

---

# ***DOCUMENTS***

---



0191-2474553/0194-2490602

Government of India

Ministry of Environment, Forest &amp; Climate Change

**J&K ENVIRONMENT IMPACT ASSESSMENT AUTHORITY****(at) DEPARTMENT OF ECOLOGY, ENVIRONMENT AND REMOTE SENSING**

S.D.A. Colony, Bemina, Srinagar-190018 (May-Oct)/ Paryavaran Bhawan, Transport Nagar, Gladni, Jammu-180006 (Nov-Apr)

Email: jkseiaa@gmail.com, website:www.parivesh.nic.in



Shri S.N.H. Kazmi,  
Prop. M/S Baba Farid- ud-din Bagdadi Minerals,  
Barias Kothiyar Gypsum Mining project,  
Village Barias, Tehsil & District Doda.

Subject:- Grant of Environment clearance in favour of Shri S.N.H. Kazmi, Prop. M/S Baba Farid-ud-din Bagdadi Minerals for Barias Kothiyar Gypsum Mining project at Village Barias, Tehsil & District Doda over an area of 15.18ha. under proposal No.SIA/JK/MIN/59286/2019

Reference:- i) Minutes of the Meeting of JKEAC held on 28<sup>th</sup>-30<sup>th</sup> January, 2021 issued vide No.EAC/JK/20/4711-24 dated 12-02-2021.  
ii) Minutes of the Meeting of JKEIAA held on 18<sup>th</sup> February, 2021 issued vide No. JKEIAA/2016/02/IV/204-08 dated:-18-02-2021.

Kindly refer your application received in this office on 18th January, 2021 for grant of Environment clearance for Barias Kothiyar Gypsum Mining project under the name & style of M/S Baba Farid- ud-din Bagdadi Minerals at Village Barias, Tehsil & District Doda over an area of 15.18ha. under proposal No.SIA/JK/MIN/59286/2019.

The JK Environment Impact Assessment Authority accorded approval to grant Environment Clearance in favour of Shri S.N.H. Kazmi, Prop. M/S Baba Farid-ud-din Bagdadi Minerals for Barias Kothiyar Gypsum Mining project at Village Barias, Tehsil & District Doda over an area of 15.18ha. under Environment Impact Assessment Notification, 2006 as amended from time to time.

Whereas, it has been noted that that the scheme of mining relates to years from 2015-16 to 2019-20 while as Environment clearance issued is from 2021 for a period of 5 years or upto validity of mining lease date whichever is earlier. Hence the Environment clearance is **subject to the condition that project proponent shall submit a revised scheme of mining with necessary corrections as prescribed duly approved by the competent Authority i.e., Geology Mining Department within period of three months from the date of issuance of Environment clearance.**

The geo-graphical co-ordinates of the project are as under:-

Pillars	Latitude	Longitude
P	33° 06' 35.62"N	75° 26' 17.52"E
Q	33° 06' 35.62"N	75° 26' 18.59"E
R	33° 06' 39.65"N	75° 26' 29.86"E
S	33° 06' 38.84"N	75° 26' 34.63"E
T	33° 06' 35.36"N	75° 26' 40.72"E
U	33° 06' 28.55"N	75° 26' 36.99"E
V	33° 06' 31.65"N	75° 26' 35.65"E
W	33° 06' 33.61"N	75° 26' 15.35"E
X	33° 06' 30.45"N	75° 26' 15.20"E
Y	33° 06' 39.22"N	75° 26' 15.57"E

The Environment clearance is also subject to the fulfillment of enclosed general & specific conditions:-



**GENERAL CONDITIONS:**

**Statutory compliance.**

- a) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- b) The Project proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- c) The State/UT Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- d) 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.
- e) 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 concerned State Pollution Control Board/Committee.
- f) The Project Proponent (PP) shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made thereunder. Project Proponent (PP) shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- g) 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, if applicable to the project.
- h) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- i) 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.
- j) 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.
- k) The JK Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- l) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ([www.environmentclearance.nic.in](http://www.environmentclearance.nic.in)). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
- m) The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than



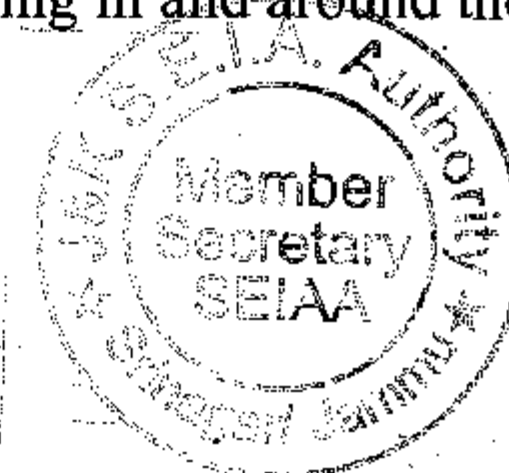
mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

#### **Air quality monitoring & preservation**

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

#### **Water quality monitoring & preservation**

- 1 In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from Central Ground Water Authority(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.
- 2 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 an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug 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 Groundwater Department / State Pollution Control Board.
- 3 Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- 4 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

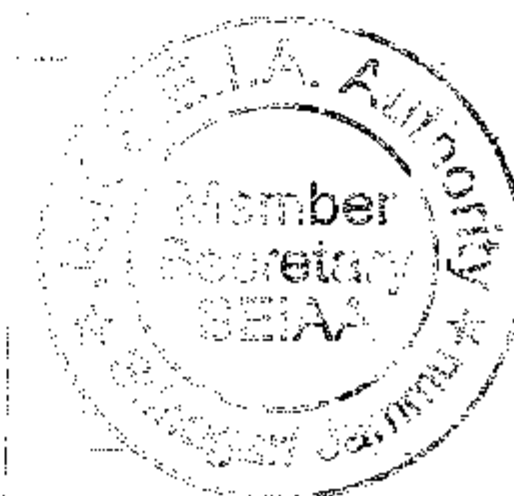


maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for 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-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

- 5 Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.
- 6 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 Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- 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 State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- 8 The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

#### **Noise & vibration**

- 1 The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- 2 The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
- 3 The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

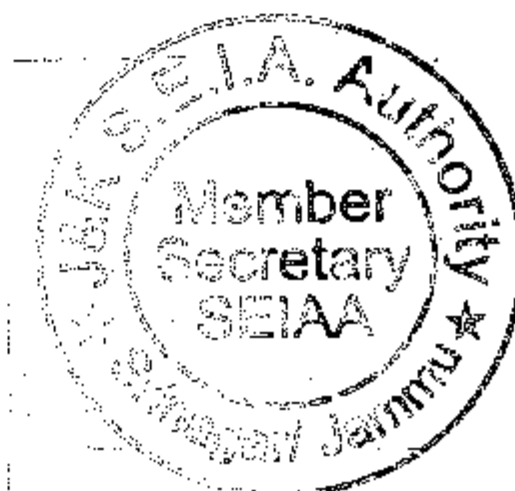


## **Mining plan**

- 1 The Project Proponent shall adhere to the working parameters of approved 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 & waste production, lease area and scope of working (viz. method of mining, overburden & dump management , O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, 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.
- 2 The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & 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 Ministry of Environment, Forest and Climate Change for record and verification.
- 3 The land-use of the 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-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.

## **Land reclamation.**

- 1 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.
- 2 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 adhered to maintain the stability of waste dumps.
- 3 The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
- 4 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.
- 5 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, Chandigarh.



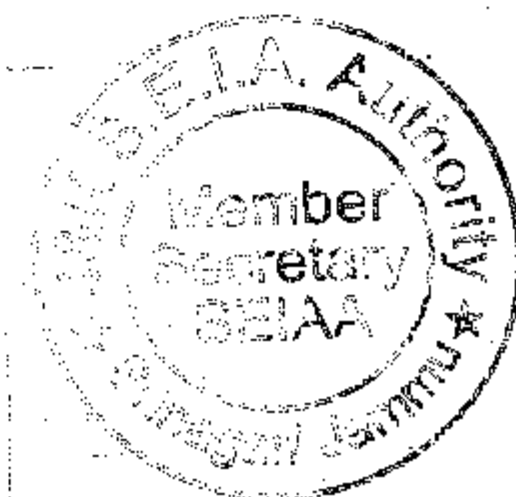
- 6 Catch water drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should 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.
- 7 Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years' data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
- 8 The top soil, if any, shall temporarily be stored at 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.

### **Transportation**

- 1 No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
- 2 The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control 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.

### **Green belt**

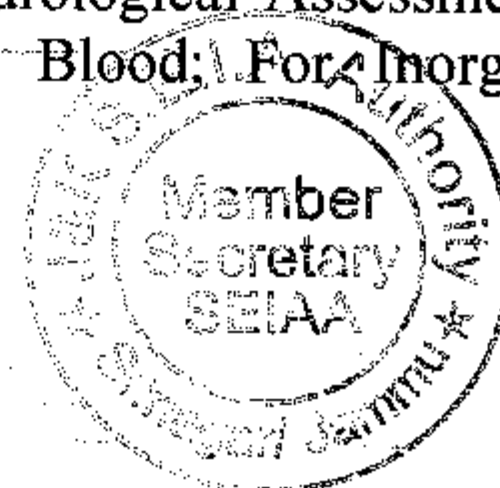
- 1 The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in final approved mine plan.



- 2 The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
- 3 The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the UT 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.
- 4 The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I 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 Plan shall be approved by Chief Wildlife Warden of the J&K Govt. and implemented in consultation with the J&K 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.

#### **Public hearing & human health issues**

- 1 The Project Proponent shall appoint an Occupational Health Specialist for Regular as well 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 MoEFCC Regional Office and DGMS on half-yearly basis.
- 2 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.
- 3 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, Anaemia, Diarrhoea 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.
- 4 The Proponent shall carry out Occupational health surveillance 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-

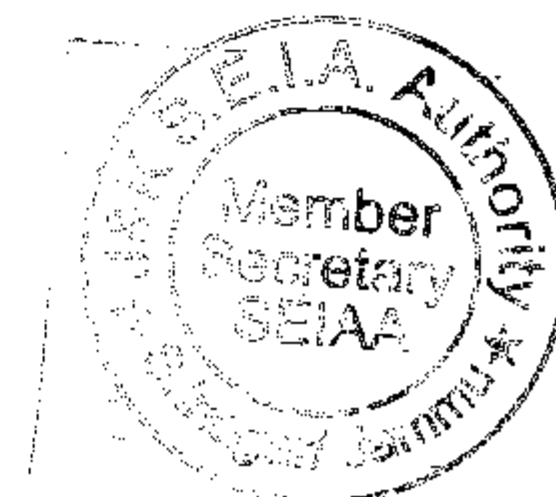


Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).

- 5 The Proponent shall maintained a record of performance indicators for workers which includes (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 ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an 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, MoEFCC annually along with details of the relief and compensation paid to workers having above indications.
- 6 Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
- 7 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.
- 8 The project proponent shall implement Standard Operating Procedures(SOPs) and guidelines issued by the Ministry of Health & Family Welfare and the UT Disaster Management Authority of J&K with respect to containment of COVID-19 outbreak in the mining site.

#### **Corporate environment responsibility (CER)**

- 1 Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEFCC and its concerned Regional Office.
- 2 The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.



## Miscellaneous

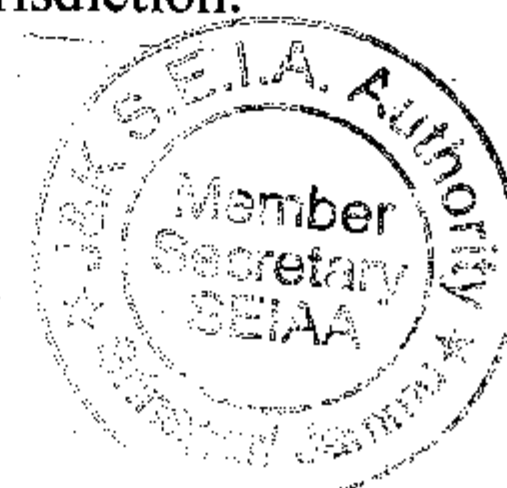
- 1 A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to Regional Office, MoEFCC, Chandigarh.
- 2 The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data / information / monitoring reports.
- 3 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.
- 4 The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.
- 5 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 MoEFCC.

### Other conditions:

1. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/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 Institute by the proponent.
2. The proponent shall upload the status of compliance of the stipulated EC 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 MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the institute in the public domain.
3. The environmental statement for each financial year ending 31st March in Form-Vas 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
4. The Environmental Clearance shall be valid for a period of five years from the date of its issuance or as per guidelines from the MoEF&CC issued in this regard whichever is less.
5. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

### SPECIFIC CONDITIONS: -

1. The Environment Clearance is subject to compliance to all guidelines/Office Memorandums of MoEF&CC, GoI, Orders of Hon'ble Courts of competent jurisdiction, Orders from Hon'ble NGT issued from time to time with respect to cases involving violation of Environment Protection Act, 1986 or any other Law on the subject read with Rules made thereof.
2. This Environmental Clearance is without prejudice to the outcome of any petition lying disposal before any Hon'ble Court of competent jurisdiction.



