

**COMPLIANCE REPORT  
TO  
THE CONDITIONS  
OF**

**ENVIRONMENTAL CLEARANCE ORDER  
EC Identification No: EC23B001KL154968 Dated: 06/10/2023**

**ISSUED BY**

**State Environment Impact Assessment Authority  
(SEIAA), Kerala**

**FOR**

**Granite Building Stone Quarry of M/s K L R Granites**

**AT**

Re-Sy Block No.:20, Re-Sy No.: 47/1-9,  
Malayalappuzha Village, Konni Taluk,  
Pathanamthitta District, Kerala State

**EXTENT 3.8717 HECTARES**

**BY**

**M/s. K L R Granites**

**27/906 Josh Building,  
Kothayikunnu Bypass, Thodupuzha-Post  
Idukki District, Kerala – 685584  
Ph No: +91 9946555658, +91 9447055658**

**(APRIL 2024 – SEPTEMBER 2024)**

### **Summary of Project:**

The State Level Environment Impact Assessment Authority (SEIAA), Kerala had granted Environmental Clearance vide EC Identification No: EC23B001KL154968 Dated: 06/10/2023 for the Granite Building Stone Quarry located in Re-Sy Block No.:20, Re-Sy No.: 47/1-9, Malayalappuzha Village, Konni Taluk, Pathanamthitta District, Kerala State over an extent of 3.8717 Ha.

Environmental monitoring was carried out in the core and buffer zone of the lease area by a NABL accredited laboratory. Ambient Air Quality (AAQ) monitoring, Ambient and Work place Noise level monitoring and Water sample was collected during April to September 2024 to report the monitoring values.

### **Project Site Photographs**



**ADDITIONAL SPECIFIC CONDITIONS**

<b>Sl. No.</b>	<b>CONDITIONS</b>	<b>COMPLIANCE</b>															
1.	The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.	<b>Agreed and in compliance.</b> We have been carrying out the quarrying as per the approved Mining Plan and the Specific Conditions mentioned in the EC. Also, we are carrying out the quarrying in compliance with Kerala Minor Mineral Concession Rules 2015 and amendments thereby. Declaration of Project Proponent is enclosed as <b>Annexure – 1.</b>															
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 lease order should be provided to the SEIAA before commencing the mining activity.	<b>Agreed and in compliance.</b> The Quarry Lease Deed is executed on 04/03/2024 to 03/03/2031 for a period of 7 Years based on Proceedings of the Director of Mining & Geology, Thiruvananthapuram, Kerala vides Pro. No. 734/2023-24/DMG/631/2022-M2 Dated: 29/02/2024. The copies of Proceeding and Lease Deed have been communicated to SEIAA, Kerala. Copies of Proceeding and Lease Deed are enclosed as <b>Annexure – 2.</b>															
3.	The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.	<b>Agreed &amp; noted.</b>															
4.	Ultimate depth is limited to 110 m amsl considering the local groundwater regime. District Geologist, Mining & Geology Department, Pathanamthitta may rework the mineable reserve before issuing lease/permit.	<b>Agreed and in compliance.</b> The Modified Mining Plan was prepared by RQP and the same was approved by Department of Mines and Geology, Pathanamthitta Dated: 29/12/2023 Copy of Approved Modified Mining Plan is enclosed as <b>Annexure – 3.</b> Summary of Estimated Reserve as below – <table border="1" data-bbox="869 1518 1455 1798"> <thead> <tr> <th colspan="3"><b>Reserves in Tonnes</b></th> </tr> <tr> <th></th> <th>Granite Building Stone</th> <th>Topsoil</th> </tr> </thead> <tbody> <tr> <td>Geological Reserves</td> <td>24,13,055.0</td> <td>1,31,344.0</td> </tr> <tr> <td>Mineable Reserves</td> <td>17,13,580.0</td> <td>1,08,588.8</td> </tr> <tr> <td>Blocked Reserves</td> <td>6,81,475.0</td> <td>22,755.2</td> </tr> </tbody> </table>	<b>Reserves in Tonnes</b>				Granite Building Stone	Topsoil	Geological Reserves	24,13,055.0	1,31,344.0	Mineable Reserves	17,13,580.0	1,08,588.8	Blocked Reserves	6,81,475.0	22,755.2
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5.	The banks of the seasonal stream should be protected to ensure adequate drainage of the overland flow. Two or three silt traps should be provided in the drain carrying the overland flow to the seasonal stream.	<b>Agreed and in compliance.</b> As per the recommendations the bank of the seasonal stream is protected by making pitching works and channelizing the drain through settlement traps so to ensure adequate drainage of the overland flow. Photographs of the Protection of Seasonal Stream are enclosed as <b>Annexure – 4.</b>															

6.	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), Schleicheria oleosa (Poovam), Artocarpus hirsutus (Ayiniplavu) etc.	<b>Agreed and in compliance.</b> The greenbelt development is carried out before the start of quarrying activities and is been a progressive activity and as per the list of species suggested. Photographs of the Greenbelt Development are enclosed as <b>Annexure – 5.</b>
7.	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.	<b>Agreed and in compliance.</b> Garland Drain System with settlement traps is provided along the seasonal stream side to ensure no silt is washed away during monsoon season and only clear water is let out through the natural drain. Photographs of the Garland Drain are enclosed as <b>Annexure – 6.</b>
8.	The impact of vibration due to blasting on the houses and other built structures within 500m 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.	<b>Agreed and in compliance.</b> A trial blast session was conducted by Competent Person with number of drill holes count to 10 Nos. and Charge Weight to 19 kgs and monitored the vibration PPV at a distance of 50 m. The result of trial blast triggered at 1.27 mm/s and is well below the safe limit of 8 mm/s prescribed by DGMS in MMR 1961. Result of the Vibration Monitoring is enclosed as <b>Annexure – 7.</b>
9.	Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).	<b>Agreed and in compliance.</b> Garland Drain System with settlement traps is provided along the seasonal stream side to ensure no silt is washed away during monsoon season and only clear water is let out through the natural drain. There is no overflow through the channel and hence periodic desilting photos are not evident. Photographs of the Garland Drain are enclosed as <b>Annexure – 6.</b>
10.	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.	<b>Agreed and in compliance.</b> Water Quality is monitored by NABL Accredited Laboratory and the reports is enclosed as <b>Annexure – 8.</b>
11.	Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR.	<b>Agreed and in compliance.</b> Photographs of the Greenbelt Development are enclosed as <b>Annexure – 5.</b>

12.	Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration	<b>Agreed and will be complied.</b> The overflow water for the siltation pond will be discharged to the nearby natural drain only after adequate filtration.
13.	Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites.	<b>Agreed and in compliance.</b> The topsoil is preserved in the safety barrier and the overburden is dumped by making terrace benching and also construction gabbion wall (retaining wall) at the foot of the dump slope with weep holes to arrest any surface runoff during rainy seasons. Photographs of the OB Dumps are enclosed as <b>Annexure – 9.</b>
14.	CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.	<b>Agreed and in compliance.</b> The CER activities are implemented as agreed and the photographs of the CER Implementation with activity details are enclosed as <b>Annexure – 10.</b>
15.	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 pm).	<b>Agreed and in compliance.</b> The mineral transportation activity is only scheduled during the recommended hours i.e., forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm). The timings are displayed at the Mine Office Premises for Truck Drivers Viewing. Photograph of transportation timing display board is enclosed as <b>Annexure – 11.</b>
16.	Adequate sanitation, waste management, and restroom facilities should be provided to the workers.	<b>Agreed and in compliance.</b> Restrooms for workers are provided with adequate sanitation facility. Photographs of Restroom are enclosed as <b>Annexure – 12.</b>
17.	Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement should be met from the solar power. It should be used for office purposes and premises lighting	<b>Agreed and will be complied.</b> The Solar Panel Installation is under progress over the office roof top for usage of office building purpose and shall be completed by next HYCR.
18.	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.	<b>Agreed and in compliance.</b> The EMC Cell is formed by engaging an EIA Consultant and the MoM of monthly meetings is recorded. EMC MoM of Month Sep 2024 is enclosed as <b>Annexure – 13.</b>
19.	Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.	<b>Agreed and in compliance.</b> Photographs of the Greenbelt Development are enclosed as <b>Annexure – 5.</b>
20.	Adequate measures should be taken to harvest the rainwater as per the guidelines issued by the Central Ground Water Authority.	<b>Agreed and in compliance.</b> We have referred the manuals and guidelines issued by CGWA and maintained the rainwater harvest system in the quarry.

21.	Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.	<p><b>Agreed and in compliance.</b>  We are using used tyers to cover the blast face to prevent fly rocks and wetting the blast face before blasting to suppress dust. Photographs of Blast Face are enclosed as <b>Annexure – 14.</b></p>
22.	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 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.	<p><b>Agreed and in compliance.</b>  The CER activities are implemented as agreed and the photographs of the CER Implementation with activity details are enclosed as <b>Annexure – 10.</b></p>
23.	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.	<p><b>Agreed and in compliance.</b>  Only NONEL is used for blasting activities and a trial blast was conducted to check the vibration values and the result of trial blast triggered at 1.27 mm/s and is well below the safe limit of 8 mm/s prescribed by DGMS in MMR 1961. Result of the Vibration Monitoring is enclosed as <b>Annexure – 7.</b></p>
24.	As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16 <sup>th</sup> 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.	<p><b>Agreed and will be complied.</b>  As the suggested activity is a Mine Closure works. It is hereby undertaken to comply this condition during the End of Life of Mine.</p>
25.	The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986	<p><b>Agreed &amp; noted.</b></p>

**GENERAL CONDITIONS**

Sl. No.	CONDITIONS	COMPLIANCE
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.	<b>Agreed &amp; complied.</b> The affidavit that all the conditions stipulated in the EC shall be scrupulously followed is enclosed as <b>Annexure – 15.</b>
2.	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.	<b>Agreed &amp; complied.</b> Clearances Obtained – 1. Panchayat License 2. Consent to Operate under Air Act 3. Consent to Operate under Water Act 4. Explosive License from PESO 5. 34 (6) Manager Permission from DGMS 6. 106 (2) (b) Permission from DGMS The copies of clearances are enclosed as <b>Annexure – 16.</b>
3.	The project proponent should advertise in newspapers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at <a href="http://www.seiaakerala.in">www.seiaakerala.in</a> . The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.	<b>Agreed &amp; complied.</b> The Newspaper advertisement was given 11 <sup>th</sup> March 2024 and the copies of Newspaper Advertisement in English and Malayalam Languages are enclosed as <b>Annexure – 17.</b>
4.	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. The Environmental Clearance shall also be uploaded on the website of the company.	<b>Agreed &amp; complied.</b> The copy of EC is submitted at Konni Grama Panchayat and then obtained the Panchayath License. Also, the copy of Environmental Clearance is uploaded on the company. Website link: <a href="http://klrgranite.com/">http://klrgranite.com/</a>
5.	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.	<b>Agreed &amp; complied.</b> The lease area is securely fenced as per the recommendations and the photographs of fencing are enclosed as <b>Annexure – 18.</b>

6.	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.	<b>Agreed &amp; complied.</b> The EC Obtained Board is displayed before the Mine Office and the photographs of the Board are enclosed as <b>Annexure – 19.</b>
7.	Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.	<b>Agreed and in compliance.</b> Explosives are stored in magazines approved under the explosive permissions obtained from PESO and also adequate used tyres are used as blasting mats to reduce fly rocks during blasting and the result of trial blast triggered at 1.27 mm/s and is well below the safe limit of 8 mm/s prescribed by DGMS in MMR 1961. Result of the Vibration Monitoring is enclosed as <b>Annexure – 7.</b>
8.	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.	<b>Agreed and complied.</b> Warning alarms through siren system is announced before and after blasting sessions and under the supervision of competent person employed. Photograph of the siren is enclosed as <b>Annexure – 20.</b>
9.	Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.	<b>Agreed and complied.</b> The main access roads to the quarry are cemented and provided wheel wash system to remove out dirt on the tipper tyres and only dry wheel tippers are left out. Also, the security at gate ensures that only tarpaulin covered tippers are allowed to pass the security gate with material loaded. Photographs of the road and covered trucks are enclosed as <b>Annexure – 21.</b>
10.	A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report.	<b>Refer Condition No. 18 of Additional Conditions.</b> <b>Agreed and in compliance.</b> The EMC Cell is formed by engaging an EIA Consultant and the MoM of monthly meetings is recorded. EMC MoM of Month Nov 2024 is enclosed as <b>Annexure – 13.</b>

11.	Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby.	<p><b>Refer Condition No. 1 of Additional Conditions.</b>  <b>Agreed and in compliance.</b>  We have been carrying out the quarrying as per the approved Mining Plan and the Specific Conditions mentioned in the EC.  Also, we are carrying out the quarrying in compliance with Kerala Minor Mineral Concession Rules 2015 and amendments thereby.  Declaration of Project Proponent is enclosed as <b>Annexure – 1.</b></p>
12.	The quarrying operation (blasting) shall be restricted between 7 AM and 5PM	<p><b>Agreed and in compliance.</b>  The quarrying operations (blasting) are limited between 7 am to 5 pm.  Photograph of the blasting time display board is enclosed as <b>Annexure – 22.</b></p>
13.	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	<p><b>Agreed and in compliance.</b>  Part of working pit is used as Rain water harvesting facility.  <b>Agreed and will be complied.</b>  The Solar Panel Installation is under progress over the office roof top for usage of office building purpose and shall be completed by next HYCR.</p>
14.	Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45°.	<p><b>Refer Condition No. 1 of Additional Conditions.</b>  <b>Agreed and in compliance.</b>  We have been carrying out the quarrying as per the approved Mining Plan and the Specific Conditions mentioned in the EC.  Also, we are carrying out the quarrying in compliance with Kerala Minor Mineral Concession Rules 2015 and amendments thereby.  Declaration of Project Proponent is enclosed as <b>Annexure – 1.</b></p>
15.	The height of any bench shall not exceed five meters and breadth shall not be less than the height.	<p><b>Agreed and in compliance.</b>  The height and width of benches are made in compliance with Approved Mining Plan.</p>
16.	The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources are obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.	<p><b>Agreed and in compliance.</b>  There are no perennial or intermittent natural water course and/or water resources passing through the lease area.  <b>Agreed and in compliance.</b>  As per the recommendations the bank of the seasonal stream is protected by making pitching works and channelizing the drain through settlement traps so to ensure adequate drainage of the overland flow.  Photographs of the Protection of Seasonal Stream are enclosed as <b>Annexure – 4.</b></p>

17.	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.	<b>Agreed and in compliance.</b> The minimum distance criteria are provided and maintained as per the EC Order and Approved Mining Plan. Also, MMR 1961, Reg. 106 (2) (b) Operational Permission is obtained from DGMS, Bangalore.
18.	The 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.	<b>Agreed and in compliance.</b> The greenbelt development is carried out before the start of quarrying activities and is been a progressive activity and as per the list of species suggested. Photographs of the Greenbelt Development are enclosed as <b>Annexure – 5</b> .
19.	The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad-leaved plants.	<b>Agreed and in compliance.</b> The vegetation in the buffer is maintained as such and additionally greenbelt development is carried out with native species.
20.	Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This Eco restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions.	<b>Agreed and will be complied.</b> As the suggested activity is a Mine Closure works. It is hereby undertaken to comply this condition during the End of Life of Mine.
21.	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.	<b>Agreed and will be complied.</b> As the suggested activity is a Mine Closure works. It is hereby undertaken to comply this condition during the End of Life of Mine.

