# Status of Compliance to Conditions Stipulated in Environmental Clearance granted by MoEFCC Vide order no. J-11015/449/2012-IA.II (M) dated 02.09.2015 for 2.32 MTPA of Kuteshwar Limestone Mines (Right Bank Lease)

(Period: Upto Sept'2018)



#### STEEL AUTHORITY OF INDIA LIMITED

RAW MATERIALS DIVISION KUTESHWAR LIMESTONE MINES P.O. – BARHI, PIN :483770 DIST. : KATNI

MADHYA PRADESH

# Status of Compliance to Conditions Stipulated in Environmental Clearance (Vide order no. J-11015/449/2012-IA.II (M), dt.02.09.2015) of Kuteshwar Limestone Mines (Right Bank Lease), RMD, SAIL (Period: upto SEPTEMBER, 2018)

#### A. Specific Conditions

Condition Stipulated	Compliance Status as on Sept ,2018
Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Madhya Pradesh and any other Court of Law, if any, as may be applicable to this project.	Noted and agreed.
Environmental clearance is subject to obtaining clearance, if any, under the Wildlife (Protection) Act, 1972 from the Competent Authority as applicable to this project.	No notified National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve are located within 10 kms from the Mining Lease boundary. Hence the it is not applicable to this mining project.
No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.	No forest area involved in the project.
The Project Proponent shall obtain Consent to Operate from the State Pollution Control Board, Madhya Pradesh and effectively implement all the conditions stipulated therein.	granted by MPPCB by vide CTE-45165 dated
Occupational Health Specialist for Regular and Periodical medical checkup once in six months and necessary medical care/preventive measures undertaken accordingly Recommendations of National Institute for Labour for ensuring good occupational	occupational health specialist. Regular & periodical health check-ups are being done covering all the workers.  USG machine, ECG machine, Dental Chair, Pathology Audiometer & Spirometer are available at OHC.  Necessary medical care and preventive measures.
	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Madhya Pradesh and any other Court of Law, if any, as may be applicable to this project.  Environmental clearance is subject to obtaining clearance, if any, under the Wildlife (Protection) Act, 1972 from the Competent Authority as applicable to this project.  No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.  The Project Proponent shall obtain Consent to Operate from the State Pollution Control Board, Madhya Pradesh and effectively implement all the conditions stipulated therein.  Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical checkup once in six months and necessary medical care/preventive measures undertaken accordingly Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers should also be

Cond. No.	Condition Stipulated	Compliance Status as on Sept ,2018
(vi)	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.	Action plan with time frame and budgetary provision has been prepared to address the issues raised during the Public Hearing. The same is being implemented.
(vii)	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC 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.	Water sprinkling on haul roads is being done by deploying 2 nos. of mobile water sprinklers. Further, procurement of 28 KL high pressure water sprinkler is under process.  Pollution checks of all transportation vehicles being done regularly. Vehicles with PUC, no overloading are being ensured.
(viii)	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area is consultation with Central Ground Water Board	consultation with CGWB, Bhopal with rainwater harvesting of about 45,000 KL / annum. The plan involving the following:  Roof water harvesting from buildings & offices – 50,000 sqm through Collection sumps with DCB's – 10 nos.  Rain water Harvesting from Run off water from Roads & Paved areas – 143500 sqm. Through Percolation Ponds with recharge wells.  Rain water harvesting from Green Belt & Open area through 100 Mini Percolation Pits.
(ix)	Use of effective sprinkler system to supprefugitive dust on haul roads and other transport roads shall be ensured; and Washing of transport vehicle should be done inside the mining lease.	with pressured sprinkler planned for purchase alon with procurement of HEMM's for the increase capacity. The washing of all transport vehicles being done inside the mining lease.
(x)	Project Proponent shall ensure that the should not be cross traffic from Left Bank Leto Right Bank Lease or Vice Versa.	There is no question of cross- traffic for Left bank to ase Right Bank as per approved mining plan for Lebank lease, as the material will be manually sized

Sept ,2018
Railway Siding at Khanna
the leasehold area. As per is no Schedule - 1 & in and around the mining
vibrations, NONEL is being
round vibration level (PPV). Rock Breakers are being blasting. Comprehensive plan has been prepared fo Mines. The project will be a project with a project will be a project will be a project will be a project will be a project with a projec
y has been done. PPVs are w /sec. ograph is under process.