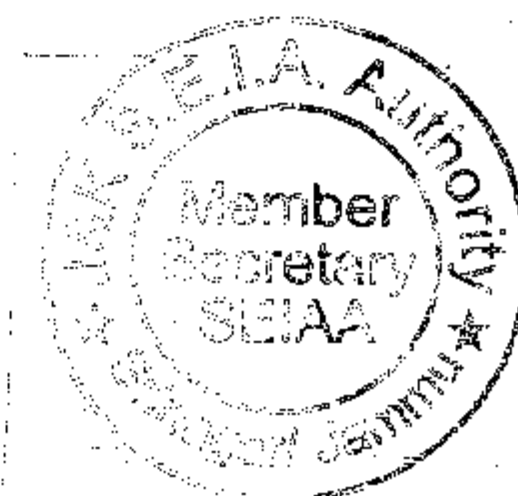
3. The Environmental Clearance is subject to NOC from the local villagers whose land is involved in the project besides, implementation of all decisions recorded mutually in the PH report during the public hearing.
4. The project proponent shall revise the Environment Management Plan with total budget of **50.00 lacs or 5% of the revenue earned during the violation period (from 2005 when the mining activity was started till 2016 when it was stopped by the Geology & Mining Dept. for want of EC as reported by PP) through mining of minerals from the site in violation of the EP Act by operating without a valid EC, whichever is more, in accordance with Notification No. S.O 1030(E) dated 8th of March, 2018.** The earmarked funds shall be spent over a period of 3 years on construction of protective retention walls, check dams, restoration of green cover and other eco-rehabilitation works under remediation plan, Natural and Community Resource Augmentation Plan which would also include; life and health insurance of miners including labourers involved in the mining activity directly or indirectly, upgradation of health facilities, shelters, toilets and drinking water facility for miners. After 3rd year, the EMP shall keep a recurring provision of **Rs 15.00 lacs per annum** under monitoring of ambient air quality, dust suppression, checking of soil erosion, green belt development, life and health insurance of miners including labourers involved in the mining activity directly or indirectly, maintenance of shelters, toilets, health facility and drinking water facility for miners and implementation of COVID-19 SOPs in the mining area. The revised version of the EIA/EMP giving year-wise allocation shall be submitted before formal grant of Environmental Clearance by JKUTEIAA. The consultant shall also rectify other mistakes in the documents pointed out during the deliberations.
5. Under Corporate Social Responsibility(CSR), The Project proponent shall spend funds within 2 km radial distance, on activities like regular health check-up of local villagers once a week with free medicines. Safe drinking water facility by way of renovation or digging of new tube wells and installation of water filters shall be undertaken. Skill development trainings shall be organized for unemployed local youth. Further, construction of toilets in schools, solar street lighting, free distribution of books, note books, N95 masks, hand sanitizers and school bags among students within 2 km radius from the mine area shall be undertaken.
6. Under EMP, with 2 kms radial distance from mine area; air, water, soil, noise pollution monitoring on half yearly basis, maintenance of haulage /extraction routes, water sprinkling, PPE to mine workers, bearing of school/college fee and allied costs on education of children of mine workers, bearing of all costs on ailments/healthcare of mine workers, creation of green belt by way of raising and maintenance of plantation on land identified by the local functionary of the Soil Conservation Department concerned in consultation with village panchayat during the period of mining, shall be undertaken.
7. The funds earmarked under EMP/CER and CSR shall be kept in separate accounts and shall not be diverted for other purposes. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office at Chandigarh.
8. In accordance with Notification No. S.O 1030(E) dated 8th of March, 2018, the project proponent shall submit a **bank guarantee equal to Rs 50.00 lacs or 5% of the revenue earned (from the date of operation of the mine without EC to the date when the PP applied for grant of TOR) whichever is more,** with the J&K Pollution Control Board before grant of Environmental Clearance and the same shall be released only after successful implementation of the Remediation Plan, Natural and Community Resource Augmentation Plan and on recommendation of the Regional Office of the Ministry of Environment, Forest & Climate Change (MoEF&CC), and JKEAC and after approval of the JK Environment Impact Assessment Authority.
9. The project proponent shall involve local panchayat in identification of works under CSR/CER/EMP and the funds shall be utilized in consultation with field functionaries of Government Departments.



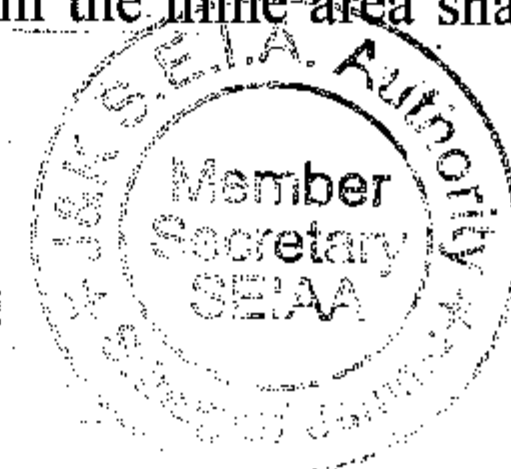
10. The project proponent should concurrently back-fill the mined-out area, level it completely and restore the land for its future use as per technical guidelines prescribed in Mine closure plan. Compliance status should be submitted to the Ministry of Environment and Forests and its Regional Office Chandigarh on six monthly basis.
11. Check dams and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working, soil and mineral dumps. The water so collected should be utilized for watering mine area, roads, green belt development etc. The drains should be regularly desilted and maintained properly.
12. Garland drain of appropriate size, gradient and length shall be constructed for mine pit and mineral dumps and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall 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.
13. The proponent shall not carry out drilling and blasting operations.
14. Automatic Air quality monitoring stations should be installed so that the PCB gets regular updates on air quality in the mine area and its surrounds.
15. Regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
16. Vehicular emissions should 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 vehicles should be covered with a tarpaulin and shall not be overloaded.
17. A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests in advance of final mine closure as per approved mining plan.
18. All measures should be taken for surveillance of the mined out mineral as per guidelines of the Ministry of Mines and the MoEF&CC if any in this regard.
19. Security arrangements, use of surveillance system, installation of weighbridge, GPS tracking system etc. needs to be put in place for prevention of illegal mining from the site.
20. All the provisions of Minor Mineral Rules sanctioned under SRO105 with all amendments with respect to pertinent provisions of the legal framework relating to progressive mine closure shall be complied by the Project Proponent.
21. This Environmental Clearance is subject to final outcome of any litigation pending before Hon'ble Supreme Court of India, Hon'ble High Court of Jammu & Kashmir, Hon'ble NGT, or any other Court of Law, if any, as may be applicable to this project.
22. This Environmental Clearance is without prejudice to the standing instructions /orders from the competent authorities in the MoEF&CC, GoI and the UT of J&K w.r.t mining activity.
23. The Project Proponent shall take all precautionary measures during mining operations for conservation and protection of endangered fauna and flora in the area.
24. Masks and PPE shall be provided to the workers in view of COVID-19.
25. Social distancing norms and other standard operating procedures relating to COVID-19 shall be followed during mining activity.
26. The plan worked out and expenditure made under Occupational Health should be undertaken in consultation with the Local Health Institution/PHC/Sub-Centre for utilization for the health and welfare of the local workers involved in mining activity and villagers living in the close vicinity. Regular Medical checkups and free medicines shall be provided under the fund.
27. The Project Proponent must ensure that the biological clock of the villagers in the vicinity of the project is not disturbed by any unauthorized night operations and all measures must be taken for keeping the noise levels within prescribed levels.



28. Provision shall be kept for housing of the labour force, toilets, facilities for cooking, safe water, health care, crèche etc. for the labour force.
29. The top soil in case of surface land mining shall be temporarily stored at the designated / appropriate site and concurrently used for land reclamation.
30. The mining operations shall be undertaken in a systematic manner so that it does not damage the aesthetic view of the area.
31. The compliance report shall be submitted to the Regional Office of the MoEF&CC at Chandigarh with a copy to the Regulatory Authority.
32. The mining activity should in no case go beyond the area as mentioned in the lease deed and a buffer area is maintained such that the slopes of adjoining area does not get disturbed.
33. All the provisions made and restrictions imposed as covered in the Minor Mineral Rules, shall be complied with, particularly regarding Environment Management Practices and its fund management.
34. The mining shall be done in bench form as per mining plan approved by competent authority.
35. Mining should be initiated only after installation of signboards with demarcation pillars indicating the geo-coordinates of the plot as mentioned in the letter of intent , measurements (length /breadth) and should be laid in presence of the authorized official of the Geology & Mining Department. The demarcation pillars site should mention the specific EC conditions and contact details of concerned authorities responsible for monitoring of compliance of EC conditions/district administration/Police at four corners of the mining site prominently on a large size durable display board for enabling the public to inform the authorities in case of violation of the EC conditions. The display board with details shall be maintained in perfect order throughout the period of lease/mining.
36. There should be no change in the method of excavation and quantity of minerals to be extracted.
37. The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers concerned for inspection.
38. The access to mining site should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for in accordance with standing guidelines issued by the Govt.
39. The Geology & Mining Department should use technology like Bar Coding, Information and Communications Technology (ICT), Web based and ICT enabled services, mobile SMS App etc. to account for weight of mineral being taken out of the plot and the number of trucks moving out with the mineral.
40. The PP should ensure no agriculture land in the area is used for any storage of muck or gets damaged due to any other transportation activity. Wherever, damages to agricultural land, assets or human or bovine life by way of plying of trollies and tippers etc. involved in transportation of minor mineral is reported, the Project Proponent shall pay adequate compensation with penalty to the effected persons as to be fixed up by the competent authority.
41. Waste generated will be collected on regular basis and will be disposed as per the Municipal Solid Waste Management (Management & Handling) Rule 2000 and its subsequent amendments.
42. Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.
43. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded.
44. Overloading of trucks and trolleys will be avoided.



45. All the instructions from authorities representing various government departments having stakes shall be complied with during the mining operations.
46. Haul road will be kept wide, compact and water spraying will be done. It shall be properly maintain by the PP and restored to original position after mining. Axle load on the roads should not exceed the prescribed load as per IRC.
47. Restricted working hours. Mining operation has to be carried out between 6 am to 7 pm. during day light. Mining operations shall not be allowed at night.
48. No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope. Mining activity shall not be avoided in rainy season.
49. Vehicles used for transportation of material are to be permitted only with fitness and PUC Certificates.
50. Adequate facility for drinking water and toilets should be provided for the workers.
51. Deep drilled handpump with sufficient funding provision should be earmarked for providing drinking facility to the labour force.
52. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted.
53. The PP shall be responsible for enforcement of COVID-19 standard operating procedures and guidelines with respect to safety of workers involved in the mining activity.
54. Health and safety of workers should be taken care of. They should also be provided training in safety and health care aspects.
55. Junction at takeoff point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.
56. No stacking shall be allowed on road side along National Highway or any public road.
57. Concealing of any information/data of submission of wrong/fabricated information by the Project Proponent and failure to comply with any of the above conditions may lead to withdrawal of the EC and attract action under the provisions of EP Act, 1986.
58. Mining shall be done manually minimally supported by semi-mechanized methods. Heavy machinery like L&T hydraulic excavators etc. should not be allowed. Emphasis should be given to employment of locally available labour force to address the socio-economic concerns of the locals.
59. The progressive mine closure shall be as per Rules in vogue. All actions relating to progressive mine closure shall be taken well in advance during the final year of mining so that the site is rehabilitated ecologically.
60. The reasonable concerns expressed by the local population during public hearing or otherwise shall be addressed by the Project Proponent. No blasting operations shall be allowed.
61. The PP shall earmark funds strictly as per the revised Environmental Management Plan to be spent on environmental monitoring, dust sprinkling, green belt development, soil conservation, rehabilitation of mined out area and landscaping/regressing and haulage route maintenance. The detailed updated plan shall be submitted to JKEIAA as per above deliberations before grant of formal EC. Further, the CSR funds shall be earmarked and utilized as per CSR Rules.
62. The EC is subject to condition that the project proponent obtains NOC/authorization from the owners of the land if private land is also involved in the mining area.
63. Under CSR, within 2 km radial distance, activities like regular health check-up of local villagers once a week shall be undertaken with free medicines. Safe drinking water facility by way of renovation of existing tanks/wells, digging of new tube wells and installation of water filters shall be undertaken. Skill development trainings shall be organized for unemployed local youth. Further, construction of toilets in schools, solar street lighting, free distribution of books, note books, N95 masks, hand sanitizers and school bags among students within 2 km radius from the mine area shall be undertaken.