22.	Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.	<b>Agreed and in compliance.</b> The Mitigation Measures like wet drilling, PPE (ear plugs, shoes, helmet etc.) to workers, water sprinkling, NONEL Blasting with precautions of used tyres on blast face to avoid fly rocks is carried out to mitigate any environmental impacts. Photographs of Mitigation Measures are enclosed as <b>Annexure – 23.</b>
23.	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.	<b>Agreed and in compliance.</b> A trial blast session was conducted by Competent Person with number of drill holes count to 10 Nos. and Change Weight to 19 kgs and monitored the vibration PPV at a distance of 50 m. The result of trial blast triggered at 1.27 mm/s and is well below the safe limit of 8 mm/s prescribed by DGMS in MMR 1961. Result of the Vibration Monitoring is enclosed as <b>Annexure – 7.</b>
24.	Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.	<b>Agreed and in compliance.</b> The truck speed is limited below 25 kmph within the quarry to prevent undue noise. The effectiveness is monitored through security at the gate and the photographs of the speed boards are enclosed as <b>Annexure – 24.</b>
25.	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.	<b>Not Applicable.</b> This proposal is for quarrying and we have provided the greenbelt as per the earlier conditions.
26.	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.	<b>Agreed and in compliance.</b> The blasting is done under the supervision of competent person employed with permission of DGMS under Reg. 34 (6) and 106 (2) (b) and Explosive License. The Permission and License copies are enclosed as <b>Annexure – 25.</b>
27.	Measures should be taken for maintaining noise levels below 85 dBA in the work environment.	<b>Agreed and in compliance.</b> The noise level monitoring was carried out and found to be within the permissible limits of prescribed standards. The Report is enclosed as <b>Annexure – 8.</b>
28.	Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.	<b>Not Applicable.</b> There is no proposal for drawing ground water for quarrying works.

29.	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six-monthly compliance reports to SEIAA.	<b>Agreed and in compliance.</b> The regular monitoring is carried out through a NABL Lab. The Report is enclosed as <b>Annexure – 8.</b>
30.	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.	<b>Agreed and in compliance.</b> As per the garland drain is made by making pitching works and channelizing the drain through settlement traps so to ensure adequate drainage of the overland flow. The collected water is used for greenbelt development and dust suppression activities within the quarry. Photographs of the Garland Drain are enclosed as <b>Annexure – 4.</b>
31.	Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	<b>Agreed and in compliance.</b> The regular monitoring is carried out through a NABL Lab. The Report is enclosed as <b>Annexure – 8.</b>
32.	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.	<b>Agreed and in compliance.</b> As per the garland drain is made by making pitching works and channelizing the drain through settlement traps so to ensure adequate drainage of the overland flow. The collected water is used for greenbelt development and dust suppression activities within the quarry. Photographs of the Garland Drain are enclosed as <b>Annexure – 4.</b>
33.	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 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.	<b>Noted &amp; agreed.</b> As of now there is no scope in the Project.

34.	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	<p><b>Agreed &amp; complied.</b> Clearances Obtained –</p> <ol style="list-style-type: none"> <li>1. Panchayat License</li> <li>2. Consent to Operate under Air Act</li> <li>3. Consent to Operate under Water Act</li> <li>4. Explosive License from PESO</li> <li>5. 34 (6) Manager Permission from DGMS</li> <li>6. 106 (2) (b) Permission from DGMS</li> <li>7. Insurance to Workers</li> </ol> <p>The copies of clearances are enclosed as <b>Annexure – 16.</b></p>
35.	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 area shall be backfilled.	<p><b>Agreed and in compliance.</b> The topsoil is preserved in the safety barrier and the overburden is dumped by making terrace benching and also construction gabbion wall (retaining wall) at the foot of the dump slope with weep holes to arrest any surface runoff during rainy seasons. Photographs of the OB Dumps are enclosed as <b>Annexure – 9.</b> No backfilling is proposed during operational stage and possible only during mine closure stage.</p>
36.	All the mining equipment used in Mining 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.	<p><b>Agreed and in compliance.</b> The machinery deployed are in maintained in well condition by regular greasing and change of air filters. The Spent oil is collected in barrels and are dispatched to authorized recyclers. The photographs of the spent oil securely collected and stored within the mine lease is enclosed as <b>Annexure – 26.</b></p>
37.	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area. .	<p><b>Agreed and in compliance.</b> Only PUC Certified machineries are deployed for quarrying works and vehicle wash are done within the lease area/own lands adjacent to lease.</p>
38.	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 PM <sub>10</sub> and PM <sub>2.5</sub> . 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.	<p><b>Agreed and in compliance.</b> The water sprinkling activities are carried out through Water Tanker. Photographs of Mitigation Measures are enclosed as <b>Annexure – 23.</b> <b>Agreed and in compliance.</b> The regular monitoring is carried out through a NABL Lab. The Report is enclosed as <b>Annexure – 8.</b></p>

39.	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.	<b>Agreed and in compliance.</b> The water sprinkling activities are carried out through Water Tanker. Photographs of Mitigation Measures are enclosed as <b>Annexure – 23.</b>
40.	Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure.	<b>Agreed and in compliance.</b> The CER activities are implemented as agreed and the photographs of the CER Implementation with activity details are enclosed as <b>Annexure – 10.</b>
41.	The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.	<b>Agreed and in compliance.</b> All the workers are provided with insurance and the insurance copies are available in <b>Annexure – 16.</b> All workers are provided with PPE and photographs of the same are available in <b>Annexure – 23.</b>
42.	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.	<b>Agreed and in compliance.</b> All the workers are provided with insurance and the insurance copies are available in <b>Annexure – 16.</b>
43.	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports.	<b>Agreed and compliance in progress.</b> All workers will be sent for Occupational health checkup in prescribed Form O of MMR 1961 is scheduled and in progress. Reports will be furnished during next HYCR.
44.	The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an ecofriendly manner.	<b>Agreed and will be complied.</b> As the suggested activity is a Mine Closure works. It is hereby undertaken to comply this condition during the End of Life of Mine.
45.	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.	<b>Not Applicable.</b> No Government Land is involved in the proposal.
46.	Any accident occurring in the mined-out area after the lease period due to negligence in carrying out safety measures and non-closure, will lead to suspension of all EC obtained for mining by the Proponent.	<b>Agreed and will be complied.</b> As the suggested activity is a Mine Closure works. It is hereby undertaken to comply this condition during the End of Life of Mine.

47.	In case of transfer of EC, the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.	<b>Noted &amp; agreed.</b>
48.	The proponent shall submit Half Yearly Compliance Reports (1 <sup>st</sup> of June & 1 <sup>st</sup> of December) on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall be simultaneously sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31 <sup>st</sup> March every year.	<b>Noted &amp; agreed.</b> The HYCR are submitted through Online Medium. And hard copies are maintained at Office.
49.	The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at Bangalore/SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports.	<b>Noted &amp; agreed.</b>
50.	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	<b>Noted &amp; agreed.</b>
51.	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environment Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	<b>Noted &amp; agreed.</b>
52.	The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.	<b>Noted &amp; agreed.</b>
53.	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.	<b>Noted &amp; agreed.</b>

54.	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.	<b>Noted &amp; agreed.</b>
55.	Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<b>Noted &amp; agreed.</b>
56.	The SEIAA may revoke or suspend the order, for non-implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.	<b>Noted &amp; agreed.</b>
57.	As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.	<b>Agreed and in compliance.</b> The MMR 1961, Reg. 106 (2) (b) permission is obtained and is made available in <b>Annexure – 16.</b>

Yours faithfully,



Joshy A Chemparathy  
Authorized Signatory

**COPY OF  
ENVIRONMENTAL  
CLEARANCE**



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

To,

The Managing Partner  
KLR GRANITES  
Shri. Joshy A Chemparathy,  
Managing Partner,  
M/s. K L R Granites,  
27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha-Post, Idukki,  
Kerala -685584

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)  
in respect of project submitted to the SEIAA vide proposal number  
SIA/KL/MIN/275159/2022 dated 10 Aug 2022. The particulars of the environmental  
clearance granted to the project are as below.

- |   |                         |
|---|-------------------------|
| 1. EC Identification No.                      | EC23B001KL154968        |
| 2. File No.                                   | 2073/EC1/2022/SEIAA     |
| 3. Project Type                               | New                     |
| 4. Category                                   | B2                      |
| 5. Project/Activity including<br>Schedule No. | 1(a) Mining of minerals |
| 6. Name of Project                            | Ms. K L R Granites      |
| 7. Name of Company/Organization               | KLR GRANITES            |
| 8. Location of Project                        | Kerala                  |
| 9. TOR Date                                   | N/A                     |

The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

Date: 06/10/2023

(e-signed)  
Dr Rathan U kelkar IAS  
Member Secretary  
SEIAA - (Kerala)

*Note: A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.*

*This is a computer generated cover page.*

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सत्यमेव जयते

**PROCEEDINGS OF THE  
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT  
AUTHORITY – KERALA, THIRUVANANTHAPURAM**

*(Present : Dr.H.Nagesh Prabhu IFS (Retd), Chairman,  
Shri.K.Krishna Panicker, Member, Dr.Rathan U. Kelker IAS, Member Secretary)*

**Sub:- Environment Clearance for the Granite Building Stone Quarry of Shri. Joshy .A. Chemparathy, Managing Partner, M/s. K L R Granites, 27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha-Post, Idukki - Granted – Orders issued.**

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**State Level Environment Impact Assessment Authority, Kerala**

**Proposal No. SIA/KL/MIN/275159/2022**

**File No. 2073/EC1/2022/SEIAA**

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- Ref: 1. Application for EC received from Shri. Joshy A. Chemparathy on 10.8.2022  
2. Minutes of the 147<sup>th</sup> meeting of SEAC held on 21<sup>st</sup> & 22<sup>nd</sup> July 2023  
3. Minutes of the 131<sup>st</sup> meeting of SEIAA held 24<sup>th</sup> & 25<sup>th</sup> August 2023

**ENVIRONMENTAL CLEARANCE NO.159/Q/2023**

Shri. Joshy A Chemparathy, Managing Partner, M/s. K L R Granites, 27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha-Post, Idukki – 685584, submitted an application for Environmental Clearance for the Granite Building Stone Quarry Project for an area of 3.8717 Ha at Re-Sy Block No. 20, Re-Sy No. 47/1-9 in Malayalappuzha Village, Konni Taluk, Pathanamthitta .

**i) Project Details**

<b>SL. No</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Project	Granite Building Stone Quarry Project of Shri. Joshy A Chemparathy, Managing Partner, M/s. K L R Granites

2	Proposed Activity	Mining of Granite Building Stone
3	Name of the Sector & Schedule No. (in the EIA Notification, 2006)	Non Coal mining, Activity 1(a), Category B2
4	Name & Address of the Project Proponent	Shri. Joshy A Chemparathy, Managing Partner, M/s. K L R Granites 27/906 Josh Building, Kothayikunnu Bypass Thodupuzha-Post, Idukki - 685584
5	Project Location	
	a) Re-Sy Block No.	20
	b) Re - Survey No.	47/1-9
	c) Village	Malayalappuzha
	d) Panchayath	Konni
	e) Taluk	Konni
	f) District	Pathanamthitta.
6	Geo Co-ordinates	As per the mining plan
7	Extent (in Hectare)	3.8717
8	Project Cost	Rs. 758.75 lakh
9	Production details	The production/mineable reserve shall be reworked by the Mining & Geology Department as per specific condition no.(4)
10	Date of field inspection	06.05.2023

ii) **EMP Details**

<b>Sl.No</b>	<b>Particulars</b>	<b>Capital Cost (Lakhs Rs)</b>	<b>Recurring Annual Cost (Lakhs Rs)</b>
1	Water Sprinkling for dust suppression	-	8.00
2	Green belt development	-	2.25
3	Personal protective equipment	-	1.10
4	Environmental monitoring	-	2.00
5	Desilting and Maintenance of Garland Drain, SST and RWHP	-	4.00
6	Maintenance of haulage roads for removal of dust accumulation	-	2.00
7	Coir matting on the dump, dump maintenance etc.,	-	2.00
8	Activities proposed as CER	12.00	-
	<b>TOTAL</b>	<b>12.00</b>	<b>21.35</b>

**iii) CER Details**

Activity	Cost incurred 1 <sup>st</sup> Year	Maintenance Provision Provided				Total Budget
		2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	
Wheel chairs ( 5 ), Stretcher ( 5 ), Examination Coat(10), Airport Chair Set ( 5 ) to Konni Block Panchayath, Elakottoor.P.O., Konni	Rs. 3,00,000/-	Rs. 10,000/-	Rs. 10,000/-	Rs. 10,000/-	Rs. 20,000/-	Rs. 3,50,000/-
Installation of fans and sound system in the all class rooms, construction of the wash area and providing Laptop (10 Nos.) to Govt.HSS Konni	Rs. 2,50,000/-	Rs. 3,00,000/-	Rs. 15,000/-	Rs.15,000/-	Rs. 20,000/-	Rs. 6,00,000/-
Providing benches (100 nos) and desks (100 nos) to Govt. L.P.S Konni	Rs. 1,00,000/-	Rs. 1,30,000/-	Rs. 5,000/-	Rs. 5,000/-	Rs.10,000/ -	Rs. 2,50,000/-
<b>Total</b>		<b>Rs. 12,00,000/-</b>				

2. In the 147<sup>th</sup> meeting, the Committee examined the proposal and verified the documents submitted by the project proponent. The mineable reserve as per mining plan is 2034517.50 MT and annual production is 3,49,920.23 TPA. The mine life is 7 years. The depth to water table is 10m and the source of water is an open well. The highest and lowest elevation is 115m and 145m, respectively. The presentation and field inspection has been completed. Based on discussions, the Committee recommended EC for mine life of 7 years subject to certain Specific Conditions in addition to the General Conditions.

3. In the 131<sup>st</sup> meeting, Authority noted that for the sustainable management of quarry operations, the approved mining plan is revised every five years till the project life of mine as per KMMC Rules, incorporating scheme of activities to be carried out for the next 5 years. Authority is of the opinion that it is essential to match these procedures and time lines followed in the department of Mining and Geology with the time lines ECs issued for the sustainable management of quarry operations and protection of environment in the project region.

