

State Level Environment Impact Assessment Authority, Rajasthan

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Phone: 0141-2705633, 2711329 Ext. 361


No. F1 (4)/SEIAA/SEAC-Raj/Sectt/Project/Cat. I(a)B2(17728)/2019-20 Jaipur, Dated:

15 APR 2021

Transfer of Environmental Clearance

Environmental Clearance to Sh. Chandan Singh was granted for mining of Limestone (minor mineral) for M.L. No.- 43/88, Area- 100 ha., Production capacity- 75,000 TPA, N/v- Hariyadhana, Tehsil- Bilara, District-Jodhpur (Raj.), vide MoEF&CC letter dated 5.10.2011. M/s Roop Minerals (PP) had submitted application dated 28.01.2020 for transfer of EC from Sh. Chandan Singh to M/s Roop Minerals. The SEAC has appraised the proposal on the basis of the documents submitted by PP. The SEAC has recommended to transfer the above EC to M/s Roop Minerals in its meeting held on 8, 9 & 10-03-2021.

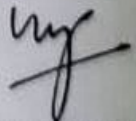
The matter of transfer of environment clearance was considered in the 4.57th meeting of SEIAA and the Authority has accepted the recommendation of SEAC. Therefore Environment Clearance issued by MoEF & CC vide letter date 5.10.2011 to M/s Chandan Singh, Village-Borunda/Hariyadhana, Tehsil-Bilara, District-Jodhpur is hereby transferred to M/s Roop Minerals, Village-Borunda/Hariyadhana, Tehsil-Bilara, District-Jodhpur (Rajasthan), and amendment in EC with respect to lease area of 100 ha. to 23.8337 ha., pertaining to Hariyadhana Limestone (Burning) Mining Project, M.L. No.- 43/88, Production capacity- 75,000 TPA (ROM) at Khasra no.- 1068/7, N/v- Hariyadhana, Tehsil- Bilara, District- Jodhpur (Raj.) (**Proposal No. 124877**), as per provision of para 11 of EIA Notification, 2006 subject to compliance of the conditions imposed by SEIAA vide letter dated 15.05.2006, with the specific and general conditions annexed at Annexure 'A', is also granted.


(P.K. Upadhyay)
Member Secretary,
SEIAA, Rajasthan.

No. F1 (4)/SEIAA/SEAC-Raj/Sectt/Project/ Cat. I(a)B2(17728)/2019-20 Dated:

Copy to following for information and necessary action:

1. Secretary, Ministry of Environment, Forest & Climate Change, Govt. of India, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi-110003.
2. Principal Secretary, Environment Department, Rajasthan, Jaipur.
3. Sh. R.K. Meena, IAS (Retd.), B-75, Shankar Vihar, 50 Feet Gaitore Road, Sawai Gaitor, Jaipur
4. Dr. Anil Kumar Goel IFS (Retd.), Forest Colony, Sector 4, Jawahar Nagar, Jaipur.
5. Member Secretary, Rajasthan State Pollution Control Board, Jaipur for information & necessary action and to display this sanction on the website of the Rajasthan Pollution Control Board, Jaipur.
6. Member Secretary, SEAC Rajasthan.
7. The CCF, Regional Office, Ministry of Environment & Forests, RO (CZ), Kendriya Bhawan, ^{5th} Floor, Sector 'H', Aliganj, Lucknow-226 020.
8. Director, Department of Mine & Geology, Court Chorha, Udaipur.
9. Environment Management Plan- Division, Monitoring Cell, Environment, Forest & Climate Change, Govt. of India, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi-110003.
- ✓ 10. M/s Roop Minerals, Village-Borunda/Hariyadhana, Tehsil-Bilara, District-Jodhpur (Rajasthan).
11. Sh. Jagbir Singh Manral, ACP, Department of Environment, Government of Rajasthan, Jaipur with the direction to upload the copy of this Environment Clearance on the website.


M.S. SEIAA (Rajasthan)

No. J-11015/346/2008-IA.II(M)
Government of India
Ministry of Environment and Forests
IA Division

Paryavaran Bhawan
CGO Complex, Lodi Road,
New Delhi-110 003

Dated the 5th October, 2011



To

M/s Chandan Singh
Village Borunda/Hariyadhana,
Tehsil Bilara,
District Jodhpur,
Rajasthan
E-mail: suryakunj@gmail.com

Subject: Limestone (Minor Mineral) (ML no. 43/88) Mining Project of M/s Chandan Singh, located in Village(s) Borunda/Hariyadhana, Tehsil Bilara, District Jodhpur, Rajasthan - environmental clearance regarding.

