

RASHTRIYA ISPAT NIGAM LIMITED
VISAKHAPATNAM STEEL PLANT
MADHARAM DOLOMITE MINE
MADHARAM-507122
Dist. Khammam (A.P)

Date: 11-08-20

Ref.no.MDM/7-56/2020/

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To:
Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (SEZ),
Ist and IInd Floor, Handloom Export Promotion Council,
34, Cathedral Garden Road, Nungambakkam,
Chennai – 34
Tel. No. 044-28222325

Dear Sir,

Sub: Submission of compliance to MoEF (Period of October 19 to March-20) - Reg
Ref: F.No.J.11015/184/2007-IA.II (M), Govt. of India, MoEF dtd 10-12-2009

With reference to the above cited letter, the Ministry of Environment & Forests, New Delhi has granted the Environment Clearance (E.C) to Madharam Dolomite Mine of Visakhapatnam Steel Plant, Madharam for its proposed project expansion.

We furnish here with the compliance report to the MoEF as per the General and Specific conditions stipulated in the Environment Clearance.

Kindly acknowledge and oblige.

Thanking you,

Yours faithfully
For VSP, Madharam Dolomite Mine



(D. Siva Kumar)
GM (Mines)

Encl: As above.

Cop to:

1. MoEF&C, Delhi
2. The Chairman,
Central Pollution Control Board.
3. The Environmental Engineer, RO, KGM

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COMPLIANCE FOR THE ENVIRONMENT CLEARANCE UNDER THE PROVISIONS OF ENVIRONMENTAL IMPACT ASSESSMENT NOTIFICATION, 2006 , ISSUED BY MINISTRY OF ENVIRONMENT AND FORESTS, NEW DELHI , VIDE LETTER DATED DECEMBER 10, 2009.

A. SPECIFIC CONDITIONS: -

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| i. | The environmental clearance is subject to the outcome in the matter of W.P.No.23744/2002 filed in the Hon'ble High Court of A.P. by Shri Gurram Veerabhadram and others. | W.P No.23744/2002 filed by Gurram Veerabhadram and others in the The Hon'ble High Court of Andhra Pradesh has transferred to Hon'ble National Green Tribunal (NGT), Chennai and the court case disposed at NGT Chennai .Copy of case judgment enclosed. |
| ii. | The charge per delay shall not exceed 5mm/second at a distance of 500 m from the mine. | Blast induced ground vibration is being maintained well with in the 5mm/second and records are maintained with help of ground vibration monitor i.e. minimum blaster. |
| iii. | A 50 m barrier as no mining zone on the side(s) of the nallahs/streams flowing in or adjacent the lease (if any) shall be demarcated and the barrier shall be thickly vegetated with native species of trees and shrubs. | No Nallah/stream is flowing with in the lease area or adjacent area. |
| iv | The company shall ensure that no silt originating due to mining activity is transported in the surface water course(if any) flowing in the area. | In Madharam Dolomite Mine, there is no silt generation due to mining activity as all the material excavated size 0 to 80mm is being despatched to Visakhapatnam main plant. |
| v | Shelter belt i.e. Wind Break consisting of adequate trees of plantation around lease facing the human habitation, school, agricultural fields etc. (if any in the vicinity) shall be raised. | Thick green belt developed between the habitat and mining area. |
| Vi | Occupational Health Cell shall be created at the company under the charge of an officer of adequate seniority who is a qualified person in occupational health. | Occupational Health Department is being maintained under aegis of OHSRC by Visakhapatnam Steel Plant, Visakhapatnam. |
| Vii | Personnel exposure monitoring for dust shall be carried out for all workers. | Personnel dust exposure monitor has been procured and monitoring is being carried on regular basis. |
| Viii | Land-use pattern of the nearby villages shall be studied, including common property resources available for conversion into productive land. Action plan for abatement and compensation for damage to agricultural land / common property land (if any) in the nearby villages, due to mining activity shall be submitted to the Ministry within six months. | A copy of Annexure- enclosed. |
| Ix | Need based assessment for the nearby villages shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, | Under the Corporate Social Responsibility scheme, we have organized various programs like tailoring, saree rolling, paper plate making etc. to develop the traditional |

