

File No: 86/2024

Government of India

Ministry of Environment, Forest and Climate Change (Issued by the State Environment Impact Assessment Authority(SEIAA), KERALA)



Dated 13/02/2025



To,

Sri. Jismon A. B.

M/s J S Blue Metals LLP

Ambarappillil House, Hostel Junction, Muvattupuzha, Marady, Ernakulam, Kerala - 686661

js.bluemetals@gmail.com

Subject:

Grant of EC under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application for Grant of EC under the provision of the EIA Notification 2006-regarding in respect of Granite Building Stone Quarry Project of M/s. J S Blue Metals LLP submitted to Ministry vide proposal number SIA/KL/MIN/469930/2024 dated 22/04/2024.

2. The particulars of the proposal are as below:

(i) EC Identification No. EC24C0108KL5720617N

(ii) File No. 86/2024
(iii) Clearance Type EC
(iv) Category B2

(v) **Project/Activity Included Schedule No.** 1(a) Mining of minerals

(vii) Name of Project Granite Building Stone Quarry project of M/s. J S

Blue Metals LLP

(viii) Name of Company/Organization M/s J S Blue Metals LLP

(ix) Location of Project (District, State)Ernakulam, Kerala(x) Issuing AuthoritySEIAA, Kerala

(xii) Applicability of General Conditions yes (xiii) Applicability of Specific Conditions yes

- 3. In view of the particulars given in Para above, the project proposal interalia including Form-1 (Part A and B) submitted to the Ministry for an appraisal by the State Environment Impact Assessment Authority (SEIAA), Kerala under the provision of EIA notification 2006 and its subsequent amendments.
- 4. The above-mentioned proposal has been considered by the State Expert Appraisal Committee (SEAC) in its 173th

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meeting held on 4th - 6th of November 2024 and the State Environment Impact Assessment Authority (SEIAA) in its 151th meeting held on 30th - 31st December, 2024. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.

- 5. The brief about project details, the Environmental Management Plan and Corporate Environment Responsibility (CER) to be implemented or followed are annexed to this EC.
- 6. The SEAC, in its 173th meeting, based on information, field inspection report & clarifications provided by the project proponent deliberated the proposal in detail, and recommended for grant of EC for the project life of 2 (Two) Years, subject to stipulation of specific and general conditions as detailed in Annexure (1).
- 7. The SEIAA examined the proposal in its 151th meeting in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the State Expert Appraisal Committee decided to grant EC for instant proposal of M/s J S Blue Metals LLP under the provisions of EIA Notification, 2006 and as amended thereof.
- 8. Environmental Clearance is hereby accorded to M/s. J S Blue Metals LLP, Ambarappillil (H), Muvattupuzha P.O, Ernakula, Kerala, for the Granite Building Stone Quarry project for an area of 0.8595 Ha at Survey No. 1065/1-4 & 1065/3-D in Marady Village, Muvattupuzha Taluk, Ernakulam for the project life of 2 (Two) years from the date of issuance of mine permit, for the quantity reassessed by the Mining and Geology Department as per the specific condition that 'The depth of mining should be limited to 120 above MSL to prevent intersection with ground water table.'
- 9. The Environmental Clearance issued will also be subject to full and effective implementation of all the undertakings given in the Application Form, mitigation measures as assured in the Environment Management Plan, and mining features including the Progressive Mine Closure Plan as submitted with the application. The above undertakings and the conditions and the undertakings of the Mining Plan in (Mining), (Blasting), (Mines Drainage), (Stacking of mineral rejects and disposal of waste), (Environment Management Plan) & (Progressive Mine Closure Plan) as submitted will be deemed to be part of this Proceedings as conditions, as if incorporated herein. Also the General Conditions for projects stipulated for mining, mentioned below will be applicable and have to be strictly adhered to.
- 10. Validity of the Environmental Clearance will be for 2 (Two) Years, subject to the earlier review by SEAC in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.
- 11. Violation of any of the Specific & General Conditions, as applicable to the particular case will entail cancellation of the Environmental Clearance, in addition to legal action under the provisions of the Environment (Protection) Act, 1986. Non-compliance, if any shall be reported to the District Collector, Ernakulam or SEIAA, Kerala.
- 12. The Ministry / SEIAA reserves the right to modify and/or stipulate additional conditions, if found necessary.
- 13. The EC to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
- 14. This issues with the approval of the Competent Authority.