Sir,

This has reference to your letter No. SCS/MoEF-New Delhi/2010/90 dated 19.05.2010 and subsequent letters dated 02.07.2010, 05.07.2010, 15.07.2010, 19.07.2010, 20.07.2010, 21.10.2010 and 25.03.2011 on the subject mentioned above. The project was earlier prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 23.02.2009 for undertaking detailed EIA study for the purpose of obtaining environmental clearance. The proposal is for renewal of mine lease, which fell due in March, 2009 and enhancement of production of limestone (minor mineral) to 75,000 tonnes per annum (TPA). The mine is reported to be closed since February, 2009.

2. The total mine lease area of the project is 100ha, out of which 76.10ha is an agricultural land and 23.84ha is wasteland. No forestland is involved. Area proposed for excavation is 20.21ha, an area of 0.04ha is kept for infrastructure, 1ha for roads, 2.59ha for peripheral plantation and 76.10ha is others (Area kept intact). No modification/diversion in the existing natural drainage pattern at any stage has been envisaged.

3. No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. are reported to be located in the core and buffer zone of the mine and that the area does not report to form corridor for Schedule-I fauna.

4. The mine working will be opencast by semi-mechanized method involving drilling and blasting. The targetted production capacity of the mine is 75,000 TPA of limestone (minor mineral) and the life of mine is 50 years. It has

..2/-

of mineral will be transported between 26°27'36" to 26°28'48" N Latitude and 73°46'32" to 73°47'50" E longitude in Survey of India topo sheets No. 45 F/15, at an elevation above mean sea level ranging from 288m to 310m. The ultimate working depth of mine will be 14m bgl. The water table is reported to vary between 80m-100m bgl. The mine working will not intersect the groundwater table. The water requirement for the project is estimated as 15kld, which will be obtained from ground water and accumulated rainwater. It has been reported that there is no population in the core zone, therefore, displacement of population and R&R has not been envisaged. It is estimated that 1.9 million m³ of waste will be generated during mine life, which will initially be dumped in the Southern side of the lease area for next five years and will be removed after widening of pit bottom. Backfilling has already been started. There will be no external OS dump post mining. At the end of the mine life, an area of 10.86 ha will be backfilled and an area of 9.35 ha will be converted into water body. Plantation will be raised in an area of 13.45 ha at the end of the mine life.

5. The public hearing of the project was held on 24.08.2009 for production of 75,000TPA of limestone involving lease area 100ha. The proponent clarified that their lease (No.43/88) is 95 km North-East of Jodhpur and they are not clubbed with Jodhpur and also do not fall in the Critically Polluted Area/ Cluster Index. The Mining Engineer, Jodhpur, Department of Mines and Geology, Government of Rajasthan approved eco-friendly mine plan of the project on 15.09.2009 for lease area of 100ha for a period of five years. The Mining Engineer, Jodhpur, Department of Mines and Geology, Government of Rajasthan letter No. KHA AA/JODH/CC II/APRA/M.L. 43/88/574 dated 21.07.2010 stated that the Jodhpur District does not fall in the Aravalli Hills, therefore, the instant mine lease does not fall in the Aravalli Hills. The capital cost of the project is Rs.1.51 crores and the capital cost for the environmental protection measures is proposed as Rs.1,67,500/-. The annual recurring cost towards the environmental protection measures is proposed as Rs.1,75,00/- . It has been stated that no court case is pending against the project or related activities.

6. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and hereby accords environmental clearance under the provisions thereof to the above mentioned Limestone (Minor Mineral) Mining Project (ML no. 43/88) of M/s Chandan Singh for an annual production capacity of 75,000 tonnes of limestone (minor mineral) by the broadcast semi-mechanized method involving total mining lease area of 100ha, subject to implementation of the following conditions and environmental safeguards.

