

Subject: Mining of Stone in the Mine of "Atela Kalan" with proposed production capacity of 6.0 million TPA of Stone (ROM) by M"/s. MSK (JV), located at village - Atela kalan, Tehsil - Charkhi Dadri, District- Bhiwani, Haryana (54ha)- **Compliance of Environmental Clearance Regarding.**

Reference: Online Application IA/HR/MIN/22915/2014

PART A – SPECIFIC CONDITIONS

A. SPECIFIC CONDITIONS		
SI. No.	Conditions	Reply
I.	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Haryana and any other Court of Law, if any, as may be applicable to this project.	Agreed.
II.	Environmental clearance is subject to obtaining clearance, if any, under the Wildlife (Protection) Act, 1972 from the Competent Authority, as may be applicable to this project.	Clearance from competent authority under wildlife protection act is not applicable on this project.
III.	The environmental clearance is valid for 12 years as the life of mine is 12 years.	Noted.
IV.	No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.	No forest area is involved in this mining project
V.	The project proponent shall obtain Consent to Operate, from the State Pollution Control Board, Haryana and effectively implement all the conditions stipulated therein.	Agreed. Consent to Operate has been granted by HSPCB vide letter no. 313100420BHICTO7791125 dated 01.08.2020 , which is valid up to 30.09.2025. (Annexure - 1)
VI.	Proponent shall appoint an Occupational Health Specialist for regular and periodical medical examination of the workers engaged in the project and maintain records accordingly; also, Occupational health checkups for workers having some ailments like BP, diabetes, habitual smoking etc. shall be undertaken once in six months and necessary remedial /preventive measures taken accordingly. The recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented.	Agreed. Dr. S.C. Gupta has been appointed for periodical medical examination of the workers engaged in the project and maintain records accordingly. He has also conducted occupational health checkups for workers having some ailments like BP, diabetes, habitual smoking etc. and will be undertaken once in six months and necessary remedial /preventive measures will be taken accordingly. Appointment letter is attached as Annexure-11. Health Records of the workers are attached as Annexure-11.
VII.	An independent study has been organized during peak activity, to understand how the actual compare with the carrying capacities and further decisions taken to maintain sustainability of this essential stone extraction and supply activity. Project proponent shall ensure that the road may not be damaged due to transportation of stone.	Agreed. Project proponent ensures that no roads will be damaged due to transportation of stone. Roads are well maintained by the Project Proponent. Photographs of the Developed roads are Attached as Annexure-6.
VIII.	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The PP shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the public hearing held on 10.10.2014.	Issues raised during the public hearing have been duly addressed.

IX.	The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of Ministry of Environment, Forests & Climate Change and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological studies shall be carried out. The report on six monthly basis on changes in ground water level and quality shall be submitted to the Regional Office of the Ministry.	Agreed. The lease area consisting of a hill area and mining is carried out from top to bottom side from mRL is 401 and lowest bottom mRL is 239 near BP-3,4 boundary pillars .There is a difference of 162 meters .The water table is observed 50 meters below the general ground level . In this situation water table will not be encountered in the area. However there are chances of collecting rain water in the depression near MSK office The ground water level will encounter at a depth of 189 mRL. During the scheme period working will be confined to hill and general ground levels part i.e Above 200 mRL so, water level will not be intersected.
X.	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' Certificate for all the vehicles from authorized pollution testing centres.	Agreed and Complied. PUC certificate for all the vehicles has been obtained from authorized centres. During transportation all the haulage roads including the main ramp from the mines pit will be kept wide, levelled, compacted and properly maintained and watered regularly during the operation to prevent generation of dust due to movement of trucks dumpers and other vehicles. PUC Certificates are attached as Annexure-14.
XI.	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Ground Water Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.	Noted & Agreed. As per our EMP (Environment Management Plan), we are developing reservoir for rain water harvesting & recharge ground water table. This site has been selected after surveying, for better infiltration of rain water. We are developing the reservoir in phase wise manner. Photographs of Rain Water Harvesting Pits are attached as Annexure-7.
XII.	Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured	Agreed and Complied. Water Sprinkling is being regularly done at the haul road. Photographs of Water Sprinkling are attached as Annexure-8.
XIII.	A comprehensive study for slope stabilization of mine benches and OB dumps shall be undertaken within one year. The clearance is only for the stone and not for any associated mineral.	Slopes and benches are being maintained as per the mining plan.
XIV.	Washing of all transport vehicles should be done inside the mining lease.	Agreed. Washing of all transport vehicles is being done inside the mining lease.
XV.	Native plant species of Amla, Tamarind, Neem, Arjun, Bauhinia and others as suggested by villagers/specialist may be planted.	Agreed. Plantation Details and Photographs are attached as Annexure-9.
XVI.	Implementation of Haryana Government Rehabilitation And Resettlement of Land Owners Policy As per applicability in the area.	Noted.
XVII.	Implementation of Environment Management Policy of the Company w.r.t. Judicious use of Mineral Resources for growth & development	Agreed.