**The Authority decided to issue Environmental Clearance initially for the period of 5 years, and then to extend the EC period to cover the project life of 7 years, from the date of execution of mine lease / permit, for the quantity mentioned in the approved mining plan, subject to the specific condition no.(4) and to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the environment in the project region.**

The EC is subject to General Conditions and the following Additional Specific Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 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 lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.*

4. *Ultimate depth is limited to 110 m amsl considering the local groundwater regime. District Geologist, Mining & Geology Department , Pathanamthitta may rework the mineable reserve before issuing lease/permit.*
5. *The banks of the seasonal stream should be protected to ensure adequate drainage of the overland flow. Two or three silt traps should be provided in the drain carrying the overland flow to the seasonal stream.*
6. *Development of green belt should be initiated prior to the commencement of mining using indigenous species. The suggested species are 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.*
7. *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.*
8. *The impact of vibration due to blasting on the houses and other built structures within 500m 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.*
9. *Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).*
10. *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.*
11. *Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR.*
12. *Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration*

13. *Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites*
14. *CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.*
15. *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 pm).*
16. *Adequate sanitation, waste management, and restroom facilities should be provided to the workers.*
17. *Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement should be met from the solar power. It should be used for office purposes and premises lighting*
18. *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.*
19. *Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.*
20. *Adequate measures should be taken to harvest the rainwater as per the guidelines issued by the Central Ground Water Authority.*
21. *Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
22. *As per OM no F.No.22-65/2017-IA.III dated 30<sup>th</sup> 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 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.*

23. *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.*
24. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16<sup>th</sup> 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.*
25. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986*

**4. Environmental Clearance as per the EIA Notification, 2006 is hereby accorded for the Granite Building Stone Quarry Project of Shri. Joshy A Chemparathy, Managing Partner, M/s. K L R Granites, 27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha-Post, Idukki – 685584, for an area of 3.8717 Ha at Re-Sy Block No. 20, Re-Sy No. 47/1-9 in Malayalappuzha Village, Konni Taluk, Pathanamthitta, initially for the period of 5 years, and then to extend the EC period to cover the project life of 7 years, from the date of execution of valid mining lease/permit from the Department of Mining and Geology as per S.O.1807 (E) dated.12.04.2022 of MoEF&CC, for the quantity reassessed by the Mining & Geology Department, subject to the Specific Condition no. (4) in Para 3 above, and all the environmental impact mitigation and management measures undertaken by the Project Proponent in the Form I, EMP, PFR and Mining Plan submitted to SEIAA. The assurances and clarifications given by the project proponent will deemed to be a part of this Proceedings as if incorporated herein. Also the General Conditions for projects stipulated for mining (items 1 to 57), mentioned below will be applicable and have to be strictly adhered to.**

5. 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 the mining features including 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 undertaken by the project proponent, as if incorporated herein.
6. Validity of the Environmental Clearance will be initially for a period of **Five (5) years** from the date of execution of valid mine lease / permit from Mining & Geology Department as per SO 1807(E) dated 12.04.2022 of MoEF & CC, subject to earlier review of EC in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry. The validity shall extend to cover Project Life of 7 years, from the date of execution of original EC, subject to the review by SEAC at the end of every five years as stipulated in Para (3) & (4).
7. Compliance with the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices and also by the Regional Office of the Ministry of Environment, Forest & Climate Change, Govt. of India, Bangalore. Necessary assistance for entry and inspection should be provided by the Project Proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring. Instances of violation if any shall be reported to the District Collector, Pathanamthitta
8. The Half Yearly Compliance Report (HYCRs) with name of the project, EC No. and date, the period of submission with its contents, compliance report and environmental monitoring data & covering letter have to be uploaded in the Parivesh Portal as per O.M. F.No.IA3-22/1/2022-IA-III(E)-17264 dated 14.06.2022 and the website of the Project Proponent. Hardcopy of HYCRs shall not be acceptable.
9. The given address for correspondence with the authorised signatory of the project is Shri. Joshy A Chemparathy, Managing Partner, M/s. K L R Granites, 27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha-Post, Idukki – 685584

## **GENERAL CONDITIONS**

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.*
2. *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.*
3. *The project proponent should advertise in news papers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at [www.seiaakerala.in](http://www.seiaakerala.in). The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.*
4. *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. The Environmental Clearance shall also be uploaded on the website of the company.*
5. *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.*
6. *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.*
7. *Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.*

8. *Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.*
9. *Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.*
10. *A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report.*
11. *Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby.*
12. *The quarrying operation (blasting) shall be restricted between 7 AM and 5PM*
13. *Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.*
14. *Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45°.*
15. *The height of any bench shall not exceed five meters and breadth shall not be less than the height.*
16. *The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources are obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.*
17. *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.*

- 18. The 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.*
- 19. The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.*
- 20. Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions.*
- 21. 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.*
- 22. Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.*
- 23. 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.*
- 24. Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.*
- 25. 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.*

- 26. 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.*
- 27. Measures should be taken for maintaining noise levels below 85 dBA in the work environment.*
- 28. Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.*
- 29. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly compliance reports to SEIAA.*
- 30. 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.*
- 31. Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.*
- 32. 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.*
- 33. 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 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.

34. The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
35. 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 area shall be backfilled.
36. All the mining equipment used in Mining 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.
37. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area. .
38. 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 PM<sub>10</sub> and PM<sub>2.5</sub>. 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.
39. 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.

40. *Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure .*
41. *The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.*
42. *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.*
43. *Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports.*
44. *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.*
45. *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.*
46. *Any accident occurring in the mined out area after the lease period due to negligence in carrying out safety measures and non-closure , will lead to suspension of all EC obtained for mining by the Proponent.*
47. *In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.*
48. *The proponent shall submit Half Yearly Compliance Reports (1<sup>st</sup> of June & 1<sup>st</sup> of December) on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall be simultaneously sent to the respective Regional Office of Ministry of*

*Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31<sup>st</sup> March every year.*

- 49. The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at Bangalore/SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports.*
- 50. The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project.*
- 51. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environmental Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.*
- 52. The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.*
- 53. 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.*
- 54. 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.*
- 55. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.*
- 56. The SEIAA may revoke or suspend the order, for non implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.*

57. As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.

**Sd/-  
Administrator, SEIAA  
For Member Secretary, SEIAA**

To,

Shri. Joshy A Chemparathy,  
Managing Partner, M/s. K L R Granites,  
27/906 Josh Building, Kothayikunnu Bypass,  
Thodupuzha-Post, Idukki – 685584

Copy to

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034. (through e-mail: rosz.bng-mefcc@gov.in)
2. The Secretary to Government, Environment Department, Government of Kerala
3. The Director, Directorate of Environment & Climate Change, 4th Floor KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala 695001.
4. The District Collector, Pathanamthitta
5. The Director, Mining & Geology, Thiruvananthapuram -4.
6. The Member Secretary, Kerala State Pollution Control Board
7. The District Geologist, Pathanamthitta
8. The Tahsildhar, Konni Taluk Pathanamthitta District
9. The Secretary, Konni Grama Panchayat, Pathanamthitta
10. The Chairman, SEIAA.
11. Website.
12. S/f
13. O/c

**Signature Not Verified**

Digitally signed by D. Rathan U  
kelkar IAS  
Member Secretary

Date: 10/6/2023 9:10:06 PM

# **ANNEXURE – 1**

## **DECLARATION OF PROJECT PROPONENT**

# M/s. K L R Granites

27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha-Post  
Idukki District, Kerala – 685584

Ph No: +91 9946555658, +91 9447055658

Ref: KLR/EC/COMP/DEC/12/2024

Date: 01.12.2024

## TO WHOMSOEVER IT MAY CONCERN

### DECLARATION

I herewith declare that we have been carrying the quarrying activities at Re-Sy Block No.:20, Re-Sy No.: 47/1-9, Malayalappuzha Village, Konni Taluk, Pathanamthitta District, Kerala State over an extent of 3.8717 Ha as per the Approved Mining Plan and Conditions of Environmental Clearance and also complying the provisions of Kerala Minor Mineral Concession Rules 2015 and amendments thereby.

Yours faithfully,



Joshy A Chemparathy  
Authorized Signatory

# **ANNEXURE – 2**

## **COPIES OF PROCEEDING AND LEASE DEED**

**PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY,  
THIRUVANANTHAPURAM, KERALA  
(Present HARITHA.V.KUMAR IAS)**

Sub:-Department of Mining and Geology - Mines & Minerals - Minor Mineral - Granite (Building Stone)- Quarrying Lease to M/s K.L.R Granites, 27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha, P.O, Idukki - 685 584. (Represented by its Managing Partner, Shri. Joshy A Chemparathy) - sanctioned - orders - issued - reg.

- Ref:- 1. Application dated /11/2021 from M/s K.L.R Granites, 27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha, P.O, Idukki - 685 584. (Represented by its Managing Partner, Shri. Joshy A Chemparathy).
2. Letter No. 2493/DOPTA/M/2021 Dated 14/02/2022, and DOPAT - DMG/429/2023-M Dated 21/11/2023, 05/12/2023, 22/01/2024 from the Geologist, District Office, Pathanamthitta.
3. Letter of Intent No.DMG/631/2022 - M2 Dated 19/04/2022 issued by Director of Mining and Geology.
4. Environmental clearance No. 159/Q/2023, Dated 06/10/2023 by the State Environment Impact Assessment Authority, Kerala.
5. Integrated consent to operate No. KSPCB/PT/ICO/10045668/2023 Dated 21/10/2023 issued by Kerala State Pollution Control Board Pathanamthitta (valid till 18/04/2027).
6. Explosive License No. E/SC/KL/22/1764(E50911) dated 20/09/2023 issued by Petroleum and Explosives Safety Organization, Ernakulam (valid till 31/03/2028).
7. Dangerous and Offensive Trade License No. 400371/RPTL19/GPO/2023/6263 Dated 20/11/2023 issued by the Secretary Kottai Grama Panchayath (valid till 31/03/2024).
8. Mines and Minerals (Development & Regulation) Act,1957.
9. Kerala Minor Mineral Concession Rules, 2015
10. Kerala Minerals (Prevention of Illegal Mining, Storage & Transportation) Rules 2015

Pro No.734/2023-24/DMG/631/2022 -  
M2

Thiruvananthapuram 29-02-2024

**ORDER**

M/s K.L.R Granites, 27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha, P.O, Idukki - 685 584. (Represented by its Managing Partner, Shri. Joshy A Chemparathy) submitted an application vide reference 1<sup>st</sup> cited to obtain quarrying lease to quarry Granite (Building Stone) over an area of 3.8717 Hectares of land (as per the survey map issued by Tahsildar, Kottai) comprised in Block No. 20, Re- Survey Nos. 47/1-9 of Malayalappuzha Village, Kottai Taluk, Pathanamthitta District. Vide letters referred 2<sup>nd</sup> above the District Geologist, Pathanamthitta has intimated that the applied area is virgin and there was no dues by way of royalty to be

collected from the applicant.

Based on the merit of the application and the enclosed mandatory documents including survey map, possession certificates, demarcation certificate and land assignment certificate issued by Revenue Authorities and based on the recommendation of the District Geologist, a letter of intent was issued to the applicant vide reference cited 3<sup>rd</sup> intimating the intention of the department to grant quarrying lease subject to production of approved mining plan and other statutory licenses. The District Geologist forwarded the mining plan (prepared by Sri. J.R. Vikram Krishna, Recognized Qualified Person - Reg. No. DMG/KERALA/RQP/23/2019) approved by him and other statutory licenses submitted by the applicant to this office. In the approved mining plan it is mentioned that during the life of the mine (7 years), mineable mineral reserve of 17,31,580 MT can be mined and it is proposed to mine a quantity of 3,60,000 MT of granite (building stone) per year. Since the applicant has produced all statutory documents as per the Letter of Intent, it is decided to grant a quarrying lease in the said land and hence the following orders are issued:

A quarrying lease is hereby granted to M/s K.L.R Granites, 27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha, P.O, Idukki - 685 584. (Represented by its Managing Partner, Shri. Joshy A Chemparathy) to quarry Granite (Building Stone) over an area of 3.8717 Hectares of land (as per the survey map issued by Tahsildar, Kanni) comprised in Block No. 20, Re- Survey Nos. 47/1-9 of Malayalappuzha Village, Kanni Taluk, Pathanamthitta District for 7 (Seven) years as per the Kerala Minor Mineral Concession Rules, 2015, subject to the conditions mentioned below:

1. The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015 and the quarrying lease deed shall be registered in accordance with the provisions of the Indian Registration Act, 1908.
2. The lessee shall commence quarrying operation only after the deed is executed and registered.
3. The lessee shall not assign, sublet or transfer his lease or any right or interest therein to any person without previous written permission of the Director of Mining and Geology.
4. Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
5. Deed rent is realizable under 40(1) (d) of the said rules subject to revision from

time to time on the basis of amendments to the schedule II of the said rules.

6. Surface rent realizable under 40(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.

7. The lessee shall also deposit an amount of **Rs. 38,717/- (Rupees thirty eight thousand seven hundred and seventeen only)** being the security deposit at the rate of Rs.10,000/- per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules.

8. The lessee shall produce financial guarantee for **Rs. 11,61,510/- (Rupees Eleven lakh sixty one thousand five hundred and ten only)** as stipulated in rule 62 of KMMC Rules 2015, before execution of lease deed.

9. The lessee shall pay tax related to Revenue Department, if any, as directed by them and the details should be furnished to the District Geologist periodically.

10. The lessee shall pay 10% of the amount of royalty as the case may be paid by them, being the District Mineral Foundation Trust Fund in addition to the royalty as per rule 63 of KMMC Rules, 2015 and subsequent amendments.

11. In addition to the royalty, rents, furds, fees etc. that are required to be remitted by the lessee as per the Mines and Minerals (Development and Regulation) Act, 1957 and Rules made thereunder, the lessee shall pay all other fees, rents, taxes etc. as required by other agencies including Goods and Service Tax (GST) for royalty.

12. The quarrying shall be carried out as per the conditions stipulated in Kerala Minor Mineral Concession Rules 2015 and storage and transportation of mineral shall be carried out as per Kerala Minerals (Prevention of Illegal Mining, Storage and Transportation) Rules, 2015 and subsequent amendments.

13. The quarrying operations shall be strictly as per the approved mining plan and schemes of mining.

14. The lessee shall review the progressive quarry closure plan every five years from the date of opening of the quarry and shall submit to the competent authority for its approval. The lessee shall submit to the competent authority in this behalf an yearly report before 1<sup>st</sup> July of every year describing protective works including reclamation and rehabilitation work carried out as envisaged in the approved quarry closure plan and if there is any deviation, reasons thereof.

15. The lessee shall submit a scheme of mining for the next five years or remaining period of the lease to the competent authority for approval at least one hundred and twenty days before the expiry of the first five year period for which it was approved on the last occasion.

16. The lessee shall submit final quarry closure plan one year prior to the proposed closure of the quarry and close the quarry as per the approved quarry closure plan.

17. The production of Granite (Building Stone) from the area covered under this grant shall be subject to the year-wise quantity specified in the approved Mining Plan and Scheme of mining.
18. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order.
19. The Lessee shall comply with any and all laws, ordinances, rules and orders related to quarrying operations of any and all governmental or quasi-governmental authorities.
20. The lessee shall comply with all the conditions mentioned in other statutory license required for carrying out quarrying operations.
21. The lessee shall stop all quarrying activities in the event of expiry of any other statutory licenses which is required for carrying out quarrying activities in the State as per the prevailing Acts and Rules. Any quarrying activity undertaken violating the above condition will be treated as illegal and lessee will be solely responsible for such act and lessee will be liable to pay the penalty imposed by any officer competent to enforce such Acts and Rules.
22. In case the lessee makes any breaches in the conditions of the lease deed or violates the conditions stipulated in relevant Act and Rules based on which all Statutory Licenses are issued for quarrying, then the lessee will be solely responsible for any such breaches and violation and in such cases, the lessee will be solely liable to pay such sum of money as fixed by competent authorities as due and penalty.
23. The Lessee shall indemnify and keep indemnified the State Government against all actions, proceedings, suits, claims, demands, losses, damages, costs, charges, and expenses incurred or suffered by them as a reason of any non-observance or non-performance of rules and regulations.
24. This lease is granted in good faith based on the documents/licenses submitted by the lessee. The lessee is solely responsible for the authenticity of the documents / licenses submitted. At any stage, if it is observed that the documents submitted are incorrect or fake or forged or if it is found that some information was omitted or suppressed, then this lease is liable to be cancelled. In such an event the quarrying carried out with the strength of this lease will be treated as quarrying conducted without any lawful authority.
25. The lessee shall properly maintain the boundary pillars erected as per the demarcation certificate issued by the Village Officer till the expiry of lease.
26. The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 meter x 1.5 meters in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the lessee, mineral

concession number and date, validity of concession, the name of the mineral quarried, proposed annual production etc. In addition details of other statutory licenses shall be displayed.