Under EMP, with 2 kms radial distance from mine area; air, water, soil, noise pollution monitoring on half yearly basis and maintenance of haulage /extraction routes, water sprinkling, PPE to mine workers, bearing of school/college fee and allied costs on education of children of mine workers, bearing of all costs on ailments/healthcare of mine workers, creation of green belt by way of raising and maintenance trees on land identified by DFO Social Forestry concerned in consultation with village panchayat during the period of mining, shall be undertaken.

64. The JKEIAA reserves the right to impose any other condition in the EC at any time during the period of mining lease. The JKEIAA reserves the right to revoke the EC in case any of the environmental clearance conditions are violated during the mining activity. Mere grant of Environmental Clearance does not entitle the Project Proponent for grant of mining lease unless he obtains all other clearances as required under other provisions of law.
65. The project proponent shall undertake an environmental audit at least once a year by a reputed third-party expert entity and report of such audit shall be placed in public domain as per rules in vogue.
66. After ceasing the mining operations, the project proponent shall undertake re-grassing of the mining lease area and any other area which may have been disturbed due to mining activities and restore the area to a condition fit for growth of flora, fauna and fodder as per rules in vogue.
67. The EC shall be valid for a period of five years or till the validity period of lease, whichever is less, from the date of commencement of the mining operations duly certified by the District Mineral Officer concerned with intimation to the JKEIAA, JKPCB and the concerned District Administration.
68. An appeal against the EC shall lie with the Hon'ble NGT, if preferred within 30 days as prescribed under Section 16 of the NGT Act, 2010.
69. In the event any conflict in interpretation of Standard /General Conditions vis-a vis Specific Conditions, the Specific Conditions shall prevail.
70. Whereas, it has been noted that that the scheme of mining relates to years from 2015-16 to 2019-20 while as Environment clearance issued is from 2021 for a period of 5 years or upto validity of mining lease date whichever is earlier. Hence the Environment clearance is subject to **the condition that project proponent shall submit a revised scheme of mining with necessary corrections as prescribed duly approved by the competent Authority i.e., Geology Mining Department within period of three months from the date of issuance of Environment clearance.**

Sd/-  
(Lal Chand), IFS,  
Chairman, JKEIAA

No. JKEIAA/2017/27/1347-59

Dated 18 - 05 - 2021

Copy to the:

1. Commissioner/Secretary to Government, Industries & Commerce Department, J&K Government, Civil Secretariat for favour of information.
2. Commissioner/Secretary to Government, Forest Ecology & Environment Department, J&K Government Civil Secretariat for favour of information.
3. Chairman, J&K Pollution Control Board, Jammu. He is requested to properly monitor the Environment clearance conditions and monitoring report thereof may be submitted to this office quarterly failing which E.C. so issued will be treated as null & void.
4. Addl. Pr. Chief Conservator of Forests(Central) Ministry of Environment, Forest & Climate Change, Government of India, Bay No.24-225 31-Dakshan Mark Chanmdigarh-160030 for favour of information.



5. Deputy Commissioner, Doda. He is requested for giving requisite publicity as per procedure & to monitor the compliance of E.C. conditions. In case the E.C. conditions and Pollution control measures are not implemented/installed by the project proponent; the unit may be closed forthwith.
6. Director, Geology & Mining Department, J&K Government, Jammu for information. It may be ensured that all conditions of E.C. are fulfilled.
7. Chief Engineer, Irrigation & Flood Control Department, Jammu for information.
8. Director, Fisheries Department, Jammu for information.
9. Secretary, JK Expert Appraisal Committee, Srinagar for information.
10. Divisional Forest Officer (DFO) Doda for information.
11. Divisional Forest Officer (DFO) Social Forestry Department, Doda for information.
12. Parivesh portal.

*Neelu Gera*

18/5/2021

(Dr. Neelu Gera) IFS

Pr.CCF/ Director, EE&RS

Member-Secretary, JKEIAA





0191-2474553/0194-2490602

Government of India

Ministry of Environment, Forest &amp; Climate Change

**J&K ENVIRONMENT IMPACT ASSESSMENT AUTHORITY****(at) DEPARTMENT OF ECOLOGY, ENVIRONMENT AND REMOTE SENSING**

S.D.A. Colony, Bemina, Srinagar-190018 (May-Oct)/ Parvashan Bhawan, Transport Nagar, Gladni, Jammu-180006 (Nov-Apr)

Email: jkseaa@gmail.com, website: www.parvash.nic.in

**CORRIGENDUM**

Kindly read the following geo-coordinates:

Pillars	Latitude	Longitude
P	33° 06' 39.93"N	75° 26' 14.27"E
Q	33° 06' 35.08"N	75° 26' 20.95"E
R	33° 06' 31.55"N	75° 26' 42.56"E
S	33° 06' 27.22"N	75° 26' 40.98"E
T	33° 06' 21.16"N	75° 26' 35.31"E
U	33° 06' 20.65"N	75° 26' 22.80"E
U'	33° 06' 21.64"N	75° 26' 22.80"E
V	33° 06' 26.50"N	75° 26' 34.92"E
W	33° 06' 33.39"N	75° 26' 23.13"E
X	33° 06' 27.10"N	75° 26' 15.64"E
Y	33° 06' 38.08"N	75° 26' 12.91"E

Instead of the Geo-coordinates issued vide Environmental clearance No.JKEIAA/2017/27/1347-59 dated 18-05-2021 under proposal No.SIA/JK/MIN/59286/2019.

  
 (Staff Officer)  
 to Pr.CCF/Director/JKEIAA  
 Ecology, Environment & Remote Department,  
 Jammu.

No: JKEIAA/2017/27/5772-5804

Dated: 03-02-2022

Copy to the:-

1. Commissioner/Secretary to Government, Mining Department, J&K Government, Civil Secretariat for favour of information.
2. Commissioner/Secretary to Government, Forest Ecology & Environment Department, J&K Government Civil Secretariat for favour of information.
3. Chairman, J&K Pollution Control Board, Jammu for favour of information.
4. Regional Officer, Integrated Regional Office, Jammu, Ministry of Environment, Forests and Climate Change, J&K & Ladakh UT for favour of information.
5. Deputy Commissioner, Doda for information and necessary action. This has reference to your office No: 1473/SQ dated: 23-10-2021
6. Director, Geology & Mining Department, J&K Government, Jammu for information and necessary action. This has reference to your office No: DD(MI)/TS/Udh-MP/Phase/2020-21/922-26 dated: 25-10-2021.
7. Chief Engineer, Irrigation & Flood Control Department, Jammu for information.
8. Director, Fisheries Department, Jammu for information.
9. Secretary, JK Expert Appraisal Committee, Srinagar for information.
10. Divisional Forest Officer (DFO) Doda for information.
11. Divisional Forest Officer (DFO) Social Forestry Department, Doda for information.
12. M/S Baba Farid-ud-din Baghdadi Minerals for information. This has reference to your application dated: 29-10-2021.
13. Parivesh portal.

**SIX MONTHLY COMPLIANCE OF STIPULATED  
ENVIRONMENTAL CONDITIONS/SAFEGUARDS  
IN THE ENVIRONMENTAL CLEARANCE**

**(October 2024 to March 2025)**

**FOR**

**BARIAS KOTHIYAR GYPSUM MINE**  
**VILLAGE- BARIAS, KOTHIYAR,**  
**DISTRICT- DODA, STATE JAMMU & KASHMIR**  
**(FOREST LAND: NIL, WASTE LAND 15.18 HA)**  
**(AREA: 15.18 ha)**

**SUBMITTED BY:**  
**M/S BABA FARID-UD-DIN BAGDADI MINERALS**  
**REG. OFF.-338-DALPATIAN, JAMMU**  
**DISTRICT: JAMMU (J&K)**  
**MOB. NO.: 99419193100**

## ANNEXURE LIST

Sr. No.	Annexure
1.	Copy of lease Deed
2.	Supplementary Lease Deed
3.	NOC of Forest Department
4.	Consent to Operate (CTO)
5.	Copy of Land NOC
6.	Copy Of Land Royalty
7.	Paper Cutting of Advertisement (Local News Paper)
8.	Air Quality Report
9.	Photographs of Air Sampling
10.	Photographs of Water Sprinkling
11.	Ground Water Quality Report
12.	Surface Water Quality Report
13.	Noise Monitoring Report
14.	Free Medical Camp & Certificate of Doctor
15.	Distribution of Stationery & Cleanliness Drive nearby lease area (CER)
16.	KML of Lease Area
17.	Rest Shelter
18.	Photograph of Display Board
19.	Photographs of Pillars
20.	Copy of Payment Schedule
21.	Photograph of Dustbin

## **1. Introduction :**

Shri S.N.H Kazmi Prop. Of M/S Farid Ud Din Bagdadi Minerals for Barias Kothiyar Gypsum Mining Project at Village –Barias Kothiyar, Tehsil & Distt. –Doda over an area of 15.18ha, has obtained the Environmental Clearance Letter from Ministry of Environment, Forests and Climate Change with production capacity of 75351 MT/Annum vide letter Ref. No. JKEIAA/2017/27/1347-59 dated 18-05-2021.

The total area of the mining site is 15.18 Ha. The total cost of the project will be Rs. 101.16 Lakhs . The approval for the Mining Scheme and Progressive Mine Closure Plan was obtained from Government of J&K Department of Geology & Mining, vide Letter No. DGM/F-435/AOMP/4860-67 DATED 23.02.2017

## **2. Purpose of the Report**

As per the “sub Para (ii) of “Para-10” of EIA notification 2006, it is started that it shall be mandatory for the project management of submit half yearly compliance reports of the stipulated prior environmental clearance terms & conditions in hard & soft copies to the regulatory authority concerned, six monthly compliance report should be submitted to the J&K Environment Impact Assessment Authority (Department of Ecology, Environment & Remote Sensing), Jammu & Regional Office, MOEF, JKPCB. It is mandatory to submit six monthly compliance report to show the status & compliance of all the conditions mentioned in Environment Clearance Letter, along with monitoring of various Environmental Parameters.

This report is supposed to submit after every six month as per the conditions stipulated in Environment Clearance Order. The Environmental Assessment has been carried out to verify:

- That the proposed project has not any adverse effect on the project site as well as its surroundings.
- That there is compliance with the conditions stipulated in the Environmental Clearance Letter.
- That the Project proponent is implementing the environmental safeguards and environmental pollution mitigation measures as suggested in Environmental Clearance.

## **3. Methodology for Preparation of Report is as follows:**

- Study of EC Letter & Related Documents.
- Site Visits by a Team of Experts.
- Monitoring of Environment Parameters, viz. Ambient Air, Water, Noise, Soil.
- Analysis of Samples collected during Monitoring.
- Preparation of six monthly Environmental Compliance Report.

## **BRIEF OF THE PROJECT**

Shri S.N.H Kazmi Prop. Of M/S Farid Ud Din Bagdadi Minerals for Barias Kothyar Gypsum Mining Project at Village –Barias,tehsil & Dist. –Doda over an area of 15.18ha. Initially lease executed on 01-09-2005 for a period of 20 years. The copy of lease deed is enclosed (**Annexure No.01**). State Govt. extended the lease for another 5 years & shall be expired on 31-08-2030 The copy of supplementary lease deed is enclosed (**Annexure No.02**). Lessee has obtained the Environmental Clearance Letter from Ministry of Environment, Forests and Climate Change with production capacity of 75351 MT/Annum vide letter Ref. No. JKEIAA/2017/27/1347-59 dated 18-05-2021, Copy is enclosed **Annexure No. 1**. The project fall as category of „B1“ as per EIA notification, September 2016..

### **Location of the Mine Site:**

<b>Latitude</b>	33° 06' 20.65" N to 33° 06' 39.93" N
<b>Longitude</b>	75° 26' 12.91" E to 75° 26' 42.56" E

### **Details of the Project:**

<b>Name of the Project</b>	Barias Kothyar Gypsum Mining Project (Minor Mineral)
<b>Village</b>	Village –Barias,tehsil & Dist. –Doda, Jammu & Kashmir(UT
<b>Tehsil</b>	Doda
<b>District</b>	Doda
<b>Mining lease area</b>	15.18 ha (State Government Land)
<b>Method of mining</b>	Open cast Semi-Mechanized
<b>Water requirement</b>	6.2 KLD
<b>Manpower requirement</b>	26
<b>Ecological sensitive Areas (National Park, Wild life sanctuaries, Biosphere reserves etc.) with in 10km radius</b>	None within 10 km radius of mining lease area.
<b>Reserves/protected forest with in 10km radius</b>	None within 10 km radius of mining lease area.