Cond.	Condition Stipulated	Compliance Status as on Sept ,2018
	vulnerable to blasting vibrations, avoidance of use of explosives and adaptation of alternative means of mineral extraction, such as ripper/dozer combination/ rock breakers/surface miners 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.	Mining
(xiv)	Mining shall be carried out as per the provisions outlined in mining plan approved by Indian Bureau of Mines (IBM) as well as by abiding to the guidelines of Directorate General of Mines Safety (DGMS).	
(xv)	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. Crusher and material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt- conveyors should be fully covered to avoid air borne dust.	tanker with pressured sprinkler planned for purchase.  Installation of permanent water near Crushing & Screening Plant has been completed, Dry-fog dus suppression system and closed belt conveyors hav been envisaged for the Crushing & Screening Plant.
(xvi)	The Project Proponent shall ensure that the productivity of agricultural crops is not affected due to mining operations. Crop Liability Insurance Policy has to be taken by the Project Proponent as a precaution to compensate for any crop loss. The impact zone shall be 5 k from the boundary of mine lease area for surinsurance policy.	is being developed to arrest the dust from the mine and ensured no adverse affect on agriculture field. Further, crop liability insurance policy shall be explored. The proposal for green belt development has been prepared.
(xvii)	The illumination and sound at night at project site, disturb the villages in respect of both human and animal population. Consequently, sleeping disorders and stress may affect to health in the villages located close to min operations. Habitations have a right darkness and minimal noise levels at night	statutory requirements. Necessary care has be taken to keep the lights away from the villages.  Noise levels is being maintained within the limits both day and night times.

ond. lo.	Condition Stipulated	Compliance Status as on Sept ,2018
	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 levels well within the prescribed limits for day light/ night hours.	handaya is baing
(xviii)	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.	Water sprinkling through water tankers is being done to control the haul road dust.  Proposal for permanent water sprinkler is under process for installation on main haul road along approach roads to Crushing & Screening Plants.
(xix)	CSR activities by Companies including the Mining Establishments has become mandatory up to 2% of their financial Turn – over, Socio-Economic Development of the neighbourhood Habitats could be planned and executed by the Project Proponent more systematically based on 'Need based door to door survey' by established Social Institute/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and it Regional Office located at Bhopal on six monthly basis.	major role in the up- liftment of the region. A amount of Rs. 26.46 lakhs has been spent during 2017-18 on CSR activities. In the year 2018-19, R 6.73 Lakh has been spent on CSR till Sept'18.  The details are being submitted to MoEFCC are MPPCB on six monthly basis.  The of 'Need based survey' implementation is und progress.
(xx)	Provision shall be made for the housing of construction labour within the site with a necessary infrastructure and facilities such a fuel for cooking, mobile toilets, mobile STP, say drinking water, medical health care, crèche extractures to be removed after the completion of the project.	from outside, for which housing facilities along w necessary infrastructure are being provided at text.  existing colony of the mines.
(xxi)	A Final Mine Closure Plan along with details Corpus Fund shall be submitted to the Minist of Environment, Forest & Climate Change years in advance of fine mine closure approval.	e 5