Copy To

MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.(through e-mail: rosz.bng-moefcc@gov.in)

The Secretary, Environment Department, Government of Kerala

The Member Secretary, Kerala State Pollution Control Board, Thiruvananthapuram

The District Collector, Ernakulam

The Director, Mining & Geology, Thiruvananthapuram

The District Geologist, Ernakulam

The Environmental Engineer, KSPCB, Ernakulam

The Tahsildhar, Muvattupuzha Taluk, Ernakulam

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Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Site Specific Conditions

| S. No | EC Conditions |
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| 1.1 | The Project Proponent shall carry out quarrying as per the approved Mining Plan and as per the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby. |
| 1.2 | The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the permit / lease order should be provided to the SEIAA before commencing the mining activity. |
| 1.3 | All the conditions in the NOC of the Irrigation Department are to be scrupulously followed. |
| 1.4 | The depth of mining should be limited to 120m AMSL above MSL to prevent intersection with ground water table and the mineable resources shall be reworked accordingly by the Mining and Geology Department while approving the Scheme of Mining / issuing the lease or permit |
| 1.5 | Since the medium hazard zone for landslide susceptibility is located at a distance of 15m, the Project Proponent should implement adequate provisions for storm water drainage and ensure its proper maintenance. |
| 1.6 | A temporary wall of 5m height should be erected at the boundary where houses are located to avoid disturbance and nuisance to the nearby residents. |
| 1.7 | Development of green belt should be initiated prior to the commencement of mining using indigenous species. The suggested species are Phyllanthus emblica (Nelli), Syzygium cumini (Njaval), Writia tinctoria (Dhanthapala), Ficus bengalensis (Peral), Ficus racemosa (Atti), Bambusa bamboos (Mullumula), Dendrocalamus strictus (Kallan mula), Strychnos nuxvomica (Kanjiram), Terminalia cattappa (Thanni), Schleichera oleosa (Poovam), Artocarpus hirsutus (Ayiniplavu) etc. |
| 1.8 | Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees as proposed. |
| 1.9 | Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR |
| 1.10 | Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road. |
| 1.11 | The haulage road should be provided with sprinkling facility to prevent dust pollution. |
| 1.12 | Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. |

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| S. No | EC Conditions |
|-------|---|
| 1.13 | Garland drain, silt-traps, siltation ponds and outflow channels should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR). |
| 1.14 | Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration. |
| 1.15 | Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR. |
| 1.16 | Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites. |
| 1.17 | The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report. |
| 1.18 | Implementation of CER Plan should be done during the first two years of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan. |
| 1.19 | Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm). |
| 1.20 | Adequate sanitation, waste management and restroom facilities should be provided to the workers. |
| 1.21 | Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power. |
| 1.22 | The Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR. |
| 1.23 | Adequate measures should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority. |
| 1.24 | Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust. |
| 1.25 | In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife. |
| 1.26 | As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self |

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| S. No | EC Conditions |
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| | Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost. |
| 1.27 | As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals. |
| 1.28 | The Project Proponent is directed to install a CCTV camera and take all other essential measures to ensure that mining site is not used by antisocial elements for nefarious antisocial activities which are detrimental for peaceful coexistence in the project region. In case if such complaints are received, the EC given is likely to be cancelled after a police verification. |
| 1.29 | The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986. |

Standard EC Conditions for (Mining of minerals)

1. Statutory Compliance

| S. No | EC Conditions |
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| 1.1 | The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project. |
| 1.2 | The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project. |
| 1.3 | The project proponent shall obtain clearance from the National Board for Wildlife, if applicable. |
| 1.4 | The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area). |
| 1.5 | The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee. A copy of the same shall be included with HYCRs. |
| 1.6 | The project proponent shall obtain the necessary permission from the Central Ground Water Authority, if the project intersects ground water table. |
| 1.7 | Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016. |

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| S. No | EC Conditions |
|-------|--|
| 1.8 | Permission of power supply to be taken from the concerned authority for meeting power demand of the project site. |
| 1.9 | The maximum production or peak production at any given time shall not exceed the limit as prescribed in the approved mining plan/scheme of mining. |
| 1.10 | Project Proponent should obtain all necessary statutory clearances for mining. |
| 1.11 | If EC period is more than 6 months, Half Yearly Compliance Report (HYCR) shall be uploaded in the PARIVESH Portal and also submitted to SEIAA via email. |
| 1.12 | The minimum distance norm from the boundary/periphery of other properties buildings/civil structures as prescribed in KMMC Rules and other statutory rules and orders shall be followed. |