	synchronizing mining & environment with prosperity.	
XVIII.	The project proponent shall also take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted in the study area.	Agreed. Mining is being done as per Approved mining plan. Copy of the same is enclosed as Annexure- 3 .
XIX.	The illumination and sound at night at project site disturb the villages in respect of both human and animals population. Consequent sleeping disorders and stress may effect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise level at night. Project proponent must ensure that the biological clock of villages is not disturbed; by orienting the floodlights/masks away from the villagers and keeping the noise level well within the prescribed limits for day light/night hours.	Agreed.
XX.	Where ever blasting is undertaken as part of mining activity, the project proponent shall carry out vibration studies well before approaching any such habitats or other buildings, to evaluate the zone of influence and impact of blasting on the neighbourhood. Within 500 meters of such sites vulnerable to blasting vibration, avoidance of use of explosive and adoption of alternative means of mineral extraction, such as ripper/dozer combination/rock breakers/ surface minor etc. Should be seriously considered and practiced wherever practicable. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior permission from the competent authority.	Agreed. Following precaution will be taken during the blasting: <ul style="list-style-type: none"> ➤ Drilling with sharp edges bits will minimize generation of noise. ➤ Control blasting is being done with proper charge of explosive to minimize noise during blasting. ➤ Regular Noise monitoring is being conducted at the project site.(Lab report attached as Annexure-12) ➤ Dense plantation in mining area is also reducing the propagation of noise. ➤ Rock breakers are being used instead of secondary blasting. ➤ Blasting is proposed to reduce the vibrations and check noise pollution. An earplug is being provided to the workers. Blasting and Drilling permission/ certificates are attached as Annexure-4.
XXI.	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers.	Agreed. Regularly water sprinkling is being done on main haulage roads and loading and unloading areas with water tankers fitted sprinklers. Photographs of Water Sprinkling are attached as Annexure-8.
XXII.	Transportation of the minerals by road passing through the villages shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening	Agreed.

	and strengthening of existing public road network in case the same is proposed to be used for the project. No road movement should be allowed on the existing village road network without appropriately increasing the carrying capacity of such roads.	
XXIII.	Likewise, alteration or re-routing of foot paths, pagdandies, cart roads, and village infrastructure/public utilities or roads (for purpose of land acquisition for mining) shall be avoided to the extents possible and in case such acquisition is inevitable, alternative arrangements shall be made first and only the area acquired. In these types of cases, inspection reports by site visit by experts may be insisted upon which should be done through reputed Institute.	Agreed.
XXIV.	CSR activities by Companies including the Mining Establishments has become mandatory up to 2% of their financial Turn-over, Socio Economic Development of the neighborhood Habitats could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment & Forest and its Regional Office located at on six monthly basis.	Agreed. CSR activities are done under this project for fulfilling the requirements of villagers & Gram Panchayat. Details and Expenses of CSR are gives as Annexure-5.
XXV.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Agreed. Housing arrangement has been made for the labour near the site with all necessary amenities. Whereas rest shelter, first aid facility, crèche, soak pit and other basic sanitary facilities have been developed. All the temporary structure will be removed after the completion of the project.
XXVI.	A final mine closure plan along with details of corpus fund shall be submitted to the Ministry of Environment, Forest & Climate Change 5 years in advance of final mine closure for approval.	Agreed.