27. The lessee shall erect by the side of the road leading to quarry (preferably 100 m away from quarry), a warning board with danger sign regarding operation of the quarry and use of explosives.

28. The lessee should take effective preventive measures for the safety of labourers as well as the general public. In due course of quarrying, if any part of the quarry become unsafe, then the lessee shall properly fence that area for preventing accidents by falling of human beings, animals, vehicles, or any objects into the pit formed by the quarrying.

29. The lessee shall not carry out any quarrying operations within 7.5 meters from the boundary of the lease area and quarrying operations shall be carried out in benches.

30. The lessee shall send a notice in form D appended to KMMC Rules 2015 to the Director (Mining), Directorate General of Mines Safety, No.5, 14th Main (100ft) Road, 4<sup>th</sup> B Block, Koramangla, Bengaluru - 560034 and to the District Magistrate concerned before commencing the quarrying operation and shall intimate the same to the District office of the Department of Mining and Geology concerned.

31. The lessee shall keep book of accounts of production and dispatch of granite (building stone) and shall file monthly and annual returns in Form F and Form G appended to KMMC Rules, 2015.

32. The quarrying permit granted from the district office, if any, in the area of this quarrying lease hereby stands cancelled from the date of this order.

33. In this case, the anticipated royalty to be remitted for the mineral extracted per year at the present rate of royalty of **Rs.48/-** per metric ton with annual production of **3,60,000 metric ton** is **Rs 1,72,80,000/-** (Rupees One core seventy two lakh eighty thousand only). In this case, the surface rent to be remitted per year at the present rate of **Rs. 8/-** per Acre per year is **Rs. 3097/-** (Rupees Three thousand and ninety seven only) and in the event of non - functioning of quarry the Dead Rent to be realized for the 1<sup>st</sup> year - **NIL**; 2<sup>nd</sup> year - **Rs. 300/-** (Rupees Three hundred only) and 3<sup>rd</sup> year onwards - **Rs.1200/-** (Rupees One thousand and two hundred only) per hectare per annum subject to revision from time to time. The terms and conditions stated in this order will be subject to such further modifications as may be made by the State Government from time to time.

HARITHA.V.KUMAR IAS  
DIRECTOR

Signed by  
M C Kishor

Date: 29-02-2024 08:35:46

To

M/s K.L.R Granites



16/03/2024

27/906 Josh Building, Kothayikunnu Bypass,  
Thodupuzha, P.O, Idukki - 685 584.

(Represented by its Managing Partner, Shri. Joshy A Chemparathy)  
Copy to:

1. The Director (Mining), Directorate General of Mines Safety, No.5, 14th Main (100ft) Road, 4th B Block, Koramangla, Bengaluru- 560034.
2. Member Secretary, SEIAA, Thampanoor Bus Terminal Complex, Thiruvananthapuram.
3. The Chairman, SEIAA, Thampanoor Bus Terminal Complex Thiruvananthapuram.
4. The Deputy Chief Controller of Explosives, PESO, C2-III Floor, CGO Complex, Kakkanad, Ernakulam.
5. The Environmental Engineer, Kerala State Pollution Control Board, District Office, Pathanamthitta.
6. The Secretary, Konni Grama Panchayath, Pathanamthitta District.
7. The Tahsildar, Konni Taluk Office, Pathanamthitta District.
8. The Village officer, Malayalappuzha Village, Pathanamthitta District.
9. The Geologist, District Office of the Dept. of Mining and Geology, Pathanamthitta.
10. Stock File.



DRUIDK/456/2024-INS, Office of the District Registrar, Idukki  
Thodupuzha 05-03-2024

CERTIFICATE UNDER SECTION 32(1)(b) OF KERALA STAMP ACT 1959

Certified that proper stamp duty of Rs. 1383350/- (Rupees Thirteen Lakh Eighty Three Thousand Three hundred and Fifty only) with which the document is chargeable has been remitted by Sri. Joshy A Chemparathy, Managing Partner, M/S K.L.R. Enterprises as per ETR003227242202324 dated 05-03-2024 in this office. This document contains 8 sheets.



  
REGHUK R  
DISTRICT REGISTRAR (Collector)  
IDUKKI

**FORM H**  
(See Rule 43)  
**QUARRYING LEASE**  
Lessee : Joshy A Chemparathy

Doc. No. 465 / I / 2024.



This deed of lease made on this the 04<sup>th</sup> day of March 2024, between the Governor of Kerala (hereinafter referred to as the "State Government" which expression shall,

  
LESSOR

**SHYJU P.**  
Geologist  
Dept. of Mining & Geology  
District Office, Pathanamthitta  
Adoor P.O., Pin - 691 523

LESSEE 

The Document contains  
8 Sheets 1 Sheet

DISTRICT REGISTRAR  
IDUKKI

Doc. No. 465 / I / 2024

Presented to the office of the Sub Registrar of Idukki with affixed photograph and thumb impressions of the Lessee as per Section 32(A) of Registrars Act on the 7th day of March 2024 at 11:00 AM and paid a Registrar's fee of Rs. 347157/- Single S-Agent by.

23/906 Josh building

JOSHY. A. CHEMPARAATHY th

Greenish admitted to-

JOSHY. A. CHEMPARAATHY th

7th day of March 2024  
K. S. Krishna Kumar P.J.  
Sub Registrar



S/o Augustine business (Kottayikkunnu Bypass, Thedupuzha

Tos and on behalf of Ms. Shyju.P. Geologist adept of ~~the~~ Mining and Geology, District office Parthananthitta

Identified by

Sreenivasan th s/o. Sankara Warrier Srivilas (H), Agriculture Thedupuzha.

Sudhin. C. Poy - Sudhin s/o Das. Chollammackal (H) Agriculture, Thedupuzha.

7th day of March 2024  
K. S. Krishna Kumar P.J., Sub Registrar

Registered as No. 465/24 of Book 4

Vol. 689 page 89 to 100

8 Sheet 1st sheet Number of Duplicate registered along with the original is two

7th day of March 2024

K. S. Krishna Kumar P.J.  
Sub Registrar.



Returned to the  
Executive in 11/3/24  
with 2 Duplicates

where the context so admits be deemed to include his successors and assigns) of the one part and **M/s K.L.R Granites** (PAN : AAYFK0644A), 27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha. P.O, Idukki - 685584. (Represented by its Managing Partner, **Shri. Joshy A Chemparathy**) (Aadhaar No. 3563 8716 9714) (hereinafter called the "lessee/lessees" which expression shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part. Witnesseth that in consideration of the rents and royalties and lessee's/Lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring 3.8717 Hectares described in the schedule hereunder and delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of 7 (**Seven**) years commencing from the.....04|03|2024.....and ending on the...03|03|2031..... for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 and Kerala Minor Mineral Concession (Amendment) Rules, 2023 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing.

1. The lessee/lessees shall have the right in and upon the said lands to extract Granite Building Stone (herein after called the said mineral/minerals) and to do all acts necessary for the extraction of the said mineral/minerals including the erection on the said lands, buildings and plant required for the purposes and also to take lead and carry away over the said lands and to dispose of the said minerals extracted as aforesaid.
2. The lessee/lessees shall during the subsistence of this lease have the liberty to work the said mineral/minerals and remove the same from the leasehold on permits issued by the State Government/competent authority or any other officer authorized by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the rates specified in Schedule I to these Rules. The royalty rates shall be subject to revision from time to time as the State Government may order.


  
LESSOR

**SHYJU P.**  
Geologist  
Dept. of Mining & Geology  
District Office, Pathanamthitta  
Adoor P.O., Pin - 691 523

LESSEE



3. The lessee/lessees shall pay to the State Government a yearly surface rent equal to the land revenue if any, assessable under the rules for the time being in force, or if the land be the property of Government or in reserve forest then equal to the land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee/lessees for any of the purposes of this deed and so in proportion for any area less than one hectare. The said surface rent shall be paid by yearly payments; the first of such payments to be made on or before the last day of the first year of occupation provided always that no such rent shall be paid or demanded in respect of any roads or ways now in existence.
4. The lessee/lessees shall at all times during the currency of this lease keep correct and intelligible books of account showing accurately the quantity of the said minerals extracted and the weight and value of the said mineral sold or exported together with the names of the purchasers or consignees. The lessee shall also maintain a register of employees showing therein separately men, women employed daily and shall at reasonable times allow the competent authority appointed under the rules (hereinafter referred to as "competent authority") or the officer authorized by him to examine the said books of account and the register of employees and to take copies and extracts there from. The lessee/lessees shall submit reports in Forms F and G on the specified dates.
5. All sums found due under or by virtue of this deed from the lessee/lessees may be recovered from him jointly and severally from them and his/their properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue or in any other manner as the State Government may deem fit.
6. The lessee/lessees shall at the lessee's/lessees' own expense erect and at all times maintain and keep in repair boundary marks and pillars along the boundaries of the said lands according to the demarcation shown in the plan here to annexed.



LESSOR

SHYJU P.  
Geologist  
Dept. of Mining & Geology  
District Office, Pattanamthitta  
Adoor F.O., Pin - 691 523

LESSEE



The Document contains  
8 Sheets 3 Sheet

  
DISTRICT REGISTRAR  
IDUKKI

In 2024 Book 1 Doc. No. 465/24  
8 sheets 3rd sheet

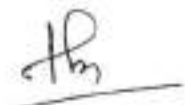


7. The lessee shall not carry on or allow to be carried on any quarrying operations at or to any points within a distance of 100 meters from any railway line except with the previous written permission of the railway administration concerned and any bridge on National Highway or 50 meters from any reservoir, tanks, canals, rivers, bridges, public roads, other public works, residential buildings, the boundary walls of places of worship, burial grounds or burning ghats or any monument protected by Government except with the previous permission of the authorities concerned or the Government or competent authority. Provided the railway administration or the State Government or any other authority in this behalf may in granting such permission impose such other conditions as may be found proper and necessary.
8. The sides of open workings shall be sloped, stepped or secured by the lessee in such a manner as to prevent slope failure, when an open working is worked in steps, steps shall be of sufficient breadth in relation to their height to secure safety. In open workings trees liable to fall and all loose ground and material shall be removed by the lessee sufficiently far from the edge or otherwise made source in order to prevent danger to persons employed in the quarry.
9. If a working place is found to be unsafe all persons shall be withdrawn by the lessee/ lessees immediately from the dangerous area and all access to such working place except for the purpose of removing the danger of saving life shall be prevented by securely fencing the full width of all entrances to the place.
10. The lessee/lessees shall at all reasonable times allow any officer authorized by the Central Government or by the State Government in that behalf to inspect the said lands and the buildings and plants erected thereon and the lessee/lessees shall assist such persons in conducting the inspection and afford them all information they may reasonably require, and shall conform to and observe all orders which the Central and State Governments as the result of such inspection or otherwise, may from time to time pass.

  
LESSOR

SHYJU P.  
Geologist  
Dept. of Mining & Geology  
District Office, Pathanamthitta  
Adoor P.O., Pin - 621 523


LESSEE



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8 Sheets 4 Sheet

  
DISTRICT REGISTRAR  
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In 2024 Book 1 Doc. No. 465/24

8 Sheets 4<sup>th</sup> Sheet  
No. 



11. The lessee shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.
12. The lessee/lessees shall not assign or underlet the said lands or any part thereof or the rights or privileges, therein hereby granted or any of them without the previous permission in writing of the State Government/competent authority.
13. Where the lease or any right, title or interest therein has been assigned, sublet or transferred as provided in rule 45 read with condition 12, then the person in whose favor such assignment, sublease or transfer has been made shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.
14. The lease may be surrendered by the lessee/lessees at any time after 3 months notice in writing to the State Government/competent authority: Provided the lessee/lessees has/have paid all sums due on account of the lease. Provided further that if the lessee/lessees elects/elect to determine this lease before the expiry of the term of the lease, shall pay in addition to other dues a sum equal to the dead rent payable for the remaining part of the term of the lease deed.
15. If the lessee/lessees shall be desirous of taking a further lease of the said lands for a further term, he/they shall give three months' previous notice in writing of such desire to the State Government/competent authority and if the lessee/lessees has/have duly observed all the conditions of this lease, the State Government/competent authority may agree to renew the lease for such further term and on such terms and conditions as the State Government/competent authority may determine which shall be in accordance with the provisions of these rules.
16. If the lessee/lessees shall at any time during the said term use the said lands or any part thereof in any manner other than as authorized by this lease or fail to carry on quarrying operations as per the approved mining plan without sufficient cause of which the State Government/competent authority shall be the judge or shall commit a breach of any of the conditions of this lease it shall be lawful for the State Government/competent authority

  
LESSOR

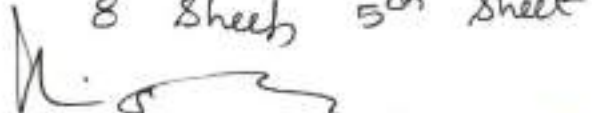
SHYJU P.  
Geologist  
Dept. of Mining & Geology  
District Office, Puthanmuthilla  
Adoor P.O., Pin - 601 523

LESSEE 

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8 Sheets 5 Sheet

  
DISTRICT REGISTRAR  
IDUKKI

In 2024 Book 1 Doc-No. 465/24

8 Sheets 5<sup>th</sup> Sheet  




- to cancel this lease after giving the lessee an opportunity of being heard or the alternative to receive from the lessee/lessees such penalty not exceeding Rs.5,00,000/- (Rupees Five Lakhs only) for the breach as the State Government/ competent authority may fix.
17. In cases where the area under quarrying lease is Government land, the lessee shall close the mine within three calendar months after the expiry of the lease or its determination and remove any engine, machinery, buildings, structures and other works and conveniences from the area under the lease. If the lessee does not remove the same within the said period, the same shall become the property of the State Government and the State Government shall have the right to dispose the same on such terms and conditions as it deems fit.
  18. This lease subject to all rules and regulations which may from time to time be issued by the State Government regulating the working of the quarries and other matters affecting safety, health and convenience of the lessee's/lessees' employees or of the public, whether under the Indian Mines Act or otherwise.
  19. The lessee/lessees shall without delay send to the District Collector and the competent authority or the officer authorized by him in this regard report of any accident causing loss of life or serious bodily injuries or seriously affecting or endangering life or property which may at any time occur at or in the said lands in the course of operations under this lease.
  20. The lessee/lessees shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may prescribe.
  21. The lessee/lessees shall make and pay such reasonable compensation as may be assessed by lawful authority in accordance with the law in force on the subject for all damage, injury or disturbance which may be done by him/them in exercise of the powers granted by this lease and shall indemnify and shall keep indemnified fully and completely the State Government against all claims which may be made by any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith.