#### B. General Conditions

Cond.	Condition Stipulated	Compliance Status as on September,2018
<b>No.</b> (i)	No change in mining technology and scope of working should be made without prior approval of the MoEFCC.	Mining is being done as per the approved Mining Plan/ Scheme of Mining. No change in mining technology and scope of work has been made.
(ii)	No change in the calendar plan including excavation, quantum of limestone and waste should be made.	ROM production from Right Bank Lease shall be maintained below the approved limit of 2.32 MTPA.  ROM Production during 2018-19(till Sept'18): 0.41 MT
(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.	Limestone Mine vide No. 21-4 (167)/NCR/CGWA/2014-689, dated 30.04.2015.
(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.	Network 5 nos. of existing Dug Wells located around the mines have been selected for ground water level monitoring. Ground water table levels at the selected wells shall be monitored at regular intervals i.e. 4 times in a year. Action is being taken for installing piezometers by establishing network with the existing dug wells.
(v)	Monitoring of Ambient Air Quality to be carried out based on the 2009 Notification, as amended from time to time by the Central Pollution Contra Board. Water sprinkling should be increased places loading and unloading points & transfapoint to reduce fugitive emissions.	and meteorological conditions of the area Regular ambient air quality monitoring of key parameters to mining industries as per the guidelines of MoEFCC and CPCB is being done.  Water sprinkling is being done at loading and unloading points & transfer point to reduct fugitive emissions.
(vi)	The up liftment of scheduled caste/ scheduled tribe population, specific programmes have be taken in to consideration specially with respect education, health care, livelihood generation	improve the quality of life of SC/ST population

Cond.	Condition Supulation	Compliance Status as on September,2018
No.	infrastructure development & promotion of sports & culture for SC/ST population and that these will be intensified in future.	the CSR activities in the areas of Health &hygiene, Women empowerment, Income generation & livelihood, Education, Sports and cultural activities. These CSR activities are intensified for further increasing quality of life of tribal population.  Spent Rs. 6.73 lakhs during 2018-19 (till Sept'18) under CSR.
(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 overburden(OB) generated during the mining	Top soil is being used concurrently for plantation areas. The OB dumps are being stabilized with shurbs / grasses to control soil erosion and runoff control.  Status of compliance is being informed to
F	operations shall be stacked at earmarked dump site(s) only and it should not be kept active for long period of time. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dump shall be maintained at 45 deg. 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 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 Bhopa on six monthly basis.	MoEFCC and MPPCB on six monthly basis.
(viii)	Catch drains and siltation ponds of appropriate size shall be constructed around the min working, mineral and OB dumps to prevent run of water and flow of sediments directly into the river and other water bodies. The water scollected should be utilized for watering the min area, roads, green belt development etc. The drains shall be regularly desilted particular after monsoon and maintained properly.	working. The drains/ sediment ponds / checked dams are cleaned periodically.  Construction of additional siltation ponds a strategic locations were taken up during 2018 are 19.

ond.	Condition Stipulated	Compliance Status as on September,2018
0.	drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and overburden dumps to prevent run off to water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals.	
(ix)	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 first five years.	
(x)	Dimensions of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	the OB Dumps have been constructed to control
(xi)	Effective safeguard measures such as regula water sprinkling shall be carried out in critical areas prone to air pollution and having high level of PM10 and PM2.5 such as haul road, loading an unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameter	sprinkling is done at crushing and screening plant. 2 nos. of haul road water sprinklers at being used to control dust emission for out transport roads. Procurement of additional 2

Cond. No.	Condition Stipulated	Compliance Status as on September,2018
NO.	conform to the norms prescribed by the Central Pollution Control Board in this regard.	under process. Ambient air in and around the mines is being maintained within the standards.
(xii)	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. 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 Ministry of Environment, Forest & Climate Change, its Regional Office, Bhopal, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	The quality of water at U/s and D/s of Chhoti Mahanadhi River is being done regularly and results are being submitted to both MoEFCC and MPPCB on six monthly basis.
(xiii)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried our four times in a year – pre-monsoon (April-May), monsoon (August), post monsoon (November) and winter (January) and data thus collected may be sent regularly to Ministry of Environment, Forest& Climate Change and its Regional Office, Bhopal, Central Ground Water Authority and Regional Director, Central Ground Water Board.	
(xiv)	The critical parameters such as PM10, PM2.5, 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[(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No.	ambient air and relevant parameters in the effluents are being monitored regularly. The monitored data is being displayed in General Offices. Copy of EC compliance along with environmental quality data is being uploaded to the company website www.sail.co.in.