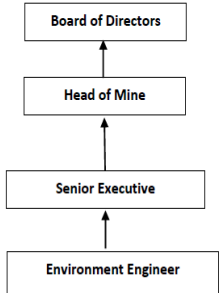
B. GENERAL CONDITIONS

SI. No.	Conditions	Response
I.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change	Agreed.
II.	No change in the calendar plan including excavation, quantum of mineral and waste shall be made.	Agreed. Work is being conducted as per the proposed mine scheme approved by DGM Haryana Vide letter no. DMG/H1/Atelakalan/MP/4154 dated -13.09.2014.
III.	The project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.	Agreed.
IV.	Regular monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.	Monitoring of groundwater from existing dug wells and piezometers are being monitored regularly as per condition. In this reporting period, monitoring was done in Month of November (Post monsoon) and month of January (Winter). The monitoring reports of water quality are enclosed as Annexure-12).
V. W	Monitoring of Ambient air quality to be carried out based on the 2009 Notification, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.	Agreed. Lab report of ambient air quality is attached as Annexure- 12.
VI.	The upliftment of scheduled caste/scheduled tribe population, specific programmes have been taken in to consideration specially with respect to education, health care, livelihood generation, infrastructure development & Promotion of sports & culture for SC/ST population and that these will be intensified in future.	Agreed.
VII.	The top-soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not be exceed 8m and the width 20m and overall slope of the dumps shall be maintained 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface runoff. In critical areas, use of geo textiles shall be	Agreed. Top soil is being used for reclamation and plantation purpose.

	<p>undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest & Climate Change and its Regional Office located at Chandigarh on Six monthly basis.</p>	
VIII.	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and over burden dumps to prevent run off of water and flow of sediments directly in to the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drain shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dump to prevent run off of water and flow of sediments directly into the river and other water bodies and sumps capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pit shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>Agreed.</p> <p>Catch drains of appropriate size are constructed to arrest flow of silt and sediment. The collected water is being utilizing for watering the mine area, roads, green belt development etc. The drains are maintained regularly Mining Activity is being done as per approved mining plan.</p>
IX.	<p>Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. By planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within next five years.</p>	<p>Agreed.</p> <p>The Plantation is being done as per approved mining plan and with the consultation of DFO/Agriculture Department.</p>
X.	<p>Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check runoff and siltation shall be based on the rain fall data.</p>	<p>Noted.</p>
XI.	<p>Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high</p>	<p>Agreed and complied. Lab reports are attached as Annexure-12.</p>

	levels of PM10 & PM2.5 such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	
XII.	Regularly 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. Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the ministry of Environment, Forest & Climate Change, its Regional Office Chandigarh, Central Ground water authority Regional Director, Ground Central Water Board, State Pollution Control Board and Central Pollution Control Board.	Agreed. Lab reports enclosed as Annexure-12 .
XIII.	Regularly Monitoring of Ground Water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year : Pre-monsoon (April-May), Monsoon (August), Post monsoon (November) and winter (January) and the data collected may be sent regularly to the ministry of Environment, Forest & Climate Change, its Regional Office Chandigarh, Central Ground water authority Regional Director, Ground Central Water Board, State Pollution Control Board and Central Pollution Control Board	Regular monitoring of ground water level and ground water quality has been carried out in and around the mine lease. Lab reports are attached as Annexur-12 .
XIV.	Blasting operation shall be carried out only during the day time, control blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented. Drills shall either be operated with dust extractors or equipped with water injection system.	Controlled blasting will be conducted during day time only and as per the approved mining scheme as well as DGMS guidelines. The mitigation measures to reduce the impact due to blasting are as follows: <ul style="list-style-type: none"> ➤ Controlled and Cushion blasting to reduce waste generation, ensuring the burden is one-third to one-half of the depth of hole ➤ Proper warning signals are being used. ➤ The number of rows in a blast is not more than four so that fly rock generation and ground vibration is reduced. ➤ Maximum permissible charge per delay is decided on the basis of the distance of structure to be protected from the blasting. ➤ The dampers or springs will be provided on

