguard measures to protect the Berach River flowing adjacent to the mine lease. Water quality monitoring of Berach river is being done on regular basis and records of the same are maintained.</p>

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	Forests, its Regional Office, Lucknow, the Central Groundwater Authority, the Regional Director, Central Ground Water Board, the State Pollution Control Board and the Central Pollution Control Board.	
13	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Suitable conservation measures i.e. Loose stone check dams, dugout ponds, recharge trenches, earthen check dams etc. have been developed to augment ground water resources.
14	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 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 the Ministry of Environment and Forests and its Regional Office, Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	Monitoring of groundwater level and quality is being done as per the schedule and reports are being submitted to the Ground water board and Ground water authority.
15	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of ground water for the project.	UCWL has obtained NOC for ground water withdrawal vide letter no. 21-4(211)/WR/CGWA/2007-626 dated 22.04.2016
16	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Suitable rainwater harvesting measures i.e. Loose stone check dams, dugout ponds, recharge trenches, earthen check dams, artificial rain water harvesting structures etc. have been developed.
17	Appropriate mitigative measures shall be taken to prevent pollution of the Berach River, in consultation with the State Pollution Control Board.	UCWL ensures to take appropriate mitigative measures to prevent pollution of the Berach River in consultation with the State Pollution Control Board.
18	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles use in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	UCWL ensures to control and monitor vehicular emissions regularly. Necessary guidelines have been given for all HEMS & other vehicles to be used in the mining area.
19	No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	UCWL ensures to carry out blasting only during the day time with controlled blasting practice.
20	Drills shall either be operated with dust extractors or equipped with water injection system.	UCWL ensures to operate drills with water injection system.
21	Mineral handling area shall be provided with	High efficiency dust extraction systems are

	adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	being installed in mineral handling area and material transfer points.
22	Consent to operate shall be obtained from the State Pollution Control Board prior to start of enhanced production from the mine.	UCWL has obtained Consent to Operate of Daroli Limestone Mine-1 vide RSPCB letter no.F(Mines)/Udaipur(Vallabhnagar)/82(1)/2016 -2017/3975-3980 dated 23/06/2016
23	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Schedule of health examination of workers has been made & medical examination is being carried out accordingly.
24	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and the wastewater generated during the mining operation.	Residence of mining staff has been kept in colony of cement plant, where STP has already been installed for treatment of domestic wastewater. ETP has been installed at mines workshop.
25	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the Project.	Complied
26	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 the Ministry of Environment and Forests and its Regional Office, Lucknow.	UCWL ensures to carry out digital processing using remote sensing technique regularly once in three years.
27	A final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	UCWL will submit mine closure plan according to condition no. 27.

General conditions:

1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	UCWL ensure that change in mining technology and scope of working will not be done without prior approval of the MoEF.
2	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	Noted
3	Conservation measures for protection of flora and fauna in the core & buffer zone shall be drawn up in consultation with the local forest and wildlife department.	UCWL ensures to draw conservation measures for protection of flora and fauna in the core & buffer zone in consultation with the local forest and wildlife department.

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4	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, SO ₂ & NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	UCWL has established four nos. ambient air quality monitoring stations in the core zone as well as the buffer zone for RSPM, SPM, SO ₂ & NOx monitoring.
5	Data on ambient air quality (RSPM, SPM, SO ₂ & NOx) should be regularly submitted to the Ministry including its Regional Office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.	Noted & complied. The monitoring data are as tabulated below:

Ambient Air Quality Data (Apr. 17 to Sept. 17)

Ambient Air Quality Stations	PM - 10 (µg/m ³)			PM - 2.5 (µg/m ³)			SOx (µg/m ³)			NOx (µg/m ³)		
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
Near Ropeway Unloading Point	60.32	39.65	47.70	34.29	19.49	24.84	6.25	4.36	5.39	12.15	8.54	9.60
Near Mines Office	53.42	32.27	41.77	30.54	17.52	21.90	6.54	4.77	5.42	11.65	7.46	9.38
Near Pandumata Temple	55.29	36.36	43.94	24.16	12.77	19.95	7.37	4.62	5.59	10.22	6.98	8.29
Near Daroli Tank	52.74	38.34	48.21	29.03	15.62	23.44	6.24	4.67	5.36	13.27	7.46	9.74