**For Extraction of Gypsum (Minor Mineral) by Shri S.N.H Kazmi Prop. Of M/S Farid Ud Din Bagdadi Minerals for Barias Kothiyar Gypsum Mining Project at Village –Barias Kothiyar, Tehsil & Distt. –Doda over an area of 15.18ha, Jammu & Kashmir(UT)**

S. No.	Standard Conditions	Status of Compliances
<b>Statutory compliance</b>		
(a)	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court of J&K, Hon'ble NGT and any other Court of competent jurisdiction, <b>as may be applicable.</b>	Agreed, All court orders applicable time to time shall be strictly implemented within stipulated time frame.
(b)	The Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	Agreed
(c)	The UT Government of J&K shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.	Agreed, Mining activities commenced after submission of bank guarantee, (BG) of Rs. 50.00Lac. Further mining is being carried out within lease area in systematic manner there is neither any type of compensation levied nor any penalty imposed due to illegal mining as no illegal mining done.
(d)	This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, <b>if applicable to</b> the Project.	No forest land falls within lease area, therefore forest clearance (FC) under the provision of Forest Conservation Act 1980 is not applicable in this case. However lessee has obtained NOC from forest department before the issuance of Environmental Clearance. NOC from Forest Department is annexed as <b>Annexure No.3.</b>
(e)	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 concerned State Pollution Control Board/COMMITTEE.	Project Proponent obtained Consent to Operate from State Pollution Control Board vide letter no. PCC/digital/22042086531 of 2023 dated 21/08/2023 <b>annexed as Annexure No. 4.</b>
(f)	The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General	Agreed. Mining is carried out according the approved mine plan. Project proponent followed all provisions & procedures as given in approved mining plan and strictly follow minor mineral regulation act of states. All the provision of the mines Act 1952, MMDR 2015 & rules & regulations framed time to time is

	Mines Safety (DGMS) and Indian Bureau of Mines from time to time.	being strictly adhered. As per notification issued by Ministry of Mines (GOI), mineral Gypsum is mineral & does not comes under preview of Indian Bureau of Mines (IBM). Various circulars issued time to time from Directorate General of Mines safety is being implemented regularly.
(g)	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.	Mining lease area is state owned land & private land. The proponent has obtained consents from various stack private land owners for exploitation of gypsum from their land. The copy of NOC is enclosed. <b>(Annexure no.5)</b> Proponent has paid royalty to land owners as a compensation as per terms & conditions. Expenses incurred as a compensation to land owners is enclosed <b>(Annexure no.6)</b>
(h)	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IAJI (M), dated 29 <sup>th</sup> October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area.	No Village / Habitations exist within 50 Meters of the Mining Lease area. Project Proponent follow & practiced the Mitigation Measures. However few scattered dwelling exists in the vicinity of lease area & filled in tanker from springs & transported to lease area to meet various activities. 50m barrier zone is being kept from habitation/dwellings exist within area & same is considered as "Restricted zone of Mining" & same is also mentioned in approved mining plan.
(i)	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.	No mineral processing is involved & ground drawl is required. Therefore necessary permission is not required from CGWB. The total water consumption is less than 10 KLD so there is no requirement of NOC form CGWB.
(j)	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.	Agreed, The copy of EC letter has been submitted to concerned Panchayat/ Local NGO.
(k)	State Pollution Control Board/COMMITTEE shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.	Agreed
(l)	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area.  The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/COMMITTEE and web site of the Ministry of Environment, Forest and Climate Change ( <a href="http://www.environmentclearance.nic.in">www.environmentclearance.nic.in</a> ). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.	Agreed. Advertisement in local Newspaper was made & copy of the same is enclosed (Annexure No7).
(m)	The Project Proponent shall inform the MoEF &	At present there is no change in the ownership of mining lease. In future if any changes occurred in the

	CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	ownership of mining lease, the mining activities shall be carried out after transfer of EC.
<b>(b) Air quality monitoring and preservation</b>		
(1)	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM 2.5, NO2; CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PC/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.	Agreed. Project proponent carried out Air quality monitoring. Air monitoring was carried out towards upward & downward wind direction & critical parameters collected & analyzed as per the methodology mentioned in NAAQS notification no. dated 18-11-2009. Air Quality Report is annexed as <b>(Annexure No.8)</b> & Photographs of Air Sampling enclosed <b>(Annexure No.9)</b>
(2)	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required 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 conform to the standards prescribed by the MoEF & CC Central Pollution Control Board.	Agreed. Water Sprinkling is being carried out regularly at the working zone and at haul roads loading & unloading point & transfer points to arrest the dust due to movement of vehicles. Vehicles registered from PSU shall be deployed in the mining area & regular maintenance of vehicles is being carried out to control the emission within the prescribed permissible limits. The loaded tippers or trucks shall be covered by tarpaulin & overloading of vehicles shall be avoided. Photographs of Water Sprinkling are enclosed <b>(Annex. No. 10)</b>
<b>(c) Water quality monitoring and preservation</b>		
(1)	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 MoEF & CC 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.	Two dry nalla called Barias & Adwas flows from the area and meet the Raggi Nala. The Raggi Nalla is perennial and is about 1 Km. away from the proposed lease area. Hand pumps were dug with in the nearby Villages & depth of water table is 40m to 60m bgl. Mining operation are confined in the hilly terrain & no ground water intercepted due to mining & allied activities, therefore no approval is required from CGWA for drawl of ground water. No spring was noted having probable catchment relationship with mining area. This eliminate the impact on ground water to a large extent. The proposed bottom level of working pit I is expected up to 1588mRL while pit II will be 1378mRL and water will not be

		intersected by mining operations as the depth of water table is deep and no spring exist within or near the area.
(2)	Regular monitoring of the flow rate of the springs and perennial nallas flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug 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 Groundwater Department / State Pollution Control Board.	Two dry nalla called Barias & Adwas flows from the area and meet the Raggi Nala. The Raggi Nalla is perennial and is about 1 Km. away from the applied area, No spring was noted having probable catchment relationship with mining area, this eliminate the impact on ground water to a large extent. Mining operations shall be undertaken in two pits viz pit I & pit II & depth of pit at the end of lease period shall be 1588mRL & 1378mRL. Hand pumps were drilled out side the lease area in the surrounding villages & depth of water table is 40m to 60m below ground level. Thus ground water will not be intercepted due to mining & allied activities. The quality of ground water is ascertained by collecting ground water samples from bore well and by the hand pumps. Ground water quality report is annexed as <b>Annexure No. 11)</b>
(3)	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board..	Agreed, The project proponent monitor the ground water level & its quality. Mining activities are confined above the water table, therefore there is no changes in ground water level & its quality.
(4)	The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallas 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 the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for 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 & CC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution	Agreed. The Project Proponent under take regular monitoring of natural water course, flowing in and around the mine lease. The monitoring of water courses/ bodies existing in lease area is being carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) surface water quality report is annexed as <b>(Annexure No-12)</b> Mining operations is being carried out away from nalla & waste also dumped towards slope of working pits away from the nalla.

	Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.	
(5)	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF & CC annually	Agreed, The mine area is hilly terrain having undulating topography. Therefore it is not feasible to under take rain water harvesting with in lease area. Rain harvesting measures shall be adopted to augment ground water resources in the area consultation with CGWB/State Ground Water Department. However, proponent has constructed two ponds for storage of rain water. The storage water is being used for water sprinkling along haulage road, loading/unloading points etc.
(6)	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-IAJI (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.	No mineral processing/mineral beneficiation involved in the mine for up gradation of mineral, therefore no polluted water generated & no such proposal for monitoring of TDS, DO, pH, TSS etc. is required.
(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 State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap. The RBM extraction does not involve any industrial or workshop process hence no point arises of collection is treatment of industrial waste water.	Not Applicable. No mineral processing is involved therefore no waste water generated & no question arises for its treatments.
(8)	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/COMMITTEE.	The total water demand is 6.2 KLD .there is no need of water balance study.
<b>(d) Noise and vibration monitoring and prevention</b>		
1.	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Mining is being carried out without adoption of drilling & blasting. HEMM is being deployed for the removal of overburden & interburden. Occasionally rock breaker is being deployed to remove the hard strata. No drilling & blasting is being undertaken in this mine therefore study of peak particle velocity is not conducted. However Rules & Regulations as per the provision of DGMS is being strictly followed.

2.	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights / masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.	Agreed. It is Gypsum mining project and mining is carried out according approved mine plan in day time only. All Mining activities are stopped at night time .so there is no scope of disturbance due to illumination and sound both human & animal populations. During day time Noise level is below the CPCB standard. Noise monitoring was carried out in day & night time & all parameters are with in permissible limits. Noise monitoring report is attached as <b>Annexure No. 13</b> .
3.	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	Agreed. The mining is proposed without adoption of drilling & blasting. Heavy Earth moving machinery (HEMM) shall be deployed for the removal of over burden in day time only for few hours. Therefore noise levels are with in the limit. Workers deployed near the HEMM, is being provided by ear plugs/mufflers to control the effect of noise level.
<b>(e) Mining plan</b>		
1.	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 <b>subject to changes recommended in the specific conditions herein below</b> . No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, 0.6 & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, 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.	Agreed. Gypsum mining shall be carried out according the approved mining plan. Mining is being carried out in different pit through the formation of benches. Waste dumped separately secured with proper retaining walls for its stabilization. Local fast growing hard species is also planted along the slope of dump for its stabilization.
2.	The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & 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 Ministry of Environment, Forest and Climate Change for record and verification.	Agreed. Final Mine Closure Plan shall submitted to competent authority prior two year before expiry of lease period. All the proposals given in FMCP shall be strictly adhered by Proponent in time bound barrier. The copy of approved FMCP shall be submitted to competent authority for its record & verification.
3.	The land-use of the 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	Agreed. Mining is being carried out as per the proposals contained in the mining plan. The monitoring and management of rehabilitated area shall be ensured after reaching maximum economical depth of mining pits. As the mining benches shall reach its ultimate pit limit, benches shall be rehabilitated with local species of plants in consultation with forest department.

status shall be submitted half-yearly to the MoEF & CC and its concerned Regional Office.

**(f) Land reclamation**

1.	<p>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.</p>	<p>The waste generated from pit I shall be dump separately towards slope side while waste to be generated from pit II dumped towards eastern flank over non mineralized zone. Dumping is being carried out in single terrace &amp; slope of dump is kept 37°. Local fast growing local species planted over it for its stabilization. Intercalations of non-Gypsum formations and other associated impurities within the mineral body have been considered as 5%. Thus the ultimate recovery of Gypsum within the mineral body has been considered as 95% (80% as pure gypsum &amp; 15% as subgrade mineral). The overburden is phyllites &amp; interburden is intercalations of non Gypsum formations within Gypsum band. The top soil to be generated shall be used for the purpose of plantation therefore no proposal has been given for its stacking.</p>																																								
2.	<p>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 adhered to maintain the stability of waste dumps.</p>	<p>The waste generated from pit I dump separately towards north east flank while waste to be generated from pit II dumped towards eastern flank over non mineralized zone. Dumping is being carried out in single terrace &amp; slope of dump is kept 37degree.</p> <p>The geometry of waste dumps as on date, at the end of plan period generated &amp; at the end of conceptual period is as below:</p> <table border="1" data-bbox="1013 1518 1540 1742"> <thead> <tr> <th colspan="2" rowspan="2"></th> <th colspan="4">Dimension of dump</th> </tr> <tr> <th>Length</th> <th>Width</th> <th>Height</th> <th>Slope (deg)</th> </tr> </thead> <tbody> <tr> <td>As on date</td> <td>D-1</td> <td>50</td> <td>42</td> <td>8</td> <td>37</td> </tr> <tr> <td></td> <td>D-2</td> <td>20</td> <td>28</td> <td>6</td> <td>37</td> </tr> <tr> <td></td> <td>D-3</td> <td>124</td> <td>12</td> <td>5</td> <td>37</td> </tr> <tr> <td></td> <td>D-4</td> <td>110</td> <td>80</td> <td>18</td> <td>37</td> </tr> <tr> <td></td> <td>D-5</td> <td>120</td> <td>58</td> <td>18</td> <td>37</td> </tr> </tbody> </table>			Dimension of dump				Length	Width	Height	Slope (deg)	As on date	D-1	50	42	8	37		D-2	20	28	6	37		D-3	124	12	5	37		D-4	110	80	18	37		D-5	120	58	18	37
		Dimension of dump																																								
		Length	Width	Height	Slope (deg)																																					
As on date	D-1	50	42	8	37																																					
	D-2	20	28	6	37																																					
	D-3	124	12	5	37																																					
	D-4	110	80	18	37																																					
	D-5	120	58	18	37																																					
3.	<p>The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan..</p>	<p>Agreed. As the dump shall reach its maximum height it shall be terraced properly &amp; local species shall be planted over it. Retaining wall erected at the base of dump for its stabilization.</p>																																								
4.	<p>The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent</p>	<p>The waste material to be generated dumped towards the slope of working pit</p>																																								