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| | fruit bearing orchards, vocational training etc.can form a part of each programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up their employment and jobs. | skills of villagers and displaced persons and some of the land losers were provided permanent employment in VSP and the rest of land losers also provided employment through land loser's contract society. |
| X | Fugitive dust generation shall be controlled. Fugitive dust emissions shall be regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records submitted to the Ministry. | To avoid the fugitive dust generation /emission, water sprinkling arrangement has been made over the ground stock of material and water sprinkling is being done regularly on the haul roads. In addition to above 80m x 7m size wind breaking barrier has been erected to prevent the fugitive dust generation and emission is being monitored by season wise departmentally. |
| xi | Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted to the Ministry within six months. | 6 no.s of Rain water harvesting pits made with in the mine lease boundary. |
| xii | Monitoring of ground and surface water quality shall be regularly conducted and records maintained and data submitted to the Ministry regularly. Further, monitoring points shall be located between the mine and drainage in the direction of flow of ground water and records maintained. Monitoring for Arsenic in ground water shall be undertaken. | Ground and Surface water studies are being conducted on regular basis at 6 locations throughout side agency i.e. M/Svenviro labs & consultants which is recognized by the MoEF and the reports are being submitted to TSPCB, Hyderabad & Kothagudem and ministry of MoEF. In addition to this, Ground Water study is also being carried out by Ground Water Department, Government of A.P. and suitable measures are being taken as per their report to recharge the water tables. |
| xiii | Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls. | Plantation of native trees and Shrubs are planted at the dump and slopes at North West dump yard of Madharam. |
| xiv | Provision shall be made for the housing the labourers 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 temporary structures to be removed after the completion of the project. | A well planned township has been constructed for employees with facilities like drinking water, medical Health, co-operative society including school also. |
| xv | Trenches/garland drains shall be constructed at foot of dumps and filters installed at regular intervals to arrest slit from being carried to water bodies. Adequate number of Check Dams and Gully Plugs shall be constructed across seasonal/perennial nallahs(if any) flowing through the ML area and silts arrested. De-silting at regular intervals shall be carried out. | Retaining wall has been constructed at the foot of dump and garland drain/check dam, construction work under progress. |

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| Xvi | Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. The company shall engage a full time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programmes for workers on the impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years) shall be conducted followed by follow up action wherever required. | Under the Periodical Medical Examination (PME), various health and safety measures for the employees including identification of work related health hazards, training on malaria eradication, HIV and health effects on exposure to mineral dust etc. is carried out on regular basis every year. The company trained a full time qualified doctor in occupational health. Periodic monitoring for exposure to respirable mineral dust on the workers is being carried out and health records are also maintained. Health Awareness programs are being arranged at our mine by a team of doctors of VSP. Vizag periodically. |
| xvii | Green belt development and selection of plant species shall be as per CPCB guidelines. Herbs and shrubs shall also form a part of afforestation programme besides tree plantations. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the Ministry within six months. | A well afforestation programme has been designed and different species of trees have been planted either side of haul roads, near CSP, Wagon Loading area, township and particularly a thick green belt has been developed in between wagon loading station and western boundary of mine to arrest the falling of dust on the nearby agricultural fields. |
| xviii | Top soil / solid waste shall be stacked properly with proper slope and adequate safeguards and shall be utilized for backfilling (whenever applicable) for reclamation and rehabilitation of mined out areas. Top soil shall be separately stacked for utilization later for reclamation and shall not be stacked along with over burden. | At present here no top soil. |
| xix | Over burden(OB) shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30 m, each stage shall preferably be of 10 m and overall slope of the dump shall not exceed 28 deg. The OB dump shall be backfilled. The OB dumps shall be scientifically vegetated with suitable natural species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of MoEF on six monthly basis. | Overburden is stacked separately and height of dump is maintained 10m. No plantation done as it is an active dump, proper retaining wall has been erected at the foot of dump. |
| xx | Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines. | Slope of benches and pit limit in mine is being done as per the mining scheme approved by Indian Bureau of Mines. |
| xxi | The waste water from the mine shall be treated to conform to the prescribe standards before discharging in to the natural stream. The discharged water from the Tailing Dam (if any) shall be regularly monitored and | Check dam constructed across the stream, where mine water is being discharged and quality conformed to prescribed standards. |

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| | report submitted to the Ministry of MOEF, CPCB and the TSPCB. | |
| xxii | Action plan with respect to suggestions/improvement and recommendations made during public consultation/hearing shall be submitted to the ministry of state govt. within six months. | Action plan with respect to the suggestions / improvements and recommendations made in the Public Hearing are being implemented. |
| xxiii | A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Ministry of Environment and Forests, 5 years in advance of final mine closure for approval. | Recently estimated mine life is more than 30 years, conditions will be implemented as and when required. |
| xxiv | Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of area and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. Transportation of ore shall be done only during day time. The vehicles transporting ores shall be covered with a tarpaulin or other suitable enclosures so that no dust particles / fine matters escape during the course of transportation. No overloading of ores for transportation shall be committed. | Regular emissions for all the equipment in mines is being monitored regularly and over loading of dumpers are being avoided. |
| xxv | The environmental clearance is subject to the condition, if any, stipulated by the IBM on the mining schemes submitted by the project proponent for its approval. | All the stipulation given by IBM in their approval mining scheme/plan are being implemented. |
| xxvi | Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits. | Not applicable. |