  
LESSOR

SHYJU P.  
Geologist  
Dept. of Mining & Geology  
District Office, Falmala  
Adoor P.O., Pin - 601 603

LESSEE



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In 2024 Book 1 Doc. No. 465/24

8 sheet 6<sup>th</sup> sheet





22. Any condition prescribed in the Kerala Minor Mineral Concession Rules, 2015 but left out in this lease which may be found applicable to the lessee / lessees shall be treated as binding on the lessee/lessees.
23. In this case, the anticipated royalty to be remitted for the mineral extracted per year at the present rate of royalty of Rs. 48/- per tonne for the proposed average annual production of 3,60,000 metric ton is Rs. 1,72,80,000/- (Rupees one crore seventy two lakh eighty thousand only).
24. In this case, the annual surface rent to be remitted per year at the present rate of Rs. 8/- per Are per year is **Rs. 3,097/- (Rupees three thousand and ninety seven only)** and the refundable Security Deposit is **Rs. 38,717/- (Rupees thirty eight thousand seven hundred and seventeen only)**

#### SCHEDULE OF DESCRIPTION OF LAND

District : **Pathanamthitta**

Taluk : **Konni**

Block No: **20**

Village	Re -Survey No	Lease Area in Hectares
Malayalappuzha	47/1-9	3.8717 Ha
Total Area in Hectares		3.8717 Ha

  
LESSOR

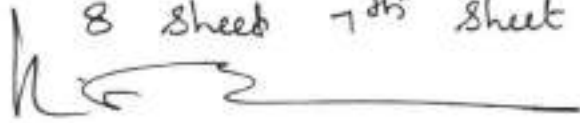
**SHYJU P.**  
Geologist  
Dept. of Mining & Geology  
District Office, Pathanamthitta  
Adoor P.O., Pin - 681 623

LESSEE



The Document contains  
8 Sheets.....7.....Sheet

  
DISTRICT REGISTRAR  
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In 2024 Book 1 Doc. No. 465/24  
8 sheet 7th sheet  




## Bounded by Survey No:

On the North by :	23/3, 47/1-12
On the East by :	47/1-12, 47/1-10
On the South by :	47/1-10, 47/1-18, 47/1-9
On the West by :	47/1-12, 47/1-11, 47/2-3, 47/1-9, 47/2-2, 47/1-2



In witness whereof the parties hereto have signed on the date and year first above written.


Signed by Shyju P 

SHYJU P.  
Geologist  
Dept. of Mining & Geology  
District Office, Pathanamthitta  
Adoor P.O., Pin - 681 523

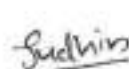
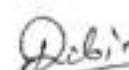
For and on behalf of the Governor of Kerala.

In the presence of

- (1) K. SANTHOSH KUMAR, Dept. of Mining & Geology  
Dist. Office, Pathanamthitta 
- (2) SHEMI N.S., DEPT. OF MINING AND GEOLOGY,  
DISTRICT OFFICE, PATHANAMTHITTA. 

Signed by JASAY A. CHEMPAKATHY 

For and on behalf of the lessee/lessees In the  
presence of

- (1) Sudhin C. Des. Chottamannaikal  
Udumbannoor, P.O. Thodiyuzha 
- (2) Dibiin K. Chamaakala  
Chamaakalayil (CH)  
Arunoottimangalam P.O.   
Kottayam 686604

  
LESSOR

SHYJU P.  
Geologist  
Dept. of Mining & Geology  
District Office, Pathanamthitta  
Adoor P.O., Pin - 681 523

LESSEE 

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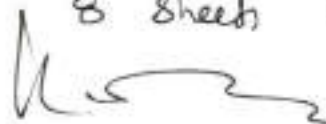
  
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# **ANNEXURE – 3**

## **MODIFIED MINING PLAN APPROVAL LETTER**

## APPROVAL COPY OF MODIFIED MINING PLAN

File No. DOPAT-DMG-429/2023-M (Computer No. 232458)

Dept. of Mining and Geology  
 District Office, Pathanamthitta  
 Near Kendriya Vidyalaya  
 KIP Building, Adoor P.O  
 Email: geo.pat.dmg@kerala.gov.in  
 Dated. 29/12/2023.

Geologist  
 Pathanamthitta

Joshy A Chemparathy  
 Managing Partner, K L R Granites  
 27/906, Josh Building, Kothayikunna Bypass  
 Thodupuzha Post, Pin -685584

Sir,

Sub: Kerala Minor Mineral Concession Rules 2015 - approval of Modified Mining Plan & Final Quarry Closure plan for (G B S ) quarry situated in Block No.20, Re Survey No.47/1-9 (3.8717 Hectares) of Konni Taluk, Malayalappuzha Village, Pathanamthitta District submitted as per Rule 66 of KMMC Rules 2015 - Reg.

Ref: 1. Kerala Minor Mineral Concession Rules 2015  
 2. Your Application dated:26/12/2023

Please refer to the above. I hereby approve the Modified Mining Plan & Final Quarry Closure Plan submitted by you subject to the following conditions.

- 1, The Mining Plan is approved without prejudice to any other law applicable to the area from time to time whether made by Central Government, State Government or any other authority.
- 2, The Mining Plan is approved without prejudice to any order or direction from any court of competent jurisdiction.
- 3, It is also clarified that approval of your aforesaid Mining Plan dose not in any way imply the approval of Government in terms of any other provisions of the Kerala Mining Mineral Concession Rules 2015.
- 4, It is further clarified that the approval of Modified Mining Plan & Final Quarry Closure Plan is subject to the provisions of other relevant statutes, order and guidelines as may be applicable to the mining area from time to time.
- 5, The approval of the Modified Mining Plan & Final Closure Plan shall be revoked with immediate effect if it is found at a later stage that the information furnished in the plan are incorrect or false.



Yours faithfully

GEOLOGIST

# **ANNEXURE – 4**

## **PHOTOGRAPHS OF THE PROTECTION OF SEASONAL STREAM**

PHOTOGRAPHS OF THE PROTECTION OF SEASONAL STREAM



# **ANNEXURE – 5**

## **PHOTOGRAPHS OF THE GREENBELT DEVELOPMENT**

PHOTOGRAPHS OF GREENBELT DEVELOPMENT















**ANNEXURE – 6**

**PHOTOGRAPHS OF  
THE GARLAND  
DRAIN**

PHOTOGRAPHS OF THE GARLAND DRAIN SYSTEM



# **ANNEXURE – 7**

## **RESULT OF THE VIBRATION MONITORING**

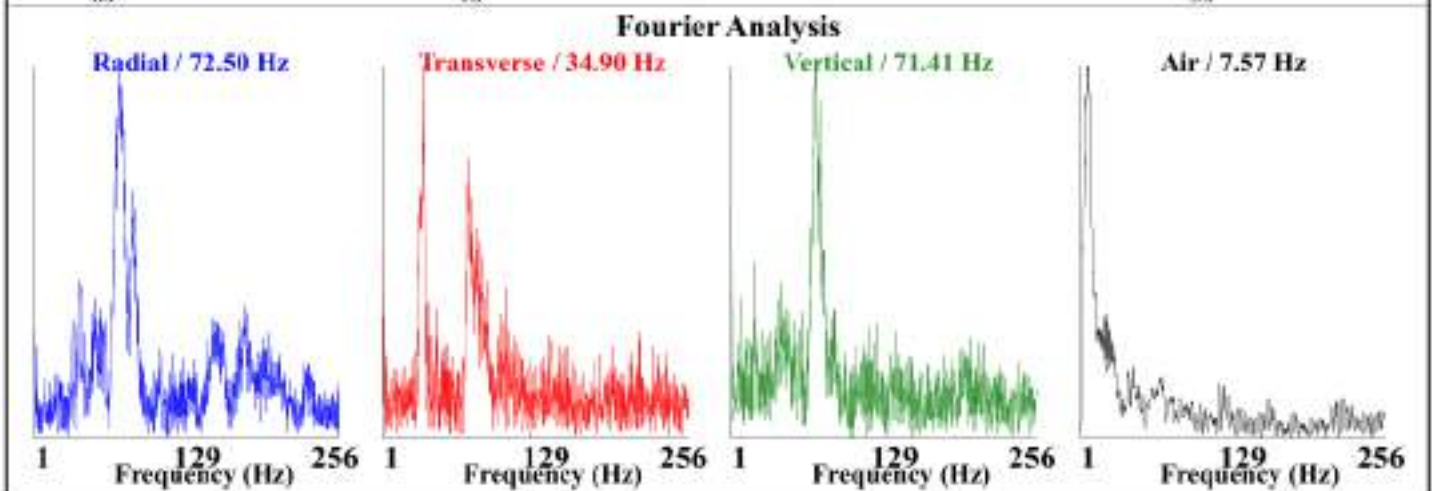
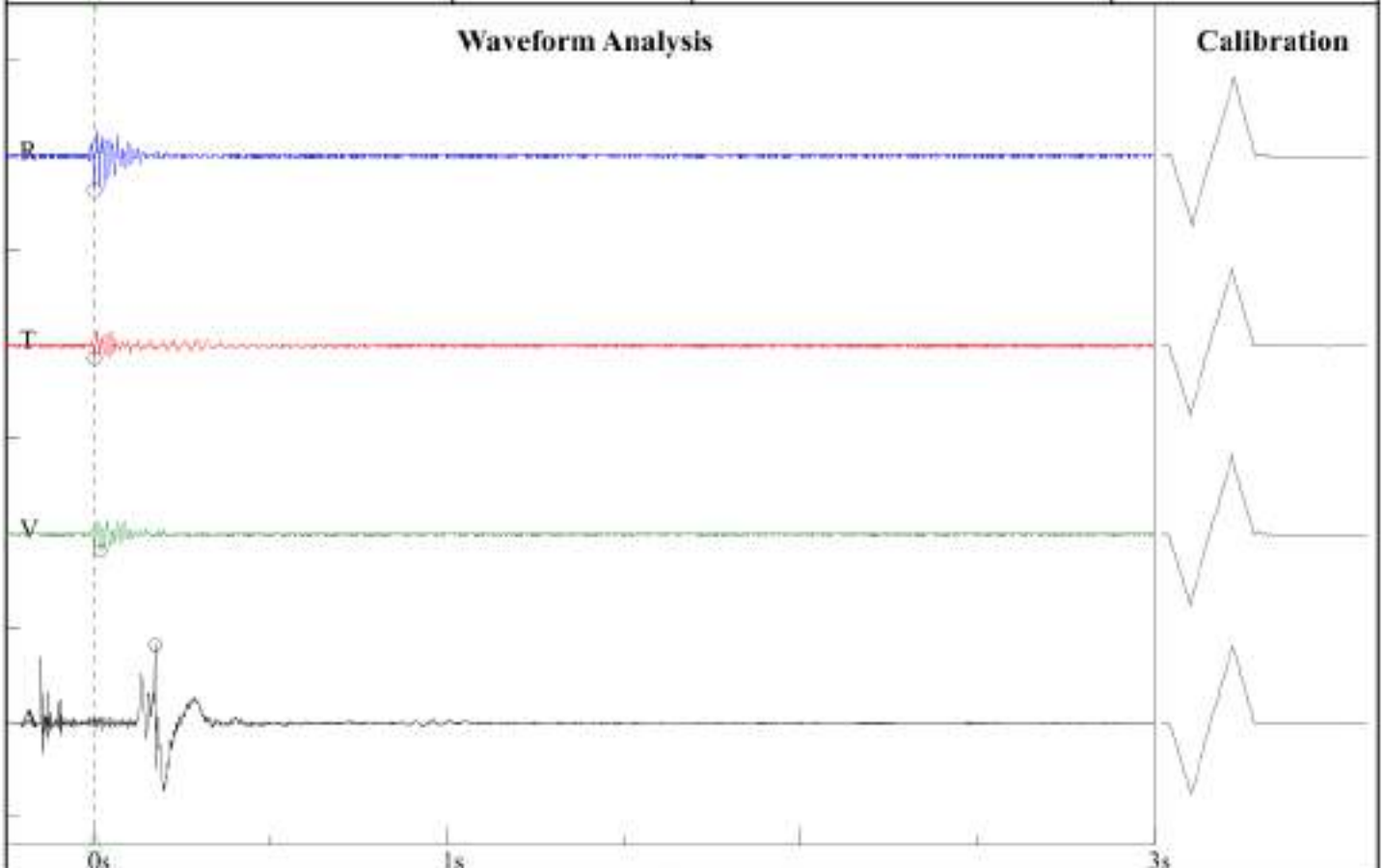
# SuperGraphics - Report

Telephone: (205)592-2488 x 23

**Company: GEO TECHNICAL MINING SOLUTIONS**  
**Location: Malayalapurza, Kerala**  
**Operator: Dr.R.Arunbalaji**  
 Notes:

**15-03-2025 at 15:41:44 Event # 49**  
 Graph: 22372  
 Last Calibration: 27-02-2025  
 Record Duration: 3 sec  
 Sample Rate: 1024/sec

Amplitudes / Frequencies	Trigger >>> Peak	Scales / Triggers	Charge / Distance
○ Radial: 1.524 mm/s @ 102.4 Hz	1.0 ms	Air Scale: .01585 kPa/div.	Wgt. Per Delay: 19 kg
○ Transverse: 0.635 mm/s @ 73.1 Hz	1.0 ms	Seismic Scale: 4.06 mm/s/div.	Distance: 50 m
○ Vertical: 0.762 mm/s @ 102.4 Hz	18.6 ms	Air Trigger: N	Scaled Distance: 11.5
○ Air: 116.3 dBL @ 23.2Hz / .013kPa	173.8 ms	Seismic Trigger: 1.27 mm/s	
▽ Vector Sum: 1.69 mm/s @ 102.4 Hz	1.0 ms		



# **ANNEXURE – 8**

## **NABL ACCREDITED LABORATORY REPORTS**



**TEST REPORT**

Report No. : EEL/LR/24/0027670/1020  
Issue Date : December 05, 2024

Issued To:  
M/s. K L R Granites  
Malayalappuzha  
Konni, Pathanamthitta.

Customer ref: - Verbal

Project: - Environmental Monitoring at Granite Building Stone Quarry of M/s. K L R Granites,  
Lease Area: 3.8717 hectares, Resurvey Block No: 20, Resurvey No: 47/1-9,  
Malayalappuzha Village, Konni Taluk, Pathanamthitta District, Kerala State.