2. Air Quality Monitoring And Preservation

| S. No | EC Conditions |
|-------|---|
| 2.1 | Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres. |
| 2.2 | Applicable labour laws for mining shall be followed. Proper masks and onsite facilities shall be provided to the workers. All safety measures shall be followed while cutting laterite using machines. |
| 2.3 | The Project Proponent shall monitor the air quality during operation and submit ambient air quality monitoring details along with the HYCRs. |
| 2.4 | Major approach roads shall be black topped and properly maintained .The transportation of the material should be done in covered trucks to contain dust emissions. |
| 2.5 | Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM10 and PM2.5. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board or State Pollution Control Board. |
| 2.6 | Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained. |
| 2.7 | Project Proponent should Install Wind breaker/shield arrangement along the boundary where there are houses within 100m radius. |
| 2.8 | Post environmental closure third party monitoring by reputed instituted in air quality, water, land & soil etc shall be carried out and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to IRO, MoEF&CC for compliance. The data used for analysis shall be obtained from continues AQMS, site specific water regime. Also third |

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| S. No | EC Conditions |
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| | party shall analyses the implementation of river diversion, meeting to the requirement of project report. |

3. Water Quality Monitoring And Preservation

| S. No | EC Conditions |
|-------|--|
| 3.1 | The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974, and other applicable standards as amended from time to time by the Central Pollution Control Board or State Pollution Control Board. |
| 3.2 | The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-lA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance. |
| 3.3 | Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/IRO. |
| 3.4 | Water quality monitoring of upstream and downstream portion of river including ponds, lakes, tanks shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office. |
| 3.5 | Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources. |
| 3.6 | The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation. |
| 3.7 | Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps, to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, and for green belt development etc. The drains shall be regularly desilted and maintained properly, particularly after monsoon. |
| 3.8 | Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB or SPCB. |
| 3.9 | The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. |

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| S. No | EC Conditions |
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| 3.10 | Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine. |
| 3.11 | The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS. |
| 3.12 | Domestic water shall be providing to the residents/villages which are coming under the zone of influence of the project due to ground water extraction by installing a RO plant with proper supply line and taps, if there is any shortage of potable water due to the mining activity. |
| 3.13 | The project proponent shall take all precautionary measures to ensure the riverine/ riparian ecosystem in and around the mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation/water resource department in the state government. |

4. Noise And Vibration Monitoring And Prevention

| S. No | EC Conditions |
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| 4.1 | Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored. |
| 4.2 | Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 15 kmph to prevent undue noise from empty trucks. |
| 4.3 | Acoustic enclosures should be provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standard limit indicated by CPCB/KSPCB. |
| 4.4 | Measures should be taken for maintaining noise levels below 85 dBA in the work environment. |
| 4.5 | The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis. |

5. Mining Plan

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| S. No | EC Conditions |
|-------|--|
| 5.1 | Mining shall be carried out as per the approved mining plan (including Mine Closure Plan), suggestions from SEAC, KMMC Rules 2015 and amendments thereby and all other statutory rules and orders. |
| 5.2 | The blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive safety organization (GOI) or any other concerned authorized agency. A licensed person should supervise/ control the blasting operations mining activity should not involve blasting. |
| 5.3 | Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable. |
| 5.4 | The quarrying operation shall be restricted between 7 AM and 5PM. |
| 5.5 | Maximum depth of mining shall be as per the mining plan and / or as per specific direction of SEAC. The maximum depth of mining should not be deeper than the local ground water table. |
| 5.6 | No mining operations should be carried out at places having a slope greater than 45°. |
| 5.7 | As per regulation no. 106(2) of Metalliferous Mines Regulation under Mine Act, the height of any bench shall not exceed five meters and breadth shall not be less than the height. |
| 5.8 | The top soil, if any, shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained at 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated soil shall be used for backfilling as per mine closure plan. |
| 5.9 | All the mining equipment like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations. |
| 5.10 | A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions. |
| 5.11 | The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc) shall be conspicuous and maintained at all times. |
| 5.12 | Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Blasting mats to reduce fly rock blasts to a maximum of 10 PPV should be provided. |

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| S. No | EC Conditions |
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| 5.13 | Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department. |
| 5.14 | Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 m) to be conducted and records kept for inspection. This could also form a part of the compliance reports. |
| 5.15 | The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco-friendly manner. |
| 5.16 | Mine has to be closed as per progressive mine closure plan and final mine closure plan. |