B. GENERAL CONDITIONS:

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| i | No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests. | Agreed to the condition. |
| ii | No change in the calendar plan including excavation, quantum of mineral and waste shall be made | Agreed to the condition. |
| iii | Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained. | Regular water spraying is being done on haul roads and ADS installed at all loading/unloading/transfer points to suppress fugitive dust emissions from the all sources. |
| iv | Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, PM 10/PM2.5, SO ₂ , NO _x monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State pollution control board. | Four Ambient Air Quality Monitoring stations are established for quarterly monitoring of fugitive dust emissions. A meteorological station for air and rain fall also established at mines. |
| v | Data on ambient air quality (RPM, PM10/PM2.5, SO ₂ , NO _x) should be regularly submitted to the Ministry including its RO located at Chennai. and the State Pollution Control Board / CPCB once in six | Data on AAQM is regularly being done and submitted to all statutory authorities ie. TSPCB, CPCB from time to time season wise. |

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| | months. The monitored data of criteria pollutants mentioned above shall be regularly uploaded on the company's website and also displayed at project site. | |
| vi | Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM shall be provided with ear plugs / muffs. | All measures have been taken in working zone to control noise levels below 85 dBA in the work environment by proper maintenance and isolation all workers working on HEMM are provided with ear plugs/muffs. |
| vii | Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dt.19.5.1993 and 31.12.1993 or as amended from time to time. Oil and Grease trap shall be installed before discharge of workshop effluents. | Waste water arising from workshop is being collected and treated to conform to the standards prescribed under GSR 422(E) and a oil and grease trap is installed at our Central Repair Shop. |
| viii | Personnel working in dusty areas shall be provided with protection respiratory devices and they shall also be imparted adequate training and information on safety and health aspects. | Safety, Health and Refresher training programmes are being regularly conducted at our Vocational Training Centre to the employees whose nature of work is exposed to dust. |
| ix | Provision shall be made for the housing the labourers 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. | A township with good infrastructural was established for employees with all modern facilities. |
| x | A separate Environmental Management Cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the Organisation. | A separate Environmental Management Cell is constituted (copy enclosed.) |
| xi | The project authorities shall inform to the Regional Office of the Ministry located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | Will be informed to the authority concerned as and when necessary. |
| xii | The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose, year wise expenditure shall be reported to the Ministry and its RO located at Bangalore. | The funds earmarked for environmental protection measures are kept in separate account and is intimated to the ministry of E & F on regular basis. |
| xiii | The project authorities shall inform the RO, Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | No fresh land is acquired or leads to be developed for expansion work of the project. The original project and its land development was done in 1981-82 based on the approval of Board of Director of RINL accorded to its detailed project report submitted and prepared by M/s M.N.Datur &co. Kolkata. |
| xiv | The RO office shall monitor the compliance of the stipulated conditions. The project authorities shall | All requisite data is being submitted to the Regional Office, Chennai, and |

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| | extend full cooperation to the officers of the RO office furnishing the requisite data / information / monitoring reports. | MoEF. |
| xv | The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of MOEF and its RO office, CPCB and State boards. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the RO office, MOEF. | The status of the implementation of the stipulated environmental safeguards will be submitted to the Regional Office, Chennai, and MoEF. |
| xvi | The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project one of which shall be in the vernacular language of the locality / office of municipal corporation / gram panchayat concerned and on the company's web site within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at website of the MOEF. | Advertisement with regard to the Environmental clearance has already been done in two leading Telugu dailies. |
| xvii | 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. The clearance letter shall also be put on the website of the company. | A copy of Environmental Clearance letter has already been submitted to the President, Gram Panchayat, Madharam and a copy also put on the website of the company. |
| xviii | State Pollution Control Board shall display a copy of the clearance letter at the RO, District Industries Centre and Collector office / Tahsilder's office for 30 days. | TSPCB has also displayed a copy at Regional Office, Kothagudem and a copy also submitted to District Industries Centre at Khammam and Tahsildar's Office at Kaprealli. |
| xix | The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1988, as amended subsequently and shall also be put on the website of the company along with the status of compliance of environmental clearance conditions. The same shall be sent to the RO office of MOEF. | The environmental statement in Form-V is being submitted to the TSPCB for each year before 30 th of September and the same is also being submitted to the Regional of Office, MoEF. Chennai. |



(D.siva Kumar)
GM (Mines)