	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	secured with retaining water for its stabilization. Dumping carried out in single terrace & slope of dump shall be kept 37°. Local hard species shall be planted over dumps for its stabilization. The use of geotextiles/geomembranes /clay lines/ Betonies etc. shall be undertaken for stabilization of dumps.
5.	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.Chandigarh	As per approved Scheme of mining the maximum dump height shall be 18 meter & dumping shall be carried out in single terrace. To accommodate waste material, two dumps shall be erected on the non-mineralized zone. However in future of dump height increases up to 30 meter then slope stability study shall be carried out and shall be submitted.
6.	Catch drains, settling tanks and 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 maintain properly.	Proponent has constructed about 250m long linear drain having width & depth 0.75m respectively along the sides of mining pits to prevent run-off of water & flow of sediments directly into water bodies. It is being ensured that drain de silted regularly & maintain properly to channelize the water rain.
7.	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies, A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	Agreed . As per approved mining Plan the Gravity retaining wall having width & height 1.5m & 1.0 respectively erected at the sides & slope of dump to arrest rolling down the boulders/scree. 4 nos. of check dams having dimension 8x4x1.5 made across nalla to prevent runoff & sediment flow into adjoining water bodies.
8.	The top soil, if any, shall temporarily be stored at 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.	The proposal area is devoid of soil cover & during mining activities, generation of top soil is nil; therefore no proposal has been envisaged for its separate stacking. In future, mining benches reaches its ultimate pit limit; benches shall be rehabilitated with waste material. A DGMS guideline is being strictly adhered to maintain the stability of dumps.
<b>(g) Transportation</b>		
1.	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	No village/habitation falls under mining area zone. The proponent developed bypass road for transportation of mineral& expenses for its maintenance is being

	of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated.)All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.	borne by the proponent. During mining operation dust particle are blown with wind due to movement of vehicles. Water Sprinkling carried out at the working zone and at haul roads to arrest the dust due to movement of vehicles. Vehicles registered from PSU deployed in the mining area & regular maintenance of vehicles carried out to control the emission within the prescribed permissible limits. The loaded tippers or trucks shall be covered by tarpaulin & overloading of vehicles shall be avoided.
2.	The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control 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.	Agreed. Water sprinkling is being carried regularly out in haul roads during dry spell of months to suppress the air borne dust Apart from this other roads is being wetted regularly with tanker mounted water sprinkling system. No crushing activities is being carried out therefore no protective measures adopted to suppress fugitive dust emission. Water sprinkling is being carried out in dust from areas likely material transfer permits, material yards etc.
<b>(h) Green Belt</b>		
1.	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	Agreed. Green belt developed within 7.5 m barrier zone around mining lease area, avenue plantation along the haul roads & around the village is being carried out during monsoon period to improve the aesthetic beauty of the area. The plantation to be raised in consultation with the local DFO/Agriculture Department.
2.	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.	Agreed. 800 locally thrive samplings were planted in consultation with the State Forest Department during September 2024. In which approx. 624 plants are survived and grow. The plantation was carried out along haul road, over waste land etc.
3.	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State	Agreed, The proponent in consultation with State Govt. is planning to develop grazing land over non mineralized area within lease hold. The type of stimulated to be grow will be decided

	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 midday shelter from the scorching sun, should be scrupulously guarded/protected against felling and plantation of such trees should be promoted.	after consultation with Horticulture department. Mining & allied activities are proposed in such areas having no vegetation & not a single tree will cut & fell during course of mining. Apart from this, all effective measures are being adopted for protection of sparse trees.
4.	The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I 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 Plan shall be approved by Chief Wild Life Warden of the State Govt. 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.	Within the periphery of 500 m gypsum Mining project, no Special / Endangered Species is available. All precautionary measures are being adopted for conservation and protection of endangered flora and fauna. As information gathered by local villagers and Sarpanch, the schedule-I species is not yet seen or reported from near the lease area. Besides, there is no Wild Life sanctuary within a radius of 10 KM reportedly.

**(i) Public hearing and human health issues**

1.	The Project Proponent shall appoint an Occupational Health Specialist for Regular as well 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 carry out 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 MoEFCC Regional Office and DGMS on half-yearly basis.	Project proponent organized free medical camp for worker and local villagers for periodic medical examination of workers engaged in mining activities as per DGMS guidelines. During medical camp, occupied health checkup like BP, diabetes, others blood test was also conducted. After examination few workers refer to nearest Govt. hospital for better medical checkup. The report of medical examinations is maintained properly. The photographs of medical camp is enclosed ( <b>Annexure no.8</b> )
2.	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.	Workers are well dressed with mask, boot, and ear plugs and provided with adequate training & information for safety & health aspects. A vocational training programme is being held about awareness of health safety.
3.	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 carry out base line HRA for all the category of workers and thereafter every five years.	The proponent undertake all necessary steps to assess potential risks to health & with determine appropriate control measures to protect the health. Proponent also create awareness & educate the nearby community & workers for sanitation, Hygiene, women health, hazard of tobacco & alcohol use.

4.	<p>The Proponent shall carry out Occupational health surveillance 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 out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of 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 State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x 14 inches and of good quality).</p>	<p>Proponent organized health camp for workers and local villagers to monitor practical and feasible effect due to mining activity. Full body checkup of workers engaged in the mine is being carried by proponent &amp; its record to properly maintained.</p>
5.	<p>The Proponent shall maintain a record of performance indicators for workers which includes</p> <ul style="list-style-type: none"> <li>(a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5-24.9,</li> <li>(b) The Final Chest X-Ray compared with the base line X-Ray should not show any capacities,</li> <li>(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 ratio) unless they are smokers which has to be adjusted, and the effect of age,</li> <li>(d) Their hearing should not be affected. As a proof an Audiogram (first and last need to be presented),</li> <li>(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,</li> <li>(f) They should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEF &amp; CC annually along with details of the relief and compensation paid to workers having above indications.</li> </ul>	<p>The gypsum mining does not include extraction of any health hazardous heavy minerals nor any siliceous mineral involved. The proponent carried out medical camp for workers &amp; regular checkup of their health issues &amp; maintain a record of their health issues problems. The first aid kit is available on mine site and all precautionary measurement with regard to Covid -19 is being taken during mining operation. Ear plugs and mufflers provided to each worker to minimize the hearing effects. The working load of each worker must be minimize to avoid the back pain and neck pain also shall be followed a strict provision of rest over during mining time.</p>
6.	<p>Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water</p>	<p>Maximum no of workers are locale people and they comes from their home to work in the mine. After over the shift, the workers back to their home. Therefore there is no need if any kind of fuel for working within lease area. Besides that temporary tin-shed rest shelter are provided with facility of drinking water,</p>

	should be treated with STP in order to avoid contamination of underground water.	toilet etc. No domestic waste water produce with in area therefore no provision has been given for treatment of waste water. The photographs of rest shelter is enclosed.
7.	The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing, if applicable, 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.	No major issues were raised during public hearing. However some minor questions were raised by local villages in public consultation & proponent is taking care of it & all efforts are being carried out for its implementation.
8.	The project proponent shall implement standard operating Procedures(SOPs) and guidelines issued by ministry of health & family welfare and the UT disaster management authority of J&K with respect to containment of COVID-19 outbreak in mining site	All instructions as suggested in SOP & guidelines issued by Ministry of health & family welfare & disaster management authority in respect of pandemic covid-19 is being strictly followed.
<b>(j) Corporate Environment Responsibility (CER)</b>		
1.	Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office.	Funds are kept separately for environment protection measures. The funds are kept in separate account intact & not be diverted for other purpose. The year wise expenditure of funds shall be reported to concerned authorities.
2.	The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. III dated 30/09/2020 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.	Under CER provisions Free Medical Camps, Distribution of Stationery in Schools and Distribution of Garbage Bins in Schools, solar street lamp were implemented installed in and around the villages. The evidence proof of purchase of documents are enclosed ( <b>Annexure No.15</b> ). The photographs of solar street light, distribution of stationary, fee medical camp etc. is enclosed Annexure no.15A)
<b>(k) Miscellaneous</b>		
1.	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.	Agreed. The 'Environmental Management Cell' with suitable qualified manpower shall be set-up under the control of a Senior Executive with adequate number of qualified Environmental Scientists and Mining Engineers & details shall be furnished in next compliance report.
2.	The concerned Regional Office of the MoEF &CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information/ monitoring reports.	Agreed and shall be followed .
3.	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	We are submitting six monthly compliance reports on the status of implementation of stipulated environmental safeguards measures commencement of mining activity.
4.	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated	Agreed

	environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	
5.	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area and KML file for recording the base line data and closure time data (after three years) and submit a report to concerned Regional Office of the MoEFCC.	The KML of lease area is enclosed ( <b>Annexure No. 16</b> ). However land use & land cover map (LULC) of lease area shall be submitted in next six monthly compliance report.
<b>Other Condition</b>		
1.	A copy of clearance letter shall be sent by proponent to concerned Panchayat, Zilla Parisad/ 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 Institute by the proponent.	Agreed and Followed
2.	The proponent shall upload the status of compliances of the stipulated EC conditions, including results of the monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF & CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant level namely: SRM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient level as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the institute in the public domain.	Agreed,
3.	The environmental status for the each financial year ending 31 <sup>st</sup> March in Form- Vas 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 EC conditions and shall also be sent to the respective Regional Officer of the MoEF & CC by e-mail.	Agreed
4.	The Environment Clearance shall be Valid for a period of five years from the date of its issuance or as per guide line from the MoEF & CC issued in the regard whichever is less.	Agreed and shall be followed.
5.	Any appeal against the clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010	Agreed.
<b>Specific Conditions</b>		
1.	The Environmental clearance is subject to relevant NOCs/Joint Inspection report submitted by the Project Proponent. The EC shall be subject to compliance of conditions of the NOCs issued by stake holder departments.	Agreed and shall be followed
2.	This Environmental clearance is without prejudice to the outcome of any petition lying disposal before any Hon;ble court of competent jurisdiction.	Agreed.
3.	The Environmental clearance is subject to NOC from the local villagers whose land is involved in the project besides, implementation of all decision recorded mutually in the PH report during the public hearing.	Agreed. The Mining area is State land and Private Land. The proponent has obtained NOC from various land owners against the mining & allied activities in their respective land.
4.	The project proponent shall revise the environmental management plan with total budget of 50.00lacs or 5% of the revenue earned during the violation period (from 2005 when the	The proposal given in remediation & augmentation plan is being implemented in phase wise manner & detail report of

	<p>mining activity was started till 2016 when it was stopped by the DNM for want of EC as reported by pp) through mining of minerals from the site in violation of the EP Act by operating without a valid EC ,whichever is more ,in accordance with Notification No.S.O 1030(E) dated 8<sup>th</sup> March ,2018.the earmarked fund shall be spent over a period of 3 year on construction of protective retention walls, check dams, restoration of green cover and eco –rehabilitation works under remediation plan, natural and community resource Augmentation Plan which also includes ,life and health insurance of miners including labors involving in the mine activity directly or indirectly, up gradation of health facilities, shelters, toilets ,and drinking water facility for miners. After 3<sup>rd</sup> year , the EMP shall keep a recurring provision of Rs15.00 lacs per annum under monitoring of ambient air quality, dust suppression ,checking of soil erosion , green belt development, life and health insurance of miners and implementation of covid -19 SOPs in mining area. The revised version of the EIA/EMP giving year wise allocation shall be submitted before formal grant of environmental clearance by JKUTEIAA. The Consultant shall also rectify other mistakes in the documents pointed during deliberation</p>	<p>augmentation plan &amp; remediation plan shall be submitted in next six monthly compliance report.</p>
5.	<p>Under CSR, within 2 km radial distance, activities like regular health check-up of local villagers once a week shall be undertaken with free medicines. Safe drinking water facility by way of renovation of existing tanks/wells, digging of new tube wells and installation of water filters shall be undertaken. Skill development trainings shall be organized for unemployed local youth. Further, construction of toilets in schools, solar street lighting, free distribution of books, note books, N95 masks, hand sanitizers and school bags among students within 2 km radius from the mine area shall be undertaken. Under EMP, with 2 kms radial distance from mine area; air, water, soil, noise pollution monitoring on half yearly basis, black topping of roads passing through villages and maintenance of haulage /extraction routes, water sprinkling, PPE to mine workers, bearing of school/college fee and allied costs on education of children of mine workers, bearing of all costs on aliments/healthcare of mine workers, creation of green belt by way of raising and maintenance of 2500 trees per hectare on land identified by DFO Social Forestry concerned in consultation with village panchayat during the period of mining, shall be undertaken.</p>	<p>Agreed. All the condition is being followed. Regular health checks up, providing drinking water facilities to local villagers, installation of street light, construction of toilets, free distribution of books, school bags etc. to children. Skill development training camp is being organized under competent supervision for unemployed local youth. Proponent laid down drinking water pipe line in the villages for supply o water. The haulage/extraction routes is being maintained properly &amp; water sprinkling is being carried out to suppress the air borne dust. Proponent has planted 800 sapling in the month of September 2024 out side the area in consultation by DFO &amp; as well as with village Panchayat.</p>
6.	<p>Under EMP, with 2km radius ; distance from mine area: air ,water, soil, Noise, pollution monitoring on half yearly basis ,maintenance of haulage road ,water sprinkling, PPE to mine workers, bearing of school/ collage fee and allied cost on education of children of mine workers, creation of green belt by way of raising and maintenance of plantation on land identified by the local functionary of the soil conservation dept. concerned in consultation with village panchyat during the period of mining, shall be undertaken</p>	<p>Air, water, soil, Noise, pollution monitoring on half yearly basis is done and PPE kit gloves and boots ,helmet etc. provided during mining activity. Plantation other dump &amp; in virgin area carried out with consultation of village Panchayat.</p>
7.	<p>The funds earmarked under EMP/CER and CSR shall be kept in separate accounts and shall not be diverted for other purpose .year wise expenditure shall be reported to this ministry and its concerned Regional office at Chandigarh.</p>	<p>Funds earmarked under EMP/CER &amp; CSR kept separately &amp; not diverted for other purpose.</p>
8.	<p>in accordance with Notification No.S.O 1030(E) dated 8<sup>th</sup> March ,2018,the project proponent shall submit a bank guarantee equal to 50.00lacs or 5% of the revenue earned (from date of operation</p>	<p>Agreed. The Augmentation plan submitted to SEIAA prior to grant of EC and Bank guarantee of 50 Lacs was</p>