6	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	UCWL ensure to control regularly fugitive dust emissions from all sources. Water spraying arrangements have been provided on haul roads, loading & unloading and at transfer points.
7	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.	Measures have been taken for control of noise levels below prescribed limit in the work environment. UCWL ensures use of ear plugs/muffs to workers engaged in operations of HEMM etc.
8	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	ETP has been installed.
9	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	PPE's have been already provided. UCWL ensures use of protective respiratory devices for personnel working in dusty areas & provide adequate training and information on safety & health aspects. Health checkup is conducted on regular basis as per the requirement define by the IBM.

10	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	UCWL has a separate Environmental Management Cell under the control of senior executive to take care of monitoring and other issues related to environment.
11	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 located at Lucknow.	UCWL has kept the funds earmarked for environmental protection measures & ensures not to divert for other purpose.
12	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Noted, all the project work is within the existing premises of UCWL, no additional land is proposed.
13	The Regional Office of this Ministry located Lucknow 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.	Noted
14	The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Lucknow, Central Pollution Control Board.	Six monthly report is regularly being submitted to concerned Regulatory Authorities.
15	The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office Lucknow, Central Pollution Control Board.	Complied.
16	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
17	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.	Copy of Environmental Clearance had been submitted to Rajasthan State Pollution Board.
18	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, with in 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 and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	UCWL had published Environmental Clearance in two local newspapers Dainik Bhaskar & Rajasthan Patrika on dated January 20 th 2009.

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Name of the Project: Daroli Limestone Mine-2 (M.L. No. 64/79 (23/01 (Renewal))

EC Letter No.: J-11015/453/2006-IA II (M), Dated 05/01/2009

Period of Compliance Report: Apr. 2017 to Sept. 2017

Specific Conditions:

S/N	CONDITIONS	COMPLIANCE
1	The project proponent shall obtain Consent to Establish from the Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein.	M/s Udaipur Cement Works Ltd (UCWL) had obtained consent to establish vide letter no. F (Mines)/Udaipur (Vallabhnagar/1(1)/2009-2010/1794 Dated 16/07/2009.
2	The environmental clearance is subject to approval of the State Land use Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use.	The lease area is notified area by Deptt. of Mines & Geology, Raj. It is exclusively reserved as a captive mine for setting up a cement plant.
3	Mining shall be carried out in accordance with the provisions of various acts and rules leaving the safety distance from the National Highway 76 (NH 76) passing through the mine lease.	UCWL ensures to carry out mining with the provisions of all the applicable acts and rules.
4	The top soil, if any, shall temporarily be stores at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	There is no top soil, hence, not applicable.
5	The project proponent shall ensure that no natural watercourse and /or water resources shall be obstructed due to any mining operations.	UCWL ensures that no natural watercourse and /or water resources shall be obstructed due to any mining operations.
6	The inter burden 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 and their phase-wise stabilization shall be carried out. There shall be three external dumps. The maximum height of the dumps shall be 18m having two terraces of 9m each, and the over all slope of the dumps shall be maintained 28 °C. The inter burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Lucknow on six monthly basis.	Dump sites for inter burden has been earmarked as per the condition no. 6. Provisions for stacking of inter burden within the lease area have been clearly marked & approved in the Mining Plan. The conditions have been taken into consideration in the progressive mine closure plan (A part of mining plan thoroughly screened & approved by IBM). The inter burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining.
7	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and inter burden dump(s) to prevent run off of water and flow of sediments directly into the Berach River, the Daroli tank and other water bodies. The water so collected should be utilized for water the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.	Catch drains and siltation ponds have been constructed around the mine working and inter burden dumps to prevent run off of water and flow of sediments directly into Berach River, Daroli tank, the seasonal streams passing through the lease area and other water bodies. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be