		<p>the vehicles which are used for mining activities to reduce vibration</p> <ul style="list-style-type: none"> ➤ Regular Noise monitoring is being conducted regularly at the project site. (Lab report attached as Annexure-12).
XV.	<p>The critical parameters such as PM10 (size less than 10 micro meter), PM2.5 (size less than 2.5 micro meter), NOx in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored, (TDS, DO, pH & TSS). The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain. The circular no. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment, Forest & Climate Change, which is available on the website of the ministry www.envfor.nic.in shall also be referred in this regard for its compliance.</p>	<p>Agreed. Lab reports enclosed as Annexure- 12.</p>
XVI.	<p>Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for PM10, PM2.5, SO2 & NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. Data on ambient air quality should be regularly submitted to the ministry including its Regional Office located at Chandigarh and the State pollution Control Board/ Central Pollution Control Board once in six months.</p>	<p>Agreed. Regular monitoring of ambient air quality is being carried out in the core zone as well as in the buffer zone for PM10, PM2.5, SO2 & NOx. Lab reports are attached as Annexure-12.</p>
XVII.	<p>Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.</p>	<p>Agreed.</p>
XVIII.	<p>Measures should be taken for control of noise level below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc should be provided with ear plugs/muffs</p>	<p>Following mitigation measure will be taken to reduce the noise impact in project site.</p> <ul style="list-style-type: none"> ➤ All scientific blasting is proposed to reduce the vibrations and check noise pollution. An earplug is being provided to the workers. ➤ All the machineries including transport vehicles are properly maintained to minimize

		<p>generation of noise.</p> <ul style="list-style-type: none"> ➤ Drilling with sharp edges bits is provided to reduce generation of noise. ➤ Noise source will be isolated. <p>Dense plantation in mining area is also reducing propagation of noise outside the core zone. (Noise report are attached as Annexure- 12.)</p>
XIX.	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluent.	Not Applicable.
XX.	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and healthy aspects.	<p>Following mitigation measures has been initiated for the workers who worked at critically dusty area.</p> <ul style="list-style-type: none"> ➤ Sprinkled with water at regular intervals ➤ Operators and other persons near loading area are using the dust mask. ➤ Scientific Mining has been proposed to minimize the effect of air pollution. ➤ Wet drilling is being practiced. ➤ Also allocated 08 lakh per annum for organizing health camps training purposes.
XXI.	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	<p>Agreed.</p> <ul style="list-style-type: none"> ➤ Dust mask is being provided to the workers working in the dust prone areas as additional personal protective equipment's. ➤ Workers are informed and kept aware about occupational health hazards due to such activities and preventive measures. ➤ Workers health related problem is being properly addressed.
XXII.	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior Executive, who will report directly to the head of the organization.	<p>Agreed.</p> <p>The Organizational set-up of environmental management cell is given below.</p>  <pre> graph BT A[Board of Directors] --> B[Head of Mine] B --> C[Senior Executive] C --> D[Environment Engineer] </pre>
XXIII.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the ministry and its Regional Office located at Chandigarh.	<p>Agreed & Complied.</p> <p>Year wise expenditure of Environment protection Measures is being submitted to the HSPCB and the Regional office of MoEF located at Chandigarh. EMP Details are attached as Annexure- 13.</p>

XXIV.	The project authorities should inform to the Regional Office located at Chandigarh regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Agreed & Complied.
XXV.	The regional office of this Ministry located at Chandigarh shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Agreed & Noted.
XXVI.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest & Climate Change, its Regional Office, Chandigarh, Central Pollution Control Board and State Pollution Control Board.	Six monthly compliance reports with monitoring reports is being submitted to the northern regional office of MoEF&CC, HSPCB and SEIAA Haryana. Submission receipt of last compliance report is attached as Annexure- 10 .
XXVII.	A copy of clearance letter will be marked to concerned panchayat/ local NGO, if any, from whom suggestion/ representation has been received while processing the proposal.	Noted.
XXVIII.	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/ Tehsildar's Office for 30 days.	Agreed & Noted.
XXIX.	The Project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within the 7 days of the issue of the clearance and a copy of the clearance letter is available with the state pollution Control Board and also at the website of the Ministry of Environment, Forest & Climate change at http://enfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located Chandigarh.	Complied.