	of mine without EC to the date when threw PP applied for grant of TOR) whichever is more ,with the J&K Pollution control board before grant of E.C and the same shall be released only after successful implementation of the Rededication plan ,natural & community Resource Augmentation Plan and on Recommendation of Regional office of the Ministry of Environment, forest & climate change (MoEF&CC)and JKEAC and after approval of the JK Environment impact assessment Authority.	submitted before EC.
9.	The Project proponent shall involve local Panchyat in identification of works under CSR/CER/EMP and the fund ,shall be utilized in consultation with field functionaries of government Departments	During the public hearing, it was decided that local panchyat body involved in making decision of utilization of CSR /CER fund & accordingly funds is diverted for completion of various activities in consultation with field function arise of Government Department.
10	The project proponent should concurrently backfill the mined – out area, level it completely and restore the land for its future use as per technical guideline prescribed in Mine closure plan. Compliance status should be submitted to the Ministry of Environment and Forest and its Regional office on Six monthly basis.	During next five years, benches reach its ultimate pit, rehabilitation of benches shall be carried out. The mined out area shall be backfilled/reclaimed by waste material & local fast growing plant/scrubs shall be planted to improve aesthetic bearing of area.
11	Check dams of appropriate size should be constructed to arrest silt and sediment flows from mine working, soil and mineral dumps. The water so collected should be utilized for watering mine area, road, and green belt development etc. The drain should be regularly desilted and maintained properly.	Agreed, The seasonal nalla passes with in area. The proposal of mining is given for away from the nalla. Proponent has erected adequate check dams across the seasonal drainage to prevent run off material in to drainage. The broken or damage check dams repaired immediately. The water collected is utilized for watering the haul roads, green belt development etc. Distilling & maintenance of check dam is being done frequently.
12	Garland drain of appropriate size,gradient and length shall be constructed for mine pit and mineral dumps and ump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall and maximum discharge in the area adjoining the mining site.Sump capacity should also provided adequate retention period to allow proper settling of site material.	Agreed. No proposal for garland Drainage is given in approved mining plan.
13	The proponent Should not carry out drilling and blasting	Agreed. There is no proposal of drilling & blasting in approved mining plan. Exploration of gypsum is being carried out without adoption of drilling & blasting. Rock breaker is being used for dislodge, the hard strata boulders.
14	Automatic Air quality monitoring station should be installed so that the PCB get regular updates on air quality in mine area and its surrounding.	Air monitoring stations towards up wind & down wind direction with in core zone & buffer zone has been fixed & properly marked.
15	Regular water sprinkling should be carried out in critical area prone to air pollution and having high level of SPM and RPM such as haul road ,loading and unloading point and transfer points. It should be ensured that the ambient air quality parameter conform to the norms prescribed by the central Pollution Control Board in this Regard.	Water sprinkling shall be done twice a day on haul road ,loading and unloading point and transfer points during Commencement of mining operation to ascertain the norms prescribed by the central Pollution Control Board in this Regard.

16	Vehicular emission should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operation AND in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be over loaded.	Vehicles registered from PSU are deployed in the mining area & regular maintenance of vehicles is being carried out.
17	A final mine closure plan along with details of corpus fund should be submitted to the ministry of environment and forest in advance of final mine closure as per approved mining plan.	Final mine closure plan shall be submitted prior one year before expiry of lease period. All pre-ventive measures in hard down the FMCP shall be strictly implemented by lessee.
18	All measures should be taken for surveillance of mined out mineral as per guideline of MoEF&CC if any in this regard.	CCTV camera installed on exit and entry points of lease area. Surveillance guards are appointed for regular monitoring of mined out material to be transported.
19	Security arrangement, use of surveillance system, installation of weigh bridge, GPS tracking System Etc. Need to be put in place for Prevention of illegal mining from site.	CCTV camera installed on exit and entry points of lease area. Surveillance guards are appointed for regular monitoring of mined out material to be transported. Vehicles used in transportation are equipped with GPS tracking System.
20	All the Provision of minor mineral rules sanctioned under SRO105 with all amendments with respect to pertinent provisions of the legal framework relating to progressive mine closure shall be complied by the project proponent.	Agreed, The activities mentioned in the progressive mine closure plan shall be implemented in time bound manner & all the provision of minor mineral rules amended time to time is being strictly followed.
21	This environment clearance is subject to final outcome of any litigation pending before Hon'ble Supreme court of india ,Hon'ble High court of J&K, Hon'ble NGT, or any other Court of law, if any, as may be applicable to this Project	Agreed. Till the date no litigation is filed against the lease to any Hon'ble court of law or any Government of envisions.
22	This Environment Clearance is without prejudice to the standing instruction /orders from the competent authorities in the MoEF&CC, GoI and the UT of J&K w.r.t mining activity	Agreed.
23	The Project Proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna and flora in area.	No Special / Endangered Species is available within the periphery of 500m of gypsum Mining project, All precautionary measures is being adopted for conservation and protection of endangered flora and fauna as information gathered by local villagers and Sarpanch, the schedule-I species is not yet seen or reported from near the lease area. Besides, there is no Wild Life sanctuary within a radius of 10 KM reportedly.
24	Mask and PPE shall be provided to workers in view of Covid -19.	Agreed. All Precautionary measures related to Covid -19 is being taken by providing Mask , hand sanitizer , PPE kit etc.
25	Social Distancing norms and other standard operating procedure relating to Covid-19 shall be followed during mining activity.	Agreed and Shall be followed.
26	The plan worked out and expenditure made under occupational health should be undertaken in consultation with the local health institution /PHC/Sub-Centre for villagers living in the close vicinity. Regular Medical checkups and free medicines shall be provided under the fund.	Agreed.

27	The project proponent must ensure that the biological clock of villagers in the vicinity of the project is not disturbed by any unauthorizes night operation and all measures must be taken for keep the noise levels within prescribed levels.	Agreed. The mining activity is being carried out done during sunrise to sunset (day time only). No mining activity is carried out in night to maintain the biological clock of worker and villagers. Mining machineries are on hire basis & deployed as when required. The level of noise level is kept with in prescribed limit.
28	Provision shall be kept for housing of labor force, toilet, facilities for cooking, safe water, health care .crèche etc. For the labour force.	Agreed, Temporary rest shelter, toilet facility, first aid kit and drinking water facilities are provided at mining site. The photographs of facilities are enclosed. <b>(Annex. No.17)</b>
29	The top soil in case of surface land mining shall be temporarily stored at the designated/appropriate site and concurrently used for the land reclamation.	The Proposed mine site is devoid of soil cover & soil shall not be generated during course of mining & no such proposal has been envisaged for its storage & management.
30	The mining operation shall be undertaken in systematic manner so that it does not damage the aesthetic view of area.	Agreed. The mining operation shall be done according to approved mine plan.
31	The compliance report shall be submitted to regional office the MoEF&CC at Chandigarh with a copy to the Regulatory Authority.	Agreed, Six monthly compliance report has been submitted SEIAA/7.5m barrier zone has been left all obing the lease boundary & no mining & allied activities shall be carried out.
32	The Mining activity should in no case go beyond area as mention in the lease deed and a buffer area is maintain such that the slope of adjoining area does not get disturbed.	Agreed and shall be strictly followed.
33	All the provision made and restriction imposed as covered in minor mineral rules, shall be compiled with, particularly regarding Environment Management Practices and its fund management.	Agreed and followed.
34	The mining shall be done in bench form as per mining plan approved by competent authority.	Agreed The mining operation is being carried out through the formation of benches according to approved mine plan.
35	Mining Should be initiated only after installation of signboard with demarcation pillars indicating the geo coordinates of the plot as mentioned in the letter of intent, measurement (length/breadth)and should be laid in presence of authorized official of geology & mining dept. the demarcation pillars site should mention the specific EC condition and contact detail of concerned authorities responsible for monitoring of compliance of E.C condition /district administration/police at four corners of mining site prominently on a large size durable display board for enabling the public to inform the authorities in case of violation of E.C conditions. The display board with details shall be maintaining in perfect order throughout the period of lease/ mining.	Agreed. The display board showing the details of 1 acre area is enclosed <b>(Annex. No. 18)</b> The area is properly demarcated & pillars have been created of all corners of area. The photographs of pillars is enclosed. <b>(Annex. No. 19)</b> All pillars are marked with geo coordinates of area that is approved by concerned authority.
36	There should be no change in the method of excavation and quantity of minerals to be extracted.	Agreed. The mining operation is being carried out as per approved mine plan. It is semi mechanize mine with production capacity of 71073MT/Annum & year wise production has been kept within approved limit.
37	The E.C holder shall keep a correct account of quantity of mineral mined out, dispatched from mine, mode of transport,	Agreed. The proponent has maintioned record regarding exploitation &

	registration no. of vehicle, person in charge of vehicle and mine plan. This should be produced before officers concerned for inspection.	transportation of mineral. All quantities of mineral dispatched is being uploaded in the DGM portal along with vehicle registration number. The Vehicles transporting Minerals are loaded strictly as per registered certificate load.
38	The access to mining site should be controlled in way that vehicle, person in charge of vehicles carrying mineral from that area are tracked and accounted for in accordance with standing guideline issued by the govt.	Agreed and shall be followed
39	The Geology & mining Department should use technology like Bar coding, information and communication technology (ICT),web based and ict ENABLED SERVICES, MOBLE SMS app etc.to account for weight of mineral being taken out of the plot and the number of trucks moving out with the mineral.	Agreed. CCTV camera installed on exit and entry points of lease area. Surveillance guard is appointed for regular monitoring of mined out material to be transported. Vehicles used in transportation shall be enabled with GPS tracking System.
40	The PP should ensure no agriculture land in the area is used for any storage of muck or get damaged due to any other transportation activity .wherever, damages to agricultural land ,assets or human or bovine life by the way of plying of trolleys and tippers ect. Involved in transportation of minor mineral is reported, the Project Proponent shall pay adequate compensation with penalty to the effected person as to fixed up by the competent authority.	The land under mining lease area is State Govt. land & private land. The proponent has obtained NOC from private land owners for the exploitation of mineral in their respective land & pay compensation to the private land owners. Proponent paid Rs 6 lakh as compensation from month of April to September 2024. Copy of payment schedule as a evidence proof is enclosed. <b>(Annexure No.20).</b>
41	Waste generated will be collected on regular basis and will be disposed as per the Municipal solid waste management(management &handling)rule 2000 and its subsequent amendments.	Agreed. The solid waste like plastic bottles rapper, gutka pouches etc. to be generated is being stored in the dustbin. The photographs of dustbin is enclosed. <b>(Annex. No. 21 )</b>
42	Springs sources should not be affected due to mining activity .necessary protection measures are to be incorporated.	Agreed No spring noted having probable catchment relationship with mining area. this eliminate the impact on ground water to a large extent.
43	The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Agreed and shall be followed.
44	Over loading of trucks and trolleys will be avoided..	Agreed and shall be followed .
45	All the instruction from representing various government dept. having stakes shall be complied with during the mining operation.	Agreed and shall be followed .
46	Haul road will be kept wide, compact and water spraying will be done .it shall be properly maintain by the PP and restored to original Position after Mining. Axel load on road should not exceed the prescribed load as per IRC.	Agreed. The width of haul road should be 5 meter and the water sprinkling shall be done twice a day on the road to suppress the dust to maintain compactness of road. Maintenance of haulage road shall be done time to time.
47	Restricted working hours. Mining operation has to be carried out between 6 am to 7 pm. During day light. Mining operation shall not be allowed at night.	Agreed. Mining is being carried out as per the approved mining plan and the mining practices carried out between 6 am to 7 pm. During day light. Mining operation are not be allowed at night.
48	No over hangs shall be allowed to be formed due to mining and	Agreed. Mining is being carried out