Sample receipt form Ref. No. : SRF/W/11/1020 dt. 30.11.2024

Sampling done by: Customer

**Sample Particulars: Water sample**

Sample receiving date: November 30, 2024	Lab identification code: W/11/1020
Analysis starting date : November 30, 2024	Analysis completion date: December 04, 2024
Quantity of sample received: 1L x 1	Description of sample by the customer: Water sample (Open well)
Packaging details : Pet bottle	
Physical appearance of the sample: Clear liquid	
Tests required: For the parameters listed below, as per Drinking water specification IS 10500:2012	

**SAMPLE TESTED AS RECEIVED**

Sl. No.	Parameters	Unit	Method	Result	Requirement (Acceptable limit)
1.	pH at 25°C	---	IS 3025 (Pt 11):2022	6.8	6.5-8.5
2.	Odour	---	IS 3025 (Pt 5): 2018	Agreeable	Agreeable
3.	Colour	Hazen Units,max	IS 3025 (Pt 4):2021	3.0	5.0
4.	Turbidity	NTU,max	IS 3025 (Pt 10):1984	0.50	1.0
5.	Total Dissolved Solids	mg/l,max	IS 3025(Pt 16):2023	55	500
6.	Total Hardness as CaCO <sub>3</sub>	mg/l,max	IS 3025 (Pt 21):2009	22	200
7.	Chloride as Cl	mg/l,max	IS 3025(Pt 32):1988	15.65	250
8.	Sulphate as SO <sub>4</sub>	mg/l,max	IS 3025(Pt 24):2022	6.62	200
9.	Alkalinity as CaCO <sub>3</sub>	mg/l,max	IS 3025(Pt 23):1986	16.24	200
10.	Iron as Fe	mg/l,max	IS 3025 (Pt 53):2003	0.05	1.0
11.	Calcium as Ca	mg/l,max	IS 3025(Pt 40):1991	6.41	75
12.	Magnesium as Mg	mg/l,max	IS 3025(Pt 46):1994	1.46	30
13.	Free Residual Chlorine	mg/l,min	IS 3025 (Pt 26):2021	BDL(MDL-0.1)	0.2
14.	Fluoride as F	mg/l,max	IS 3025(Pt 60):2008	BDL(MDL-0.2)	1.0
15.	Manganese as Mn	mg/l,max	IS 3025 (Pt 2) : 2019	BDL(MDL-0.01)	0.1
16.	Zinc as Zn	mg/l,max	IS 3025 (Pt 2) : 2019	BDL(MDL-0.01)	5.0
17.	Cadmium as Cd	mg/l,max	IS 3025 (Pt 2) : 2019	BDL(MDL-0.001)	0.003
18.	Lead as Pb	mg/l,max	IS 3025 (Pt 2) : 2019	BDL(MDL-0.005)	0.01

Note:- BDL: Below Detection Limit

MDL: Minimum Detection Limit



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ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)



ISO 9001:2015, ISO 45001:2018 Certified organisation  
Approved 'A' grade Lab by Kerala State Pollution Control Board  
Accredited Lab by NABL as per ISO 17025:2017 (Cert No: TC-7114)  
Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

Page 2 of 2

Report No. : EEL/LR/24/0027670/1020

Sl. No.	Parameters	Method	Result	Requirement
1.	Total coliform bacteria/100ml	IS 15185 :2016	Absent	Shall not be detectable in any 100ml sample
2.	E.coli or thermotolerant coliform bacteria/100ml	IS 15185 :2016	Absent	Shall not be detectable in any 100ml sample

....End of Report.....

  
Susan Abraham  
Technical Manager  
Authorised Signatory  
Envirodesigns Eco Labs

  
Jesty M. T.  
Dy. Tech. Manager-Microbiology  
Authorised Signatory  
Envirodesigns Eco Labs



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ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)



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Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

**TEST REPORT**

Page 1 of 1

Report No. : EEL/LR/24/0027671/1021

Issued To:

Issue Date : December 05, 2024

M/s. K L R Granites  
Malayalappuzha  
Konni, Pathanamthitta.

Customer ref: - Verbal

Project: Environmental Monitoring at Granite Building Stone Quarry of M/s. K L R Granites,  
Lease Area: 3.8717 hectares, Resurvey Block No: 20, Resurvey No: 47/1-9,  
Malayalappuzha Village, Konni Taluk, Pathanamthitta District, Kerala State.

Sample receipt form Ref. No. : SRF/SO/11/1021 dt. 30.11.2024

Sampling done by: Customer

**Sample Particulars: Soil sample**

Sample receiving date: November 30, 2024	Lab identification code: SO/11/1021			
Analysis starting date: November 30, 2024	Analysis completion date: December 04, 2024			
Quantity of sample received: 2kg	Description of sample by the customer: Soil sample			
Packaging details: Plastic cover				
Tests required: For the parameters listed below;				
<b>SAMPLE TESTED AS RECEIVED</b>				
Sl. No.	Parameters	Unit	Method	Result
1.	Soil Type	--	SOP No. EEL/WP/SO/08	Sandy clay loam
2.	Colour	--	SOP No. EEL/WP/SO/08	Reddish brown
3.	Moisture Content	%	IS 2720(Pt 2):1973	5.35
4.	Water Holding Capacity	%	Indian Bureau of Mines Analysis of Soil: 2012	57.45
5.	Conductivity	µS/cm	IS 14767:2000	145
6.	pH	--	IS 10158:1982	7.1
7.	Organic Carbon	%	IS 2720(Pt 22):1972	0.22
8.	Total Nitrogen	%	IS 14684:1999	0.16
9.	Phosphorus	mg/kg	SOP No. EEL/WP/SO/10	194.43
10.	Potassium	mg/kg	SOP No. EEL/WP/SO/10	161.42

.....End of Report.....

Susan Abraham  
Technical Manager  
Authorised Signatory  
Envirodesigns Eco Labs



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### TEST REPORT

Page 1 of 2

Report No. : EEL/LR/24/0027672/1022

Issued To:

Issue Date : December 05, 2024

M/s. K L R Granites  
Malayalappuzha  
Konni, Pathanamthitta.

Customer ref: - Verbal

Project: - Environmental Monitoring at Granite Building Stone Quarry of M/s. K L R Granites,  
Lease Area: 3.8717 hectares, Resurvey Block No:20, Resurvey No:47/1-9,  
Malayalappuzha Village, Konni Taluk Pathanamthitta District, Kerala State.

Sample receipt form Ref. No. : SRF/A/11/1022 dt. 30.11.2024

Sampling done by: Lab field technicians

#### Sample Particulars: Ambient Air sample

Date of monitoring : November 29, 2024 to November 30, 2024  
Location of monitoring: Ambient Air Monitoring at various locations  
Location of sampler : 3.2 m above ground level  
Sampling method: Monitoring Protocol No. EEL/ENV/MP/01  
Sample receiving date : November 30, 2024  
Analysis starting date : December 02, 2024  
Lab identification code: A/11/1022  
Analysis completion date: December 04, 2024  
Tests required: For the parameters listed below, as per CPCB guidelines

#### SAMPLE TESTED AS RECEIVED

Sl. No.	Parameters	Unit	Method	Result				Limit (max)*
				A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	
1.	Particulate matter (Size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182(Pt 23):2006	69.07	59.32	66.76	60.43	100
2.	Particulate matter (Size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	CPCB guidelines 2011	28.76	23.19	25.15	24.65	60
3.	Sulphur dioxide	µg/m <sup>3</sup>	IS: 5182 (Pt 2):2001	14.76	13.16	9.74	10.51	80
4.	Nitrogen dioxide	µg/m <sup>3</sup>	IS: 5182 (Pt 6): 2006	13.16	14.08	15.39	12.46	80
5.	Carbon Monoxide (8hrs)	mg/m <sup>3</sup>	IS: 5182 (Pt 10): 1999	0.70	0.80	0.90	0.80	2.0

Note:- \* Limit applicable for 24 hour Ambient Air Quality monitoring for Industrial, Residential, Rural and other Areas as per National Ambient Air Quality Standards 2009.

A<sub>1</sub>- (North side) GPS coordinates : 9°16' 17" N 76°51' 48" E  
A<sub>2</sub>-(South side) GPS coordinates : 9°16' 07" N 76°51' 51" E  
A<sub>3</sub>- (East side) GPS coordinates : 9°16' 11" N 76°51' 54" E  
A<sub>4</sub>-(West side) GPS coordinates : 9°16' 13" N 76°51' 47." E



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ENVIRODESIGNS  
**ECO LABS**  
(Food Quality / Water / Environmental Testing Lab)



ISO 9001:2015, ISO 45001:2018 Certified organisation  
Approved 'A' grade Lab by Kerala State Pollution Control Board  
Accredited Lab by NABL as per ISO 17025:2017 (Cert No: TC-7114)  
Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

Page 2 of 2

Report No. : EEL/LR/24/0027672/1022

**Weather and Meteorological Data**

Weather condition: Partly cloudy

Meteorological Parameters	Max	Min
Temperature (°C)	30	24
Humidity (%)	91	65

**Instruments used for Monitoring**

- 1) Fine Particulate Sampler (FPS), Make & Model: Envirotech Instruments Pvt. Ltd., APM 550, ID. No. EEL/FPS/05, EEL/FPS/06, EEL/FPS/07
- 2) Fine Particulate Sampler (FPS), Make : Marvel Enviro Tech, Model: ID No.: EEL/FPS/10
- 3) Respirable Dust Sampler (RDS), Make & Model: Envirotech Instruments Pvt. Ltd., ID. No. : EEL/RDS/05, EEL/RDS/06, EEL/RDS/07
- 4) Respirable Dust Sampler (RDS), Make: Envirotech Instruments Pvt. Ltd., Model: APM 460, ID No.: EEL/RDS/10
- 5) CO ANALYZER, Make: Endee Engineers, Model :IR-50, ID NO.:EEL/COA/02
- 6.) NDIR Portable CO Gas Analyser, Make : ECO TECH Model : SERINUS 30, ID No.: EEL/COA/03

...End of Report....

  
Susan Abraham  
Technical Manager  
Authorised Signatory  
Envirodesigns Eco Labs



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**NOISE LEVEL MONITORING REPORT**

Page 1 of 2

Report No. : EEL/LR/24/0027673/1023  
Issue Date : December 05, 2024

Issued To:  
M/s. K L R Granites  
Malayalappuzha  
Konni, Pathanamthitta

Customer ref: - Verbal

Project: - Environmental Monitoring at Granite Building Stone Quarry of M/s. K L R Granites,  
Lease Area: 3.8717 hectares, Resurvey Block No:20, Resurvey No:47/1-9,  
Malayalappuzha Village, Konni Taluk Pathanamthitta District, Kerala State.

Sample receipt form Ref. No. : SRF/N/11/1023 dt. 30.11.2024

Monitoring done by: Lab field technicians

**Sample Particulars: Noise Level Monitoring**

Date of monitoring	: November 29, 2024 to November 30, 2024				
Source of monitoring	: Ambient Noise Level monitoring				
Sampling method	: Monitoring Protocol No. EEL/ENV/MP/01				
Lab identification code	: N/11/1023				
Method Used	: IS 9989:1981				
<b>Presentation of Results</b>					
Sl. No.	Time of Monitoring(Hrs)	Value Reported in dB (A) $L_{eq}$			
		N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N <sub>4</sub>
1.	10.00 – 11.00	50.6	52.8	51.8	54.8
2.	11.00 – 12.00	53.3	50.2	51.6	54.5
3.	12.00 – 13.00	54.7	51.7	50.3	51.7
4.	13.00 – 14.00	52.8	53.2	53.6	53.6
5.	14.00 – 15.00	51.6	52.1	52.9	52.7
6.	15.00 – 16.00	50.3	50.9	53.7	52.6
7.	16.00 – 17.00	52.2	51.6	52.6	53.2
8.	17.00 – 18.00	49.3	50.3	50.2	53.6
9.	18.00 – 19.00	48.6	49.8	48.7	50.5
10.	19.00 – 20.00	47.5	46.7	49.2	48.7
11.	20.00 – 21.00	46.2	47.2	47.8	47.2
12.	21.00 – 22.00	46.3	46.1	47.2	46.4
13.	22.00 – 23.00	44.1	43.2	42.9	44.7
14.	23.00 – 00.00	43.2	44.6	43.6	44.3
15.	00.00 – 01.00	40.7	41.7	42.2	43.8
16.	01.00 – 02.00	41.8	40.6	41.7	42.6
17.	02.00 – 03.00	42.5	41.5	40.6	40.7

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**ECO LABS**  
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Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

Page 2 of 2

Report No. : EEL/LR/24/0027673/1023

Sl. No.	Time of Monitoring(Hrs)	Value Reported in dB (A) $L_{eq}$			
		N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N <sub>4</sub>
18.	03.00 – 04.00	43.2	43.5	41.2	42.5
19.	04.00 – 05.00	42.6	43.1	42.8	42.6
20.	05.00 – 06.00	43.7	42.8	42.1	43.8
21.	06.00 – 07.00	47.3	46.2	46.3	48.2
22.	07.00 – 08.00	46.2	48.5	47.1	47.3
23.	08.00 – 09.00	48.2	49.8	48.2	49.5
24.	09.00 – 10.00	49.5	51.7	50.9	50.2

Note: N<sub>1</sub>- (North side) GPS coordinates : 9°16' 17" N 76°51' 48" E  
N<sub>2</sub>-(South side) GPS coordinates : 9°16' 07" N 76°51' 51" E  
N<sub>3</sub>- (East side) GPS coordinates : 9°16' 11" N 76°51' 54" E  
N<sub>4</sub>-(West side) GPS coordinates : 9°16' 13" N 76°51' 47." E

LIMIT AS PER NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000				
	Industrial Area	Commercial Area	Residential Area	Silence Zone
Day Time	75	65	55	50
Night Time	70	55	45	40

Note: Day time means - 6.00 AM to 10.00 PM Night time means - 10.00 PM to 6.00 AM

**Instrument used for Monitoring**

Name of Instrument : Sound Level Meter, Make: Cygnet, Model: 2511, ID No. : EEL/SLM/02

....End of Report.....