A. Specific conditions

The project proponent shall obtain Consent to Establish and Consent to Operate from the Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein

- (ii) Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India in Contempt Petition (C) No. 412/2004 in JA No. 833 in Writ Petition (C) No. 202 of 1995, as may be applicable to this project.
- (iii) The environmental clearance is subject to approval of the State Land Use Department, Government of Rajasthan for diversion of agriculture land for non-agricultural use.
- (iv) The project proponent shall prepare eco-friendly mine plan for operating the mine beyond 5th year and get it approved from the competent authority. A copy of the same shall be submitted to Ministry of Environment and Forests and its Regional Office, Lucknow.
- (v) The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.
- (vi) The project proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operations.
- (vii) The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.
- (viii) The over burden (OB) generated during the mining operation shall be temporarily stored in the earmarked areas for backfilling. The waste dump shall be re-handled and there shall be no waste dump left out at the end of the mine life. Out of the total excavated area of 20.21ha, an area of 10.86 ha will be backfilled and reclaimed by plantation. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office, Lucknow on six monthly basis.
- (ix) The void left unfilled in an area of 9.35ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out all along the excavated area.



- (x) Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, temporary soil, OB and mineral dumps to arrest flow of silt and sediment directly into the agricultural fields and water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after the monsoon and maintained properly.

Garland drains, settling tanks and check dams of appropriate gradient and length shall be constructed both around the mine pit and the temporary dumps to prevent run off of water and flow of sediments directly into the agricultural fields and water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.

- (xi) Dimension of the retaining wall at the toe of the temporary OB dump(s) and the OB benches within the mine to check run-off and siltation should be based on the rain fall data.
- (xii) Plantation shall be raised in an area of 13.45 ha including a 7.5m wide green belt in the safety zone around the mining lease, along the roads, etc. by planting the native species in consultation with the local DFO/Agriculture Department. In addition, plantation shall also be raised in the backfilled and reclaimed area and around water body. The density of the trees should be around 1000 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.
- (xiii) Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as mining area, around crushing and screening plant, loading and unloading point and all storage and transportation points of mineral. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- (xiv) The RSPM levels shall be regularly monitored in all the critical areas i.e. mining area, storage area, along the haul road, loading and unloading points and the records maintained. The data so collected should also be submitted to the Ministry of Environment & Forests.
- (xv) 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.

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- (xvi) 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 installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January), once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data collected may be sent regularly to the Ministry of Environment, 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.
- (xvii) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and groundwater, if any) required for the project.
- (xviii) Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.
- (xix) Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- (xx) The dust generated during mining operation shall be scavenged.
- (xxi) Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- (xxii) Drills shall either be operated with dust extractors or equipped with water injection system.
- (xxiii) Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
- (xxiv) Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.



6/-

(xxv) Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of workers should be drawn and followed accordingly.

(xxvi) As part of the occupational health safeguard measures, besides other facilities, 'eyewash fountain' shall be provided at appropriate work places.

(xxvii) 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.

(xxviii) The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored (TDS, DO, PH and Total Suspended Solids (TSS)). The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-2001271/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.mef.gov.in shall also be referred in this regard for its compliance.

(ix) 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.

B. General conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral limestone (minor mineral) and waste should be made.
- (iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x 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

13/7/-



- (iv) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) & NO_x should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.
- (v) 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.
- (vi) 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.
- (vii) Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.
- (viii) 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.

- (ix) 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.
- (x) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Lucknow.
- (xi) 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.
- (xii) The Regional Office of this Ministry located at 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.

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(xiii) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.

(xiv) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's Office for 15 days.

The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail.

(xv) The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and 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.

7. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

109/-

8. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

9. 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, the Public Liability Insurance Act, 1991 along with their amendments made thereunder and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Rajasthan and any other Court of Law relating to the subject matter.

(SATISH.C.GARROTI)
Scientist

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) The Department of Mines & Geology, Government of Rajasthan, Secretariat, Jaipur.
- (iii) The Secretary, Department of Environment, Government of Rajasthan, Secretariat, Jaipur.
- (iv) The Chief Conservator of Forests, Control & Monitoring Division, Ministry of Environment and Forests, B-1/72, Sector-3, Mayapuri, New Delhi-110020.
- (v) The Chairman, Central Pollution Control Board, Parkesh Bhawan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-110003.
- (vi) The Member Secretary, Central Ground Water Authority, A-2, W-1, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- (vii) The Chairman, Rajasthan State Pollution Control Board, 4, Kishoreganj area, Indlana, Doongri, Jaipur.
- (viii) The Controller General, Indian Bureau of Mines, Indira Bhawan Lines, Nagpur-440 001.
- (ix) The District Collector, Jodhpur District, Rajasthan.
- (x) E1 Division, Ministry of Environment and Forests, Paryavaran Bhawan, C. G. O. Complex, Lodi Road, New Delhi-110 003.
- (xi) Monitoring File.
- (xii) Guard File.
- (xiii) Record File.