	mining shall not be allowed in area where subsidence of rocks is likely to occur due to steep angle of slope. Mining activity shall be avoided in rainy season.	systematically by forming benches having bench slope of 54 degree and over all pit slope of 45 degree Mining activities is being carried out in the supervision of competent persons. The mining levels should kept stable with proper face slope & any loose/hanging boulders in the lease shall be removed to avoid any total mining to workers. Mining shall not be executed in area of subsidence of rock or land slide prone zone.
49	Vehicles used for transportation of material are to be permitted only with fitness and PUC certificates.	Vehicles registered from PSU deployed in the mining area & regular maintenance of vehicles is being carried out to control the emission within the prescribed permissible limits. The loaded tippers or trucks shall be covered by tarpaulin & overloading of vehicles are not be allowed avoided. Transportation of Minor mineral Gypsum is carried out far from villages.
50	Adequate facility for drinking water and toilet should be provided for the workers.	Agreed and shall be followed
51	Deep drilled handpump with sufficient funding provision should be earmarked for providing drinking facilities to the labour force.	Agreed and shall be followed
52	Recommendation of national Institute for labour for ensuring good occupational environment for mine workers would also be adopted.	Agreed and shall be followed
53	The PP shall be responsible for enforcement of covid-19 standard operating procedures and guideline with respect to safety of workers involved in mining activity.	Agreed. The, PPE kit ,Mask Hand sanitizes are provided to workers and temperature scanner& first aid kit are available on mine site. All precautionary measurement with regard to Covid -19 is being implement due to mining operation. Social distancing also be followed on the mine site.
54	Health & safety of workers should be taken care of . they should also be provided training in safety and health care aspects.	Agreed
55	Junction at take off point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.	Agreed. The maintenance of haulage road from the mine site to junction of road shall be done by PP is being maintained by proponent.
56	No stacking shall be allowed on road side along national highway or any public road.	Agreed and followed. Stacking of mineral is being carried out with in lease area. The waste dump shall be carried out according the approved mining plan towards the slope of working pit secured with proper retaining walls to avoid any spillage or wash off material during.
57	Concealing of any information/data of submission of wrong/fabricated information by the Project Proponent and failure to comply with any of the above conditions may lead to withdrawal of the EC and attract action under the provisions of EP Act, 1986.	Agreed
58	Mining shall be done manually minimally supported by semi-mechanized methods. Heavy machinery like JCBs, L&T hydraulic excavators etc. should not be allowed. Emphasis	Mining is being carried out manually/semi-mechanized method heaving showers. Gypsum is being

	should be given to employment of locally available labour force to address the socio- economic concerns of the locals.	stacked in proper stack yard with in lease area & after dressing & breeding its supplied to various buyers as per demand. Light excavator is being deployed for the removal of over burden. Mostly local persons are employed in the mining activities.
59	The Progressive Mine Closure shall be as per Rules in vogue. All actions relating to progressive mine closure shall be taken well in advance during the final year of mining so that the site is rehabilitated ecologically.	Agreed
60	The reasonable concerns expressed by the local population during public hearing or otherwise shall be addressed by the Project Proponent. No blasting operations shall be allowed.	The reasonable concerns expressed by local population during public consultation has been resolved by project proponent.
61	The PP shall earmark funds strictly as per the agreed Environmental Management Plan to be spent on environmental monitoring, dust sprinkling, green belt development rehabilitation of mined out area and landscaping/regressing and haulage route maintenance. The detailed updated plan shall be submitted to JKEIAA as per above debilitation before grant of formal EC, if desired by the JKEAC. Further, the CSR funds Shall be earmarked and utilized as per CSR Rules.	Agreed, Funds earmarked for Environmental Management Plan shall be intent separately & shall be utilized for environmental monitoring, dust sprinkling, green belt development etc.
62	The EC is subject to condition that the project proponent obtain NOC/authorization from the owner of land if private land is also involved in mining area .	Agreed, The proponent has acquired NOC from private land owner for mining in their respective land.
63	Under CSR, within 2 km radial distance, activities like regular health check-up of local villagers once a week shall be undertaken with free medicines. Safe drinking water facility by way of renovation of existing tanks/wells, digging of new tube wells and installation of water filters shall be undertaken. Skill development trainings shall be organized for unemployed local youth. Further, construction of toilets in schools, solar street lighting, free distribution of books, note books, N95 masks, hand sanitizers and school bags among students within 2 km radius from the mine area shall be undertaken. Under EMP, with 2 kms radial distance from mine area; air, water, soil, noise pollution monitoring on half yearly basis, black topping of roads passing through villages and maintenance of haulage /extraction routes, water sprinkling, PPE to mine workers, bearing of school/college fee and allied costs on education of children of mine workers, bearing of all costs on aliments/healthcare of mine workers, creation of green belt by way of raising and maintenance of 2500 trees per hectare on land identified by DFO Social Forestry concerned in consultation with village panchayat during the period of mining, shall be undertaken.	Agreed, Regular health checkup, construction of toilets, free distribution of books, note book, school bags etc. are provided to students by proponent falls within 2km radial distance from mine area. Under EMP, activities as suggested are followed in time bound manner. The proponent planted about 800 trees over barren land in consultation with village Panchayat.
64	The JKEIAA reserves the right to impose any other condition in the EC at any time during the period of mining lease. The JKEIAA reserves the right to revoke the EC in case any of the environmental clearance conditions are violated during the mining activity. Mere grant of Environmental Clearance does not entitle the Project Proponent for grant of mining lease unless he obtains all other clearances as required under other provisions of law.	Agreed, The proponent will acquire other requisite documents from concerned department of applicable, & same shall be submitted to concerned agency.
65	The project proponent shall undertake an environmental audit at least once a year by a reputed third-party entity and report of such audit shall be placed in public domain asper rules in	Agreed. Under CER free medical camps are carried out, distribution of stationary in local school is carried out, distribution

	vogue.	of dustbin is carried out to local villagers.
66	After ceasing the mining operations, the project proponent shall undertake re-grassing of the mining lease area and any other area which may have been disturbed due to mining activities and restore the area to a condition fit for growth of flora, fauna and fodder as per rules in vogue.	Agreed, After closure of mine, the waste material shall be backfilled in the mined out pit, levelled it & put use afforestation. The local hard species shall be planted over it to maintain aesthetic beauty of area. Further regressing shall be carried out over the mining lease, over dump for its stabilization.
67	The EC shall be valid for a period of only five years or till the validity period of lease whichever is less , from the date of commencement of the mining operation duly certified by DMO concerned with intimation to JKEIAA, JKPCB and the concerned district administration	Agreed
68	An appeal against the EC shall lie with the Hon“ble NGT, if Preferred within 30 days as prescribed under section 16 of NGT act 2010	Agreed
69	In the event any conflict in interpretation of slandered /general condition vis-a vis specific condition, the specific condition shall prevail.	Agreed
70	Whereas , it has been noted that the scheme of mining relates to year from 2015-16 to 2019-20 while as Environment clearance issued is from 2021 for period of five year or up to validity of mining lease date whichever is earlier . hence the environmental clearance is subject to the condition that project proponent shall submit a revised scheme of mining with necessary correction as prescribed duly approved by the competent authority i.e Geology mining Department with in period of three month from the date of issuance of environment Clearance	Agreed, If lease period extended after expiry period, fresh scheme of mining shall be prepared under Rule & shall be submitted to competent authority for approval.

01=04=25 To 30=09=25		
(SNo)	Particulars	Amt
1.	Water Tanker Monthly rent + HSD - (6 Months) <i>60000/- 4940 litres x 86 =</i>	7,84,840-
2.	Land Compensation (6 Months)	6,62,000=
3.	Road repairing of Kuthyada village Machinery + Labour.	57,000±
4.	Check dam at Dale for malba dumping 5 Pcs	37,500=
5.	Medical Camp Expansive	31,000 =
6.	Bathroom at Olue site Maintenance	6,250 =
7.	Water Pipe line of Gale Village & Kudgan village repairing expansive <i>20000/- 18000/-</i>	38,000
8.	Donation tiles for construction in Kudgan School.	
9.	Bathroom = 2 sets = One set Saboth village Complete Construction	2,00,000 =
	2nd set Kuthyada village under construction = - - -	1,50,000 =
10.	Plantation drive at Olue site →	42,000 =
		}
	Total	20,08,540 =

WATER TANKER



## WATER PIPE LINE MAINTANCE



TOILET



# CHECK DAM







**SITE OFFICE**



**REST SHELTER**



## PLANTATION AT SITE





GPS Map Camera



**Phangota**  
Nh244, Phangota, 182201,  
Lat 33.109147° Long 75.441593°  
Friday, 06/03/2026 03:12 PM GMT +05:30



GPS Map Camera



**Phangota**  
Nh244, Phangota, 182201,  
Lat 33.109151° Long 75.441582°  
Friday, 06/03/2026 03:11 PM GMT +05:30





Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-160924-01	21/09/2024

**Issued to:** M/s Baba Farid-Ud-Din Bagdadi Minerals  
**Location:** Barias Kothiyar Gypsum Mine Village- Barias, Kothiyar, District- Doda, Jammu & Kashmir (U/T) Area: 15.18 ha

### Sampling & Analysis Data

Sample Drawn By : NTL Representative  
 Date of Sampling : 14/09/2024  
 Sample Description : Ambient Air  
 Sampling Plan & Procedure : SOP-AAQ/08  
 Analysis Duration : 16/09/2024 to 21/09/2024  
 Sampling Location : Upside village Barias  
 Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.14  
 Average Flow Rate of Gases (lpm) : 1.0  
 Sampling Instrument Used : RDS (PM<sub>10</sub>) FPS (PM<sub>2.5</sub>) With Gaseous Attachment  
 Weather Condition : Clear

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	58.12	µg/m <sup>3</sup>	100.0
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 Part-XXIV	26.40	µg/m <sup>3</sup>	60.0
3.	Sulphur dioxide (SO <sub>2</sub> )	IS:5182 Part-II	7.38	µg/m <sup>3</sup>	80.0
4.	Nitrogen dioxide (NO <sub>2</sub> )	IS:5182 Part-VI	14.50	µg/m <sup>3</sup>	80.0
5.	Carbon monoxide (as CO)	IS:5182 Part-X	< 1.15	mg/m <sup>3</sup>	4.0

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed of after two weeks from the date of issue of test report, unless until specified by the customer.

Ayaei  
Checked by



**Laboratory :** GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

**Branch Office :**

HARIDWAR | DEHRADUN | PUNE

**E-mail :** noida.laboratory@gmail.com | **Website :** www.noidalabs.com



Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)  
MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-160924-02	21/09/2024

**Issued to:** M/s Baba Farid-Ud-Din Bagdadi Minerals  
**Location:** Barias Kothiyar Gypsum Mine Village- Barias, Kothiyar, District- Doda,  
Jammu & Kashmir (U/T) Area: 15.18 ha

### Sampling & Analysis Data

Sample Drawn By : NTL Representative  
Date of Sampling : 14/09/2024  
Sample Description : Ambient Air  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 16/09/2024 to 21/09/2024  
Sampling Location : downside village- Kotahri  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.14  
Average Flow Rate of Gases (lpm) : 1.0  
Sampling Instrument Used : RDS (PM<sub>10</sub>) FPS (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	54.60	µg/m <sup>3</sup>	100.0
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 Part-XXIV	25.11	µg/m <sup>3</sup>	60.0
3.	Sulphur dioxide (SO <sub>2</sub> )	IS:5182 Part-II	7.05	µg/m <sup>3</sup>	80.0
4.	Nitrogen dioxide (NO <sub>2</sub> )	IS:5182 Part-VI	12.60	µg/m <sup>3</sup>	80.0
5.	Carbon monoxide (as CO)	IS:5182 Part-X	< 1.15	mg/m <sup>3</sup>	4.0

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed of after two weeks from the date of issue of test report, unless until specified by the customer.

Ayaz  
Checked by



**Laboratory :** GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

**Branch Office :**

HARIDWAR | DEHRADUN | PUNE

**E-mail :** noida.laboratory@gmail.com | **Website :** www.noidalabs.com



Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)  
MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-160924-03	21/09/2024

Issued to: M/s Baba Farid-Ud-Din Bagdadi Minerals  
Location: Barias Kothiyar Gypsum Mine Village- Barias, Kothiyar, District- Doda,  
Jammu & Kashmir (U/T) Area: 15.18 ha

### Sampling & Analysis Data

Sample Drawn By : NTL Representative  
Date of Sampling : 14/09/2024  
Sample Description : Ambient Air  
Sampling Plan & Procedure : SOP-AAQ/08  
Analysis Duration : 16/09/2024 to 21/09/2024  
Sampling Location : downside village- Saronda  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.14  
Average Flow Rate of Gases (lpm) : 1.0  
Sampling Instrument Used : RDS (PM<sub>10</sub>) FPS (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	54.16	µg /m <sup>3</sup>	100.0
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 Part-XXIV	25.02	µg /m <sup>3</sup>	60.0
3.	Sulphur dioxide (SO <sub>2</sub> )	IS:5182 Part-II	7.19	µg /m <sup>3</sup>	80.0
4.	Nitrogen dioxide (NO <sub>2</sub> )	IS:5182 Part-VI	12.45	µg /m <sup>3</sup>	80.0
5.	Carbon monoxide (as CO)	IS:5182 Part-X	< 1.15	mg/m <sup>3</sup>	4.0

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed of after two weeks from the date of issue of test report, unless until specified by the customer.