Cond	Condition Stipulated	Compliance Status as on September,2018
No.	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 <a href="https://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in the regard for its compliance.	itaring stations
(xvi)	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 meteriological data topographical features and environmentally and ecologically sensate targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. Data of ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Bhopal and the State Pollution Control Board / Central Pollution Control Board once is six months.  Fugitive dust emissions from all the source should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	parameters (PM2.5 , PM10, SO2 and NOX) .  Ambient air quality monitoring data is being submitted to MoEF&CC, New Delhi and Regional Office, Katni along with the compliance reports.  Adequate nos. of fugitive dust emission control measures have been provided at the mines. High pressure water jet for dust suppression at the mineral handling plants and water sprinklers at haul roads / transfer points have also been provided. Details of major fugitive dust control measures at various main unit operations are as follows:  Drilling – Wet drilling is being practiced.  Blasting – Controlled blasting by using slurry explosives & NONEL technology is being followed to control the dust generation during
		blasting.  Haulage – Haul roads are regularly sprinkle with water by 2nos. mobile water sprinklers
(xvii	Measures should be taken for control of no levels below 85 dBA in the work environm Workers engaged in operations of HEMM, should be provided with ear plugs/ muffs.	nise Regular maintenances and periodic checks of the HEMM are being carried out to control the HEMM are being carried out to control the work and periodic checks of the p

Cond.	Condition Stipulated	Compliance Status as on September,2018
No.		operations and operator of HEMM are provided with protective ear plug/ ear muffs with helmet.
(xviii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards under GSR 422 (E) dated 19 <sup>th</sup> May,1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	
(xix)	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.	unloading & loading areas, crushing & screening areas. Training on safety and health aspects is being imparted on regular basis. A full fledged Occupational Health Centre is run by the mines for regular health surveillance.
(xx)	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to due and take corrective measures, if needed.	Workmen worth-8
(xxi)	A separate environmental management cell wis suitable qualified personnel should be setunder the control of a Senior- Executive, who we report directly to the Head of the Organization.	An Environment Management Cell (EMC) has been established at the Kuteshwar Limestone Mine to carry out the environmental management activities including implementation and maintenance of Environmental Management System. The EMC is headed by a Dy. General Manager, who directly reports to the General Manager (Mines).
(xxii)	The funds earmarked for environment protection measures should be kept in separaccount and should not be diverted for or purpose. Year wise expenditure should	ther environmental management activities at under mines. The allocated fund is being utilized on

	(i)iidition supulated	Compliance Status as on September, 2018
0.	located at Bhopal.	Sept'18) an amount of Rs. 05.44 Lakh has been spent towards environmental management.
xxiii)	The project authorities should inform to the Regional Office located at Bhopal regarding date of Financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The Kuteshawar Limestone <b>Mine</b> (Right Bank Lease) is operating since 1973. This is a running mine. No specific date of start of land development work can be assigned.
(xxiv)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.	Full co-operation is extended to the officers of the Regional Office, MoEF&CC, Katni/ Jabalpur, by furnishing the requisite data/ information / monitoring reports.
(xxv)	The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional office, Bhopal, Central Pollution Control Board and State Pollution Control Board.	Six monthly compliance reports on the status of implementation of environmental safeguards are being submitted to MoEF&CC, New Delhi, Regional Office – MoEF&CC, Bhopal CPCB, MPPCB.Copy of the compliance report including environmental quality data is being uploaded to the SAIL web site i.e. www.sail.co.on.
(xxvi)	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.	has already been sent to the drain a draw
(xxvii)	State Pollution Control Board should display a copy of the clearance letter	<b>*</b>
(xxviii)	The project authorities should advertise at least in two local newspaper widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter.	e 06.09.2015.

[A. Sharma]

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L. Matili, Maunya Pradesh अनिस्पद रार्म / Anirudh Sharm महाप्रवेचक (124) // General Manager (FLU: सेल, कुटेश्वर लाड्म स्टोन माइन्स SAIL, KUTESHWAR LIME STONE MINE बरही-483770, कटनी (म.प्र.) BARHI-483770, KATNI (M.P.)