	Garland drains, setting tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and the inter burden dumps to prevent run off of water and flow of sediments directly into the Berach River, the Daroli tank 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 the silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.	regularly desilted particularly after the monsoon and maintained properly. Garland drains, settling tanks & check dams have been constructed around the mine pit and the inter burden dumps to prevent run off of water and flow of sediments directly into the Berach River, the Daroli tank, the seasonal streams passing through the lease area and other water bodies. Sedimentation pits have been constructed at the corners of the garland drains and shall be desilted at regular intervals.
8	The void left unfilled in an area of 118ha shall be converted into the water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slopes of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.	UCWL ensures to convert mentioned area into the water body after completion of mining activity as per the Final Mine Closure Plan(FMCP). The higher benches of excavated void/mining pit will be terraced and plantation shall be done to stabilize the slopes. The slopes of higher benches will be made gentler for easy accessibility by local people.
9	Dimension of the retaining wall at the toe of the inter burden dump and the inter burden benches within the mine to check run-off and siltation should be based on the rainfall data.	Dimensions of the retaining wall at the toe of dumps and the inter burden benches within the mine to check run-off and siltation have been kept based on the rainfall data.
10	Regular monitoring of the Daroli tank shall be carried out and records maintained.	Daroli tank monitoring is being done and records are maintained
11	Plantation shall be raised in an area of 62ha including a 7.5m wide green belt in the safety zone around the mining lease, inter burden dump, mine benches and around the water body, around Daroli tank, roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 1500 plants per ha.	UCWL will increase plantation in an area of 62 ha and the density of the trees shall be maintained as prescribed in the condition no. 11 in consultation with local villagers & authorities as & where required.
12	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	UCWL has ensured regular sprinkling through water tankers along the haul roads. Water spray system is installed on conveyor belts near to material transfer point and dump hopper.
13	The project proponent shall take adequate environmental safeguard measures to protect the Berach River flowing in the buffer zone of the mine lease and regularly monitor the water quality upstream and downstream of the River and record of monitoring data should be maintained and submitted to the Ministry of Environment and Forests, its Regional Office, Lucknow, the Central Groundwater	UCWL ensures to take adequate environmental safeguard measures to protect the Berach River flowing adjacent to the mine lease. Water quality of Berach river is being done on regular basis and records of the same are maintained.

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	Authority, the Regional Director, Central Ground Water Board, the State Pollution Control Board and the Central Pollution Control Board.	
14	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Suitable conservation measures i.e. Loose stone check dams, dugout ponds, recharge trenches; earthen check dams etc. have been developed to augment ground water resources.
15	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 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 the Ministry of Environment and Forests and its Regional Office, Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	Monitoring of groundwater level and quality is being done as per the schedule and reports are being submitted to the Ground water board and Ground water authority.
16	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of ground water, if any, for the project.	UCWL has obtained NOC for ground water withdrawal vide letter no. 21-4(211)/WR/CGWA/2007-626 dated 22.04.2016.
17	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Suitable rainwater harvesting measures i.e. Loose stone check dams, dugout ponds, recharge trenches, earthen check dams, artificial rain water harvesting structures etc. have been developed.
18	Appropriate mitigative measures shall be taken to prevent pollution of the Berach River, in consultation with the State Pollution Control Board.	UCWL ensures to take appropriate mitigative measures to prevent pollution of the Berach River in consultation with the State Pollution Control Board.
19	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles use in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	UCWL ensures to control and monitor vehicular emissions regularly. Necessary guidelines have been given for all HEMS & other vehicles to be used in the mining area.
20	No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	UCWL ensures to carry out blasting only during the day time with control blasting practice.
21	Drills shall either be operated with dust extractors or equipped with water injection system.	UCWL ensures to operate drills with water injection system.
22	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust	High efficiency dust extraction systems are being installed in mineral handling area and material transfer points.