  
Susa Abraham  
Technical Manager  
Authorised Signatory  
Envirodesigns Eco Labs



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# **ANNEXURE – 9**

## **PHOTOGRAPHS OF THE OB DUMPS**

PHOTOGRAPHS OF THE OVERBURDEN DUMP



# **ANNEXURE – 10**

## **PHOTOGRAPHS OF THE CER IMPLEMENTATION**

**PHOTOGRAPHS OF THE CER ACTIVITY**

Activity at Govt Higher Secondary School, Konni, Pathanamthitta

- Installation of Fans and Sound System in the all class rooms.
- Construction of the wash area.
- Providing Laptop (10 Nos)















Activity at Govt. L P School, Konni, Pathanamthitta

- Providing 100 nos benches
- Providing 100 nos desk



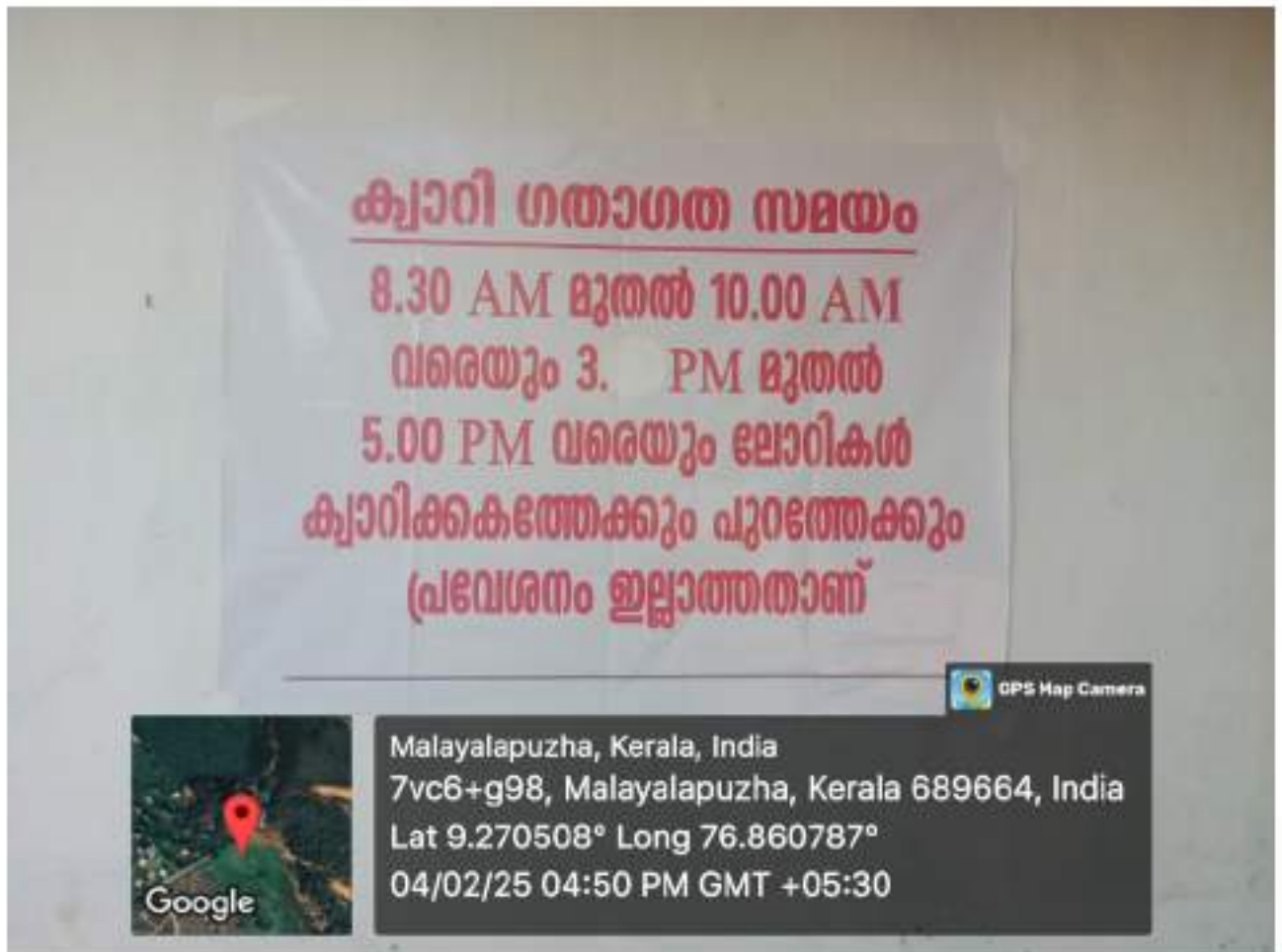




# **ANNEXURE – 11**

## **PHOTOGRAPH OF TRANSPORTATION TIMING DISPLAY BOARD**

PHOTOGRAPHS OF TRANSPORTATION TIMING DISPLAY BOARD



# **ANNEXURE – 12**

## **PHOTOGRAPHS OF RESTROOM**

PHOTOGRAPHS OF RESTROOM FOR WORKERS



# **ANNEXURE – 13**

## **EMC MoM OF MONTH SEP 2024**

# M/s. K L R Granites

27/906 Josh Building, Kothayikunnu Bypass, Thodupuzha-Post  
Idukki District, Kerala – 685584

Ph No: +91 9946555658, +91 9447055658

Ref: KLR/EC/HYCR/Sep/09/2024

Date: 15.09.2024

## Minutes of Meeting

Meeting Time: 10:00 AM – 11:00 AM

Location: M/s. K L R Granites Mine Office.

Participants & Attendance –

1. Joshy A Chemparathy – Managing Partner – Present at Office
2. Shibin Jose – Partner – Present at Office
3. A. Pitchaimuthu – Mine Foreman – Present at Office
4. Renjith – Office Manager – Present at Office
5. J. R. Vikram Krishna – Environmental Consultant (GSSV Mining Solutions) – Joined through Video Conference.

### Points Discussed with Environmental Consultant and to do task as below –

1. Make necessary arrangements for Environmental Consultant collect required data and prepare & submit the HYCR 2 – By Mr. A. Pitchaimuthu – Mine Foreman & Mr. Renjith – Office Manager.
2. Garland drains have to be re-fubished and maintained free from debris – By Mr. Shibin Jose – Partner
3. Review the sapling order and indent of 50 Nos for Month Oct 2024 – By Mr. Joshy A Chemparathy – Managing Partner
4. Slope Stability of Dump needs to be checked for its effectivitiness and parapet walls have to be strengthened with weep holes – By Mr. A. Pitchaimuthu – Mine Foreman & Mr. Shibin Jose – Partner.

Yours faithfully,



Joshy A Chemparathy  
Authorized Signatory

# **ANNEXURE – 14**

## **PHOTOGRAPHS OF BLAST FACE**

**PHOTOGRAPHS OF USED TYERS USED AS BLAST MATS**



# **ANNEXURE – 15**

**NOTARIZED AFFIDAVIT THAT  
ALL THE CONDITIONS  
STIPULATED IN THE EC SHALL  
BE SCRUPULOUSLY FOLLOWED.**

भारतीय गैर न्यायिक

पचास  
रुपये  
₹.50



FIFTY  
RUPEES  
Rs.50

INDIA NON JUDICIAL

കേരളം കേരल KERALA

CU 893338

AFFIDAVIT

I Mr. **Joshy A. Chembarathy** S/o Augustin, (Holder of Aadhaar Card No.3563 8716 9714) Managing Partner, KLR Granites, 27/906 Josh Building Kothayikunnu Bypass Thodupuzha P. O, Idukki, Kerala-685584 hereby affirm and confirm as follows:

Deponent: Mr. **Joshy A. Chembarathy**



ADV. G. SURESH KUMAR  
DISTRICT NOTARY  
ADOOR / PATHANAMTHITTA  
KERALA, INDIA

ADV. G. SURESH KUMAR  
DISTRICT NOTARY  
ADOOR / PATHANAMTHITTA  
KERALA, INDIA



10  
22.5.24

₹ 50 രൂപയ്ക്ക് മാത്രം  
ഉപയോഗിക്കുന്നതിനായി,  
K.L.R. ഗ്രാനൈറ്റ്സ് പ്രൈവറ്റ് ലിമിറ്റഡ്,  
കോട്ടയം, തൃശ്ശൂർ ജില്ല, കേരളം.

ADOOR VENDOR  
SREEJA. S



കേരളം കേരल KERALA

CU 893339

-2-

1. That my quarry project is situated at Block No. 20, Re- survey No. 47/1-9 in Malayalapuzha village, Konni Taluk, Pathanamthitta Dist. Kerala State.

Deponent: Mr. Joshy A. Chembaruthy



100.  
22.5.24

Handwritten signature in green ink: *28/05/24*  
G. SURESH KUMAR  
DISTRICT NOTARY  
ADOOR / PATHANAMTHITTA  
KERALA, INDIA  
Handwritten text in Malayalam: '50 ഭൂമിയിലെ ക്വറി പ്രോജക്ട്' (50 acres quarry project), 'K.L.R. ഉപജ്ഞാത' (K.L.R. beneficiary), '22.5.24' (22.5.24).  
Blue stamp: 'ADOOR V. SREEJA S' with a signature.



കേരളം കേരള KERALA

CU 893340

-3-

2 That, the Eco-restoration including the mine closure plan will be done at my expenses.

Deponent: Mr. Joshy A. Chembarathy



G. SURESH KUMAR  
DISTRICT NOTARY  
ADOOR / PATHANAMTHITTA  
KERALA, INDIA



No  
22.5 24

RS 50 ഭരണത്തിനായി ചെയ്യാൻ  
R.L.R. ഉപയോഗിച്ച്  
2024

ADOOR VEDER  
SREE 1 5

# भारतीय गैर न्यायिक

पचास  
रुपये  
रु. 50



FIFTY  
RUPEES  
Rs. 50

## INDIA NON JUDICIAL

കേരളം കേരल KERALA

CU 893341

-4-

### Verification:

Verified that my above statement are true to the best of my knowledge and no materials have been concealed there in.

Place: <sup>ADDOOR</sup> Thodupuzha  
Date: <sup>25.05.2024</sup> 22-05-2024

Deponent: Mr. Joshy A. Chembaruthy

**ADV. G. SURESH KUMAR**  
DISTRICT NOTARY  
ADDOOR / PATHANAMTHITTA  
KERALA, INDIA



**ADV. G. SURESH KUMAR**  
DISTRICT NOTARY  
ADDOOR / PATHANAMTHITTA  
KERALA, INDIA



NO  
22-5-24

50. ഭോഷ് 26/05/2024  
K.L.R. അബ്ദുൽ ഖാദർ

**ADDOOR VENDOR**  
SRE

# **ANNEXURE – 16**

## **COPIES OF ALL STATUTORY CLEARANCES**



കോന്നി ഗ്രാമപഞ്ചായത്തിൽ നിന്നും  
 1994ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും  
 അതനുസരിച്ചുള്ള ചട്ടങ്ങളും അനുസരിച്ച്  
 ഹോളിയിംഗ്, സ്വാപാദങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന  
**ലൈസൻസ്**

നമ്പർ : 408371/RPTL20/GPO/2024/1542(129)

തീയതി : 18.03.2024

ലൈസൻസിയുടെ പേരും തൊഴിലാളിയുടെ പേരും	അമ്മി.എം.പൊന്നമ്മ, ഡോ.നരയിംഗ് പാർട്ടിനാർ, മ.ക.എൽ.ആർ.ഗ്രാമപഞ്ചായത്ത്, മുതലമുടക്കം.പി.ഒ	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	മ.ക.എൽ.ആർ.ഗ്രാമപഞ്ചായത്ത്, പൊങ്ങ	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കുറ്റി - നടുവേലി	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	സർവ്വേ നം: 47/1-9	
ലൈസൻസ് കാലാവധി	01-04-2024 മുതൽ 31-03-2025 വരെ	
ഇടപാടാക്കിയ ലൈസൻസ് ഫീസ്	₹15000	റസിപ്പ് നം: 1230108594 തീയതി: 18-03-2024
അടച്ചിടലും	₹1250 + ₹1250	റസിപ്പ് നം: 1230108594 തീയതി: 18-03-2024
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരീക്ഷകപത്രങ്ങളുടെ വിവരങ്ങൾ (നമ്പർ, തീയതി, കാലാവധി, നൽകിയ അധികാരസ്ഥാനം)	1)PCB Certificate ( File No: KSPCB/PT/ICO/10045668/2023 dtd 21.10.2023 , Certificate Valid UPTo 18.04.2027) 2)Form LE-3 Explosive Licence ( Cert valid upto 31.03.2028, Survey No: 47/1-9) 3) Letter Head - Company Minutes Copy 4)EC ( No : 2073/EC1/2022/SEIAA dtd 06.10.2023 ,Valid Upto for 5 year ) 5) Partnership deed 6) Survey Map 7) Mining & geology cert ( File No : DMG/631/2022-M2 dtd 19.04.2022 )	

Document verified by GPO T.K. 18/03/2024 gpo@kerala.gov.in  
 Digitally signed by D. U T K  
 Date: 2024.03.18 14:45 GMT-07:00  
 കോന്നി ഗ്രാമപഞ്ചായത്ത്, കോന്നി



**FILE NO : KSPCB/PT/ICO/10045668/2023**

**Date of issue : 21-10-2023**



**KERALA STATE POLLUTION CONTROL BOARD**

**CONSENT TO**

**OPERATE/AUTHORISATION/REGISTRATION**

**ISSUED UNDER**

The Water (Prevention & Control of Pollution) Act, 1974

The Air (Prevention & Control of Pollution) Act, 1981

and

The Environment (Protection) Act, 1986

**As per Application No. : 10045668**

**Dated : 07-10-2023**

**To**

**K L R GRANITES**

**CHENGARA P.O.,MALAYALAPUZHA ERAM,PATHANAMTHITTA**

**Consent No. : KSPCB/PT/ICO/10045668/2023**

**Valid Upto : 18-04-2027**

## I. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit

1	<b>VALIDITY</b>	18-04-2027
2	Name and Address of the establishment	K L R GRANITES CHENGARA P.O.,MALAYALAPUZHA ERAM,PATHANAMTHITTA E-Mail : 9946555658 Contact Number : 9946555658
3	Occupier Details	JOSY A CHEMPARATHY , (Managing Partner, M/s. K L R Granites,27/906 Josh Building, Kothayikunnu Bypass , Thodupuzha-Post, Idukki), Chemparathy, Thodupuzha, Muthalakodam, Idukki, PIN - 685605 E-Mail : chemparathyjoshy@gmail.com Contact Number :
4	Local Body	KONNI
5	Survey Number	47/1-9
6	Village	Malayalappuzha
7	Taluk	Konni
8	District	PATHANAMTHITTA
9	Capital Investment(Rs in Lakhs)	758.75
10	Scale	Medium
11	Category	RED
12	Annual fee(Rs)	62900.0
	Total Fee remitted(Rs)	408850.0
13	Activity	Granite Building Stone -349920.23 Metric Tonnes per Annum, Extend of Land (in Hectare)=3.8717
14	Machinery details	Total 249 HP (Tractor with compressor 50 HP (2 Nos), Excavator with Breaker 74 HP, Excavator with loader 75 HP)

## GENERAL CONDITIONS

1. This Consent is issued based on the Judgement dated 25-10-21 of the Honourable Supreme Court of India in CA no. 6273 of 2021 and connected matters, order dated 14-12-2021 of the Honourable Supreme Court in MA no. 1904 of 2021, Judgement dated 10-11-2021 of the Honourable High Court of Kerala in WP(C) 2773 of 2021 and Judgement dated 10-12-2021 of the Honourable High Court of Kerala in WP(C) 27178 of 2021.
2. This Consent is issued subject to any order passed by the Honourable Supreme Court, Honourable National Green Tribunal, Honourable High Court of Kerala in connected matters.
3. The consent unless withdrawn earlier and subject to condition no. 1 & 2 shall be valid up to 18/04/2027. For renewal of consent, application may be submitted via online 2 months in advance of expiry of validity date.
4. Quarrying shall be done only within the area marked in the approved location plan attached. No change, deviation or alteration that may affect the environment, extent and location of quarry shall be made. Any change in particulars furnished in the application/the identity of the occupier/ authorized agent is to be intimated to the Board forthwith.
5. A minimum distance of 50 m shall be kept from the boundary of quarry area to residential buildings, places of worship, public buildings, public road having vehicular traffic, river or lake, railway line and bridges.
6. The applicant shall put up sign boards near the main entrance of the plant to display consent number & validity.
7. Suitable species of trees and curtain plants shall be planted and maintained within and along the periphery of the premises, forming a green belt to improve the environment.
8. Fencing shall be provided around the boundary of quarry and shall be maintained properly.
9. After completion of excavation at any site, the abandoned quarry shall be utilized for rain water harvesting with protective barriers/ any other suitable approved purpose or may be reclaimed as per specification.
10. Quarrying activity shall not be carried out during night hours.
11.  $PM_{10}$  in ambient air at the boundary of quarry shall not exceed 100 micrograms per cubic meter and  $PM_{2.5}$  in ambient air at the boundary shall not exceed 60 micrograms per cubic meter .
12. The Sound level ( $Leq$ ) at 1m outside the boundary of the site shall not exceed the ambient noise standards applicable to the adjoining areas.
13. The consent issued from the Board shall be valid only for a period when all other statutory or necessary clearances from other concerned authorities are valid.
14. The applicant shall comply with the instructions that the Board may issue from time to time regarding the prevention and control of Air, Water, Land and Sound Pollution.
15. Regular wetting of the roads in the premises of the quarry and approach roads near the quarry shall be done for avoiding excessive dust emission within and outside the boundary of the unit.