6. Land Reclamation

| S. No EC Conditions | | |
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| 6.1 | Regular monitoring of subsidence movement on the surface over and around the working areas its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surround shall be continued till movement ceases completely. In case of observation of any high rat subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be take avoid loss of life and materials. Cracks should be effectively plugged in with ballast and soil/suitable material. | |
| 6.2 | Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO). | |
| 6.3 | Appropriate fencing all around the burrowed/excavated pit shall be made to prevent any mishap. | |
| 6.4 | Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments. | |
| 6.5 | The project proponent should plant seedlings at least 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures as suggested by SEAC. Suitable avenue trees should be planted along the sides of the approach road and internal roads and open parking areas, if any. Preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be ensured by the project proponent. | |
| 6.6 | The project proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants. | |
| 6.7 | Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine. | |
| 6.8 | Native tree species shall be selected and planted over areas of greenbelt and compensatory afforestation affected by subsidence. | |

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| S. No | EC Conditions | | | |
|-------|--|--|--|--|
| 6.9 | Eco-restoration including the closure of mine as per the progressive closure plan and final clos plan shall be done at the cost of the project proponent. This eco-restoration should follow scient standards available for restoration, full recovery of the original vegetation and improving resilience of different ecosystems. Overburden materials should be managed within the site a used for reclamation of mined pit as per mine closure plan / specific conditions. | | | |
| 6.10 | At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the E.C. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. | | | |

7. Public Hearing And Human Health Issues

| S. No EC Conditions | | |
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| 7.1 | Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored. | |
| 7.2 | The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time. | |
| 7.3 | The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease. | |
| 7.4 | Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines. | |
| 7.5 | Safeguards shall be adopted against health risks on account of breeding of vectors in the waterbodies created due to burrowing/excavation of laterite building stone. | |
| 7.6 | Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed. | |
| 7.7 | Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing. | |
| 7.8 | The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.I1 (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'., if applicable | |
| 7.9 | 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 | |

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| S. No | EC Conditions | |
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| | 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 light/night hours. | |

8. Corporate Environment Responsibility

| S. No | EC Conditions | |
|-------|--|--|
| 8.1 | The company shall have a well laid down environmental policy duly approve by the Board Directors. The environmental policy should prescribe for standard operating procedures to har proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditionand/or shareholders/ stake holders. | |
| 8.2 | The Project Proponent shall implement the EMP and environmental conditions along with CEF from the comments of activity. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office/SEIAF along with the Six Monthly Compliance Report. | |
| 8.3 | Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to environmental stability of the project region. The certificates from the beneficiaries, the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure. | |
| 8.4 | Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out. | |
| 8.5 | Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records. | |

9. Miscellaneous

| S. No | EC Conditions | | |
|-------|---|--|--|
| 9.1 | The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed. | | |
| 9.2 | The project authorities shall inform to the Regional Office of the MoEFCC/SEIAA regarding commencement of activity. | | |
| 9.3 | No further expansion or modifications in the project shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC) or SEIAA, Kerala. | | |
| 9.4 | In the case of any change(s) in the scope of the project, extent, quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which the E.C was issued, the project would require a fresh appraisal by this Authority, for | | |

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| S. No | EC Conditions | | |
|-------|--|--|--|
| | which the proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the approval from the Authority as per the existing norms. | | |
| 9.5 | All the statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly Compliance Report. | | |
| 9.6 | The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which, one shall be in the vernacular language within seven days, and in addition, the EC shall also be displayed on the project proponent's website permanently. | | |
| 9.7 | The proponent shall send a copy of the EC to concerned Grama Panchayat/ District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. | | |
| 9.8 | The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public. | | |
| 9.9 | The project proponent must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government. | | |
| 9.10 | The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, if any, commitment made during Public Hearing, if any and also during their presentation to the State Expert Appraisal Committee. | | |
| 9.11 | The project proponent shall upload the status of compliance with the stipulated environment clearance conditions, including results of monitored data on their website and update the same on a half-yearly basis. The HYCRs shall be uploaded in the PARIVESH Portal to IRO MoEF&CC, Bangalore & SEIAA, Kerala. | | |
| 9.12 | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the PARIVESH portal. | | |
| 9.13 | The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company. | | |
| 9.14 | The Regional Office of the MoEFCC and the SPCB shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office / SPCB or any other officers delegated by the SEIAA, by furnishing the requisite data / information/monitoring reports. | | |
| 9.15 | If Government land is partly or fully used for mining, the area shall be returned at the end of lease period after mine closure with separate demarcation with suitable survey marks. | | |