	control arrangements. These should be properly maintained and operated.	
23	Consent to operate shall be obtained from the State Pollution Control Board prior to start of enhanced production from the mine.	UCWL has obtained Consent to Operate from the State Pollution Control Board.
24	The project authorities should undertake sample survey to generate data on pre-project community health within a radius of 1 km from proposed mine.	Noted
25	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Schedule of health examination of workers has been made & medical examination is being carried out accordingly.
26	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and the wastewater generated during the mining operation.	Residence of mining staff has been kept in colony of cement plant, where STP has already been installed for treatment of domestic wastewater. ETP has been installed at mines workshop.
27	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the Project.	Complied
28	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 the Ministry of Environment and Forests and its Regional Office, Lucknow.	UCWL ensures to carry out digital processing using remote sensing technique regularly once in three years.
29	A final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	UCWL will submit mine closure plan according to condition no. 29.

General conditions:

1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	UCWL ensure that change in mining technology and scope of working will not be done without prior approval of the MoEF.
2	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	Noted
3	Conservation measures for protection of flora and fauna in the core & buffer zone shall be drawn up in consultation with the local forest and wildlife department.	UCWL ensures to draw conservation measures for protection of flora and fauna in the core & buffer zone in consultation with the local forest and wildlife department.
4	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, SO ₂ & NO _x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and	UCWL has established four nos. ambient air quality monitoring stations in the core zone as well as the buffer zone for RSPM, SPM, SO ₂ & NO _x monitoring.

	ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.											
5	Data on ambient air quality (RSPM, SPM, SO ₂ & NO _x) should be regularly submitted to the Ministry including its Regional Office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.	Noted & complied. The monitoring data are as tabulated below:										
Ambient Air Quality Data (Apr. 17 to Sept 17)												
Ambient Air Quality Stations	PM - 10 ($\mu\text{g}/\text{m}^3$)			PM - 2.5 ($\mu\text{g}/\text{m}^3$)			SO _x ($\mu\text{g}/\text{m}^3$)			NO _x ($\mu\text{g}/\text{m}^3$)		
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
Near Ropeway Unloading Point	60.32	39.65	47.70	34.29	19.49	24.84	6.25	4.36	5.39	12.15	8.54	9.60
Near Mines Office	53.42	32.27	41.77	30.54	17.52	21.90	6.54	4.77	5.42	11.65	7.46	9.38
Near Pandumata Temple	55.29	36.36	43.94	24.16	12.77	19.95	7.37	4.62	5.59	10.22	6.98	8.29
Near Daroli Tank	52.74	38.34	48.21	29.03	15.62	23.44	6.24	4.67	5.36	13.27	7.46	9.74
6	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	UCWL ensures to control regularly fugitive dust emissions from all sources. Water spraying arrangements have been provided on haul roads, loading & unloading and at transfer points.										
7	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.	Measures have been taken for control of noise levels below prescribed limit in the work environment. UCWL ensures use of ear plugs/muffs to workers engaged in operations of HEMM etc.										
8	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	ETP has been installed.										
9	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	PPE's have been already provided. UCWL ensures use of protective respiratory devices for personnel working in dusty areas & provide adequate training and information on safety & health aspects.										
10	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	UCWL has a separate Environment Management Cell to take care of monitoring and other issues related to environment.										
11	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise	UCWL has kept the funds earmarked for environmental protection measures & ensures not to divert for other purpose.										

	expenditure should be reported to the Ministry and its Regional Office located at Lucknow.	
12	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Noted, all the project work is within the existing premises of UCWL, no additional land is proposed.
13	The Regional Office of this Ministry located Lucknow 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.	Noted
14	The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Lucknow, Central Pollution Control Board.	Six monthly report is regularly being submitted to concerned Regulatory Authorities.
15	The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office Lucknow, Central Pollution Control Board	Complied.
16	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.
17	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.	Copy of Environmental Clearance had been submitted to Rajasthan State Pollution Board.
18	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 and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	UCWL had published environmental clearance advertises in two local newspapers Dainik Bhaskar & Rajasthan Patrika on dated January 20 th 2009.