16. Products shall be transported with proper cover and/or after wetting to prevent spreading of dust.

Digitally signed by PRAVITHAMOL T N  
Date: 2023.10.21 17:17:23 IST

SIGNATURE OF ISSUING AUTHORITY  
ENVIRONMENTAL ENGINEER

**To**

M/s K L R GRANITES

CHENGARA P.O. MALAYALAPUZHA ERAM PATHANAMTHITTA

E-Mail : 9946555658

Contact Number : 9946555658

1.This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to [www.keralapcbonline.com](http://www.keralapcbonline.com) and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Phoenix website.



## KERALA STATE POLLUTION CONTROL BOARD

FILE NO. : KSPCB/PT/ICO/10078440/VAR/2024

Date of issue : 13-09-2024

### CONSENT VARIATION ORDER

**Consent No : KSPCB/PT/ICO/10078440/VAR/2024**

**Valid up to : 18-04-2027**

#### Reference

**1.Consent No: KSPCB/PT/ICO/10045668/2023, dated 21-10-2023 ,Valid Up to : 18-04-2027**

**2.Online application Number 10078440, dated 06/08/2024**

The Integrated Consent to Operate issued as per reference above to M/s **K L R GRANITES** , CHENGARA P.O. MALAYALAPUZHA ERAM PATHANAMTHITTA is hereby modified & issued to **JOSHY A CHEMPARATHY**.The consent cited under reference are integral part of this consent variation order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

#### 1.GENERAL

Sl.No	Item	Description
1	Machinery Details	Tractor with Compressor -160 HP (2 Nos), Excavator with breaker 316 HP (2 Nos), Excavator with loader-300 HP(3 Nos), Box Compressor-50 HP, Total-826 HP

All other conditions of the Integrated Consent to Operate issued as per reference (1) above remain unchanged.

Digitally signed by PRAVITHAMOL T N  
Date: 2024.09.13 15:19:56 IST

SIGNATURE OF ISSUING AUTHORITY

ENVIRONMENTAL ENGINEER



**To**

M/s K L R GRANITES  
CHENGARA P.O. MALAYALAPUZHA ERAM PATHANAMTHITTA  
E-Mail : 9946555658  
Contact Number :9946555658.

- 1.This digitally signed document is legally valid as per the Information Technology Act 2000
2. For verifying this document please go to [www.keralapcbonline.com](http://www.keralapcbonline.com) and search using Certificate Number/Name of the unit/Application Number in "Certificate Verification" link in the home page of the Board's Phoenix website.

**अनुज्ञापि प्ररूप एल. ई.-3 | LICENCE FORM LE-3**

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)  
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञापि  
Licence to possess : (c) for use,explosives of class 1, 2,3,4,5,6 or 7 in a magazine

अनुज्ञापि सं. (Licence No.) : E/SC/KL/22/1764(E50911)

वार्षिक फीस रूपए (Annual Fee Rs): 2400/-

I. Licence is hereby granted to

M/s KLR GRANITES (अधिभोगी / Occupier : **Joshy A. Chemparathy**), Joshi A. Chemparathy (Mg. Partner), No.27/906, Josh Building, Kothayikkunnu Bye Pass, Town/Village - Thodupuzha, District-IDUKKI, State-Kerala, Pincode - 689692



को अनुज्ञापि अनुदत्त की जाती है।

2. अनुज्ञापिधारी की प्रास्थिति | Status of licensee : **Partnership Firm**

3. अनुज्ञापि निम्नलिखित प्रयोजनों के लिए विधिमाम्य है।

Licence is valid only for the following purpose.

possess for use of Nitrate mixture - Slurry and Emulsion Explosives, Safety Fuse, Electric Detonators, Ordinary Detonator, - के उपयोग के लिए

4. अनुज्ञापि विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमाम्य है।

Licence is valid for the following kinds and quantity of explosives: - (क) (a)

क्र. सं.	नाम और विवरण	वर्ग और प्रभाग	उप-प्रभाग	मात्रा किसी एक समय में
Sr. No.	Name and Description	Class & Division	Sub-division	Quantity at any one time
1.	Nitrate mixture - Slurry and Emulsion Explosives	2,0	0	100 Kg.
2.	Safety Fuse	6,1	0	2000 Mtrs
3.	Electric Detonators	6,3	0	1500 Nos.
4.	Ordinary Detonator	6,3	0	2000 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञापि के लिए]

(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)]:

20 times as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापि परिसर की पुष्टि होती है।

The licensed premises shall conform to the following drawing(s):

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1764(E50911)

दिनांक (Dated) 20/09/2023

6. अनुज्ञापि परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:

Survey No. 581/1-4, ग्राम (Town/Village) : **Konni-thazham village, Kuzhancherry taluk**

पुलिस थाना (Police Station) : **Koani**

जिला (District) : **PATHANAMTHITTA** राज्य (State) : **Kerala** पिनकोड (Pincode) : **689692**

दूरभाष (Phone) : ई.मेल (E-Mail)

फैक्स (Fax)

7. अनुज्ञापि परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।

The licensed premises consist of following facilities.

two mini magazines of stone masonry construction

8. अनुज्ञापि समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।

The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2004 framed there under and the conditions, additional conditions and the following Annexures.

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निरमाण संबंधी और अन्य विवरण दर्शित करते हुए)।

Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

2. अनुज्ञापि प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञापि की शर्तों और अतिरिक्त शर्तों।

Conditions and Additional Conditions of this licence signed by the licensing authority.

3. दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञापि तारीख **31 मार्च 2028** तक विधिमाम्य रहेगी। This licence shall remain valid till **31st day of March 2028**.

यह अनुज्ञापि, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञापि की शर्तों का अधिकमण करने या यदि अनुज्ञापि परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।

This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 15/09/2023

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives  
South Circle, Chennai

**Amendments :**

- Change in Authorized Signatory/Occupier/Partners/Directors dated : 15/09/2023
- Change in Postal Address dated : 15/09/2023
- Amendment in Drawings/Facilities/Premises dated : 15/09/2023
- Change in Postal Address dated : 18/09/2023
- Amendment in Drawings/Facilities/Premises dated : 20/09/2023

**Transfers :**

- Change in Licensee Name/Address/Status dated : 15/09/2023

नवीनीकरण के पृष्ठांकन के लिए स्थान  
Space for Endorsement of Renewal


नवीकरण की तारीख  
Date of Renewal

समाप्ति की तारीख  
Date of Expiry

अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प  
Signature of licensing authority and stamp

**कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दंडित अपराध होगा।**  
**Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.**

**Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.**

	<p>भारत सरकार Govt. of India श्रम एवं रोजगार मंत्रालय Ministry of Labour &amp; Employment खान सुरक्षा महाविदेशालय Directorate-General of Mines Safety</p>	
NO: 51252476 SZ Bengaluru Region Perm 2024 265912		Date: 11/06/2024

प्रेषक / From,  
खान सुरक्षा निदेशक / Director of Mines Safety,  
बेंगलूरु क्षेत्र, बेंगलूरु / Bengaluru Region, Bengaluru-560071.

सेवा में /To,  
**Shri: Pitchaimuthu A,**  
Manager: KLR Granites (QL.No.734/2023-24/DMG/631/2022 dated 29.02.2024, LIN: 2-8721-0559-8; Mine Code: 51252476),  
Owner: Shri Joshy A Chemparathy,  
Extent of 3-8717 Hectares Sy. No: 47/1-9 at Malayalappuzha Village, Konni Taluk, Pathanamthitta District, Kerala.

**विषय /Subject:-Authorisation to work as Manager under Regulation 34(6) of the Metalliferous Mines Regulations, 1961, in favour of Shri Pitchaimuthu A, Foreman's Certificate of Competency (Restricted).**

महोदय/Sir,

Refer to your online application ID: 51252476|SZ|Bengaluru Region|Perm|2024|265912 Dated 28.05.2024 on the above subject. The matter has since been examined in the light of what has been stated in your application.

In the exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director General of Mines Safety) under the provisions of Regulation 34(6) of the Metalliferous Mines Regulations, 1961 and by virtue of the authorization granted to me by the Chief Inspector of Mines under Section 6(1) of the Mines Act, 1952, I, do hereby authorize **Shri Pitchaimuthu A, Holder of Foreman's Certificate of Competency (Restricted), Certificate No: FR/4790, dated 22.08.2018 to work as a manager at KLR Granites (QL.No.734/2023-24/DMG/631/2022 dated 29.02.2024, LIN:2-8721-0559-8; Mine Code:51252476) of Owner: Shri Joshy A Chemparathy, for an extent of 3-8717 Hectares, in Sy. No:47/1-9 at Malayalappuzha Village, Chengara Post, Konni Taluk, Pathanamthitta District, Kerala , for a period of one year from the date of issue of this letter or validity of Statutory Certificate, whichever is earlier, subject to strict compliance of conditions mentioned below:**

1. Manager shall not take up any appointment in any capacity whatsoever in another mine.
2. The Manager shall not allow any person for employment in the mine unless such persons have been imparted initial / periodic vocational training as required under Rule 6 to 9 and on-the-job training(s) as required under Rule 12 to 15 of the Mines Vocational Training Rules, 1966.
3. Every competent person in the mine shall be authorised for which he has been employed and he shall be issued with a certified copy of the statutory provisions related to his work as required under Reg.39(2) of the Metalliferous Mines Regulations, 1961.
4. Adequate number of Supervisors (Mining Mate Certificate or above) shall be appointed in each working shift to assist the Manager.

5. No deep hole drilling and blasting shall be conducted unless written permission has been obtained under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961.
6. No Heavy Earth Moving Machinery (HEMM) shall be deployed without obtaining written permission under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961.
7. As required under Regulation 160(4) of the Metalliferous Mines Regulations, 1961, no person whose wages/payment depends on the amount of mineral, rock or debris obtained by firing shots, shall be appointed to perform the duties of a blaster. No outside person shall perform the duties of the blaster, and it shall be done only by statutory personnel appointed at the mine. Thus, no agreement for blasting can be made with the explosive supplier or with any other person/firm.
8. The provisions of Regulation 164(1A)(c) and 164(1B)(a) of the Metalliferous Mines Regulations, 1961 shall be strictly complied with in case any public road or railway or permanent building/structure not belonging to the owner is/are situated within the danger zone.
9. The total amount of explosive used per day shall not exceed 75 kg, and not more than 50 shots shall be made in a day with electric detonators. [ *If deep hole blasting permission is granted, the explosives quantity may be increased to not more than 500 kg and the number of shots may be as per the study made by the manager as per Reg. 160(5)* ]
10. No underground workings shall be made.
11. The average daily employment of persons at the mine shall not exceed 75 in all.
12. Wet drilling shall be done by directing a water jet on to the tip of the cutting edge of the ergonomically designed drill machine to **prevent dreaded disease silicosis. The jack-hammer drill machines shall be ergonomically designed to minimise harm from vibration and noise** .
13. Airborne dust survey as provided in Regulation 124(3)(a) shall be done to ascertain the concentration of respirable dust in the air and also to know the percentage of free silica in the dust generated at the mine.
14. No mining operations shall be conducted beyond daylight hours.
15. Above permission shall stand cancelled as soon as the person, to whom this authorisation is being granted, leaves the services of the mine under reference. However, the Manager shall not vacate his office without giving due notice in writing to the owner or agent at least 30 days before the day on which he wishes to vacate his office . A copy of such notice shall be submitted to the Director of Mines Safety, Bengaluru Region.
16. *On or before the 01<sup>st</sup> day of February in every year, Owner/Agent/Manager shall submit Annual Return in respect of the preceding calendar year ONLINE through ShramSuvidha portal < <https://return.shramsuvudha.gov.in/user/login>>and <[www.dgms.gov.in](http://www.dgms.gov.in)>*.
17. All applications for permissions as required under the Mines Act, 1952 and its subordinate legislation shall be submitted ONLINE through website-<[www.dgms.gov.in](http://www.dgms.gov.in)>.
18. For blasting only well-insulated cable of sufficient length to permit blaster to take proper shelter shall be used.
19. Whereby reason of absence or for any other reason, the Manager is unable to exercise daily personal, supervision, a person holding at least **valid Foreman's Certificate** as substitute shall be authorised to act as Manager of the mine in compliance with Regulation 34(7) (a) (1) and if no such qualified person is available, the mine workings should be kept suspended during such absence of the Manager. Attention is drawn to Regulation 34(7) (a) and (b) in respect of the period of authorisation permitted, an intimation of authorisation to Director General of Mines Safety, Dhanbad and the Director of Mines Safety, Bengaluru Region.
20. The above authorisation shall stand cancelled as soon as the person to whom it is being granted leaves the service at the mine under reference.
21. Intimation about the termination of Manager as a result of his Transfer/Termination of Service/Resignation shall also be submitted in Form I of the First Schedule immediately.
22. No Ore dressing /handling/processing plant is attached with the mine.
23. Notwithstanding anything contained above, the authorisation may be withdrawn at any time as provided in the aforesaid Regulation.
24. If at any time anyone of the conditions, subject to which this authorisation has been granted, is violated or not complied with, this authorisation shall be deemed to have revoked with immediate effect.
25. In the event of any change in the circumstances connected with this authorisation, intimation thereof shall be sent to this Directorate.
26. This authorisation is being granted without prejudice to any other statutory provisions, which may be or may become applicable at any time.
27. This authorisation may be amended, modified or withdrawn at any time if considered necessary in the interest of safety.

28. Please note that this authorisation is not likely to be renewed unless the Manager's certificate is revalidated.

29. A hard copy of this permission shall be kept at the manager office for reference and strict compliance.

Your Faithfully

*Saket Bharati*

SAKET BHARATI (DIRECTOR - BENGALURU REGION)

THIS IS A SYSTEM GENERATED DOCUMENT, DOES NOT REQUIRE ANY SIGNATURE.

 <p>भारत सरकार Govt. of India श्रम एवं रोजगार मंत्रालय Ministry of Labour &amp; Employment खान सुरक्षा महानिदेशालय Directorate-General of Mines Safety</p> 
<p>NO: 51252476 SZ Bengaluru Region Perm 2024 270331</p> <p style="text-align: right;">Date: 21/12/2024</p>

प्रेषक/From,  
खान सुरक्षा निदेशक/The Director of Mines Safety,  
बेंगलूरु क्षेत्र, बेंगलूरु