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| S. No | EC Conditions | |
|-------|---|--|
| 9.16 | Any accident occurring in the mined out area after the lease period due to negligence in carrying or safety measures and non-closure, will lead to suspension of all EC obtained for mining by the project proponent. | |
| 9.17 | In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms. | |
| 9.18 | The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter. | |
| 9.19 | Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986. | |
| 9.20 | The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA. | |
| 9.21 | The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law. | |
| 9.22 | The SEIAA, Kerala reserves the right to stipulate additional conditions if found necessary. The Project Proponent in a time-bound manner shall implement these conditions. | |
| 9.23 | The SEIAA, Kerala may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory. | |
| 9.24 | The Environmental Clearance shall be liable to be cancelled in case of violation of any of the above conditions. | |
| 9.25 | Any appeal against this Environmental 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. | |

e-Payments

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I. PROJECT DETAILS

| Sl. No. | Particulars | Details | |
|---------|-----------------------|--|--|
| 1. | Name & Address of the | Sri. Jismon A.B, | |
| | Project Proponent | Designated Partner, | |
| | | M/s. JS BLUE METALS LLP, | |
| | | Ambarappillil (H), Muvattupuzha P.O, | |
| | | Ernakulam, Kerala-686 661 | |
| 2 | Sy. No. | 1065/1-4 & 1065/3-D | |
| 3 | Village | <mark>M</mark> aradi | |
| 4 | Taluk | Muvattupuzha | |
| 5 | District Ernakulam | | |
| 6 | Location | 09° 57' 03.90" N to 09° 57' 05.61" N | |
| | T | 76° 32' 02.55" E to 76° 32' 00.25" E | |
| 7 | Extent (in Hectare) | 0.8595 | |
| 8 | Project Cost | Rs. 94,00,000/- | |
| 9 | Mineable Reserve | The Mining and Geology Department should reassess the minable reserve by restricting the depth to 120m AMSL to prevent intersection with ground water table. | |
| | Validity of EC | Two (2) years | |

II) EMP DETAILS

| Items | Details | Capital Cost (Rs) | Recurring Cost (Rs) |
|---|---|----------------------|------------------------|
| Environmental Monitoring (Core and Buffer Zone) | Air quality, Water quality, Noise and Ground Water | 3,00,000 | 50,000 |
| Air Pollution Control | Dust collector, Water, sprinkler, Polythene sheet | 3,00,000 | 50,000 |
| | Garland drains, water storage tank, RWHP, Waste Tank, Check Dams, Silt traps | 8,00,000 | 50,000 |
| Water Pollution Control | Drainage to nearest Seasonal Stream (128m) | 3,00,000 | 1 |
| | Culvert near the entrance of the Quarry (7m wide, 5m length) | 5,00,000 | - |
| | Seasonal cleaning of Garland Drain & Siltation Tank | ı | 50,000 |
| Green Belt Development | Saplings, Plant Guard including cost of Landscaping (0.2142 Ha, 800 Saplings) | 2,50,000 | 35,000 |
| Solid Waste Management | Dumping Yard retaining wall, Sewage Treatment | 4,00,000 | 50,000 |

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| Grand total | | 33,60 | ,000 |
|--|---|-----------|----------|
| Sub Total | | 30,60,000 | 3,60,000 |
| Waste oil management | Waste oil to be transferred to oil barrel and then to waste oil collectors | 10,000 | 25,000 |
| Reclamation / Rehabilitation of mined out area | Saplings, Plant Guard including cost of Landscaping (0.1684 Ha, 300 saplings) | 2,00,000 | 50,000 |

3) CER DETAILS

| Activity | | Amount (Rs) | |
|---|----------|-------------|--|
| Ooramana East Govt. L.P.S School, Ramamangalam Panchayath | | | |
| Construction of conference room | 5,70,000 | 6.72.000 | |
| Supply of chairs (15 Nos), Wooden table (2 Nos) | 14,250 | 6,73,000 | |
| Projector with screen | 35,000 | Š | |
| Desktop computer for conference room | 53,750 | (v) | |
| Vitrified tiles for 3 rooms and verandah | 99,000 | | |
| • Painting of Govt. L.P.S School with one coat emulsion paint (Asian/Indigo) after cleaning. Doors and windows are painted with one coat paint with all necessary materials | 3,28,000 | 4,27,000 | |
| Grand Total | 11,0 | 0,000/- | |

^{C-P}ayments

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