Ajay  
Checked by



Authorized Signatory

Laboratory : GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

Branch Office :

HARIDWAR | DEHRADUN | PUNE

E-mail : noida.laboratory@gmail.com | Website : www.noidalabs.com



Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Water	W-160924-06	21/09/2024

Issued to: M/s Baba Farid-Ud-Din Bagdadi Minerals

Location: Barias Kothiyar Gypsum Mine Village- Barias, Kothiyar, District- Doda,  
Jammu & Kashmir (U/T) Area: 15.18 ha

### SAMPLING & ANALYSIS DATA

Sample Drawn By	: NTL Representative
Sample Received Date	: 16/09/2024
Sample Quantity	: 2.0 Lt.
Analysis Duration	: 16/09/2024 to 21/09/2024
Sample Description	: Ground Water 1 (Hand Pump)

### RESULTS

#### Essential test as per IS:10500-2012/ RA 2023

S. No.	Parameter	Test Method	Results	Units	Desirable Limit	Extended Limit
1.	pH	IS:3025(Part-11)	7.16	-	6.0 – 9.0	-
2.	Colour	IS:3025(Part-4)	<5.00	Hazen	5	15
3.	Odour	IS:3025(Part-5)	Agreeable	-	Agreeable	Agreeable
4.	Taste	IS:3025(Part-8)	Agreeable	-	Agreeable	-
5.	Turbidity	IS:3025(Part-10)	<1.00	NTU	1	5
6.	Total Hardness (as CaCO <sub>3</sub> )	IS:3025(Part-21)	189.2	mg/l	200	600
7.	Chloride (as Cl)	IS:3025(Part-32)	16.50	mg/l	250	1000
8.	Calcium (as Ca)	IS: 3025 (P- 40)	78.16	mg/l	75	200
9.	Iron (as Fe)	IS:3025(Part-52)	0.120	mg/l	1	No Relaxation
10.	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P- 34)	2.88	mg/l	45	No Relaxation
11.	Total Dissolved Solid	IS:3025(Part-16)	321.0	mg/l	500	2000
12.	Alkalinity (as Ca CO <sub>3</sub> )	IS: 3025 (P- 23)	194.0	mg/l	200	600
13.	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P- 24)	25.12	mg/l	200	400

### MICROBIOLOGICAL REQUIREMENT

### RESULTS

S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012/ RA 2023
1.	<i>Escherichia coli</i>	IS-15185	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-15185	Absent	Absent/100ml

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed of after two weeks from the date of issue of test report, unless until specified by the customer.

Ajaji  
CHECKED BY



AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

Branch Office :

HARIDWAR | DEHRADUN | PUNE

E-mail : noida.laboratory@gmail.com | Website : www.noidalabs.com



Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Water	W-160924-07	21/09/2024

Issued to: M/s Baba Farid-Ud-Din Bagdadi Minerals

Location: Barias Kothiyar Gypsum Mine Village- Barias, Kothiyar, District- Doda, Jammu & Kashmir (U/T) Area: 15.18 ha

### SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL Representative  
 Sample Received Date : 16/09/2024  
 Sample Quantity : 2.0 Lt.  
 Analysis Duration : 16/09/2024 to 21/09/2024  
 Sample Description : Ground Water 2 (Hand Pump)

### RESULTS

Essential test as per IS:10500-2012/ RA 2023

S. No.	Parameter	Test Method	Results	Units	Desirable Limit	Extended Limit
1.	pH	IS:3025(Part-11)	7.26	-	6.0 – 9.0	-
2.	Colour	IS:3025(Part-4)	<5.00	Hazen	5	15
3.	Odour	IS:3025(Part-5)	Agreeable	-	Agreeable	Agreeable
4.	Taste	IS:3025(Part-8)	Agreeable	-	Agreeable	-
5.	Turbidity	IS:3025(Part-10)	<1.00	NTU	1	5
6.	Total Hardness (as CaCO <sub>3</sub> )	IS:3025(Part-21)	176.0	mg/l	200	600
7.	Chloride (as Cl)	IS:3025(Part-32)	14.8	mg/l	250	1000
8.	Calcium (as Ca)	IS: 3025 (P- 40)	72.50	mg/l	75	200
9.	Iron (as Fe)	IS:3025(Part-52)	0.110	mg/l	1	No Relaxation
10.	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P- 34)	2.76	mg/l	45	No Relaxation
11.	Total Dissolved Solid	IS:3025(Part-16)	380.0	mg/l	500	2000
12.	Alkalinity (as Ca CO <sub>3</sub> )	IS: 3025 (P- 23)	182.0	mg/l	200	600
13.	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P- 24)	27.60	mg/l	200	400

### MICROBIOLOGICAL REQUIREMENT

### RESULTS

S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012/ RA 2023
1.	<i>Escherichia coli</i>	IS-15185	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-15185	Absent	Absent/100ml

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed of after two weeks from the date of issue of test report, unless until specified by the customer.

Ajay  
CHECKED BY



AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

Branch Office :

HARIDWAR | DEHRADUN | PUNE

E-mail : noida.laboratory@gmail.com | Website : www.noidalabs.com



Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Surface Water	SW-160924-010	21/09/2024

Issued to: M/s Baba Farid-Ud-Din Bagdadi Minerals

Location: Barias Kothiyar Gypsum Mine Village- Barias, Kothiyar, District- Doda,  
Jammu & Kashmir (U/T) Area: 15.18 ha

### SAMPLING & ANALYSIS DATA

Sample Drawn By	: NTL Representative
Sample Received Date	: 16/09/2024
Sample Quantity	: 2.0 Lt.
Analysis Duration	: 16/09/2024 to 21/09/2024
Sampling Location	: Local stream-sample collected from upstream and downstream
Sample Description	: Surface Water

### TEST RESULTS

S. No.	Parameter	Test Method	Results		Unit
			Upstream	Downstream	
1.	pH value	IS-3025(Part-11)	7.35	7.48	-
2.	Chemical Oxygen Demand (as O <sub>2</sub> )	IS:3025(Part-58)	21.0	23.0	mg/l
3.	Dissolve Oxygen	IS: 3025 (Part - 38)	7.4	7.2	mg/l
4.	Biological Oxygen Demand (as O <sub>2</sub> ) 3days at 27 °C	IS:3025(Part-44)	3.5	3.8	mg/l
5.	Total Suspended Solid (TSS)	IS:3025(Part-17)	7.2	7.6	mg/l

\*Remark – BDL- Below Detection Limit

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

Checked by  
CHECKED BY



AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

Branch Office :

HARIDWAR | DEHRADUN | PUNE

E-mail : noida.laboratory@gmail.com | Website : www.noidalabs.com



Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-160924-04	21/09/2024

Issued to: M/s Baba Farid-Ud-Din Bagdadi Minerals

Location: Barias Kothiyar Gypsum Mine Village- Barias, Kothiyar, District- Doda,  
Jammu & Kashmir (U/T) Area: 15.18 ha

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 14/09/2024  
 Sample Drawn By : Laboratory  
 Sample Location : in village- Barias  
 Sample Received On : 16/09/2024  
 Sample description : Ambient Noise  
 Sampling Time : 24hrs

### TEST RESULT

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	54.6	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	38.8	dB(A)	Residential Area	55	45
				Silence Zone	50	40

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed of after two weeks from the date of issue of test report, unless until specified by the customer.

Ajaji  
CHECKED BY



AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

Branch Office :

HARIDWAR | DEHRADUN | PUNE

E-mail : noida.laboratory@gmail.com | Website : www.noidalabs.com



Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-160924-05	21/09/2024

Issued to: M/s Baba Farid-Ud-Din Bagdadi Minerals

Location: Barias Kothiyar Gypsum Mine Village- Barias, Kothiyar, District- Doda,  
Jammu & Kashmir (U/T) Area: 15.18 ha

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 14/09/2024  
 Sample Drawn By : Laboratory  
 Sample Location : in village- Kotahri  
 Sample Received On : 16/09/2024  
 Sample description : Ambient Noise  
 Sampling Time : 24hrs

### TEST RESULT

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	52.8	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	36.5	dB(A)	Residential Area	55	45
				Silence Zone	50	40

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed of after two weeks from the date of issue of test report, unless until specified by the customer.

Ajajai  
CHECKED BY



AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

Branch Office :

HARIDWAR | DEHRADUN | PUNE

E-mail : noida.laboratory@gmail.com | Website : www.noidalabs.com



Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)  
MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Soil	SQ-160924-08	21/09/2024

Issued to: M/s Baba Farid-Ud-Din Bagdadi Minerals

Location: Barias Kothiyar Gypsum Mine Village- Barias, Kothiyar, District- Doda,  
Jammu & Kashmir (U/T) Area: 15.18 ha

### Sampling & Analysis Data

Sample Received On : 16/09/2024  
Sample Drawn By : Laboratory (NTL)  
Sample Description : Near Project Site  
Analysis Duration : 16/09/2024 to 21/09/2024

Sl.No.	Parameters	Results	Test Method	
1.	pH	7.41	IS:2720(Part-26)	
2.	Conductivity ( $\mu$ mhos/cm)	272.00	IS:2720(Part-21)	
3.	Sodium (as Na)(mg/kg)	80.95	STP/SOIL	
4.	Water holding capacity (%)	32.48	STP/SOIL	
5.	Potassium (as K) (mg/kg)	143.94	STP/SOIL	
6.	Texture	Sand (% by mass)	68.00	STP/SOIL
		Clay (% by mass)	17.00	STP/SOIL
		Silt (% by mass)	15.00	STP/SOIL
7.	Calcium (as Ca)(mg/kg)	861.00	STP/SOIL	
8.	Magnesium (as Mg) (mg/kg)	410.72	STP/SOIL	
9.	SAR	0.90	STP/SOIL	
10.	CEC (meq/100gm)	2.73	STP/SOIL	
11.	Available Phosphorus (as P),(mg/kg)	12.91	STP/SOIL	
12.	Organic carbon (%)	0.64	STP/SOIL	
13.	Porosity (% by mass)	48.81	STP/SOIL	
14.	Permeability (cm/hr)	1.78	STP/SOIL	
15.	Bulk Density ( $\text{kg}/\text{cm}^3$ )	1.35	STP/SOIL	
16.	TKN%	0.026	STP/SOIL	

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. Responsibility of the Laboratory is limited to the invoiced amount only.
3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer

Checked BY



AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

Branch Office :

HARIDWAR | DEHRADUN | PUNE

E-mail : noida.laboratory@gmail.com | Website : www.noidalabs.com



Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Soil	SQ-160924-09	21/09/2024

Issued to: M/s Baba Farid-Ud-Din Bagdadi Minerals

Location: Barias Kothiyar Gypsum Mine Village- Barias, Kothiyar, District- Doda,  
Jammu & Kashmir (U/T) Area: 15.18 ha

### Sampling & Analysis Data

Sample Received On : 16/09/2024  
Sample Drawn By : Laboratory (NTL)  
Sample Description : Project Site  
Analysis Duration : 16/09/2024 to 21/09/2024

Sl.No.	Parameters	Results	Test Method
1.	pH	7.30	IS:2720(Part-26)
2.	Conductivity ( $\mu$ mhos/cm)	278.00	IS:2720(Part-21)
3.	Sodium (as Na)(mg/kg)	65.51	STP/SOIL
4.	Water holding capacity (%)	32.96	STP/SOIL
5.	Potassium (as K) (mg/kg)	248.50	STP/SOIL
6.	Texture	Sand (% by mass)	65.00
		Clay (% by mass)	18.00
		Silt (% by mass)	17.00
7.	Calcium (as Ca)(mg/kg)	862.00	STP/SOIL
8.	Magnesium (as Mg) (mg/kg)	410.58	STP/SOIL
9.	SAR	0.90	STP/SOIL
10.	CEC (meq/100gm)	2.48	STP/SOIL
11.	Available Phosphorus (as P),(mg/kg)	12.85	STP/SOIL
12.	Organic carbon (%)	0.60	STP/SOIL
13.	Porosity (% by mass)	28.50	STP/SOIL
14.	Permeability (cm/hr)	1.73	STP/SOIL
15.	Bulk Density ( $\text{kg}/\text{cm}^3$ )	1.32	STP/SOIL
16.	TKN%	0.048	STP/SOIL

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. Responsibility of the Laboratory is limited to the invoiced amount only.
3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer

Checked by  
CHECKED BY



AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

Branch Office :

HARIDWAR | DEHRADUN | PUNE

E-mail : noida.laboratory@gmail.com | Website : www.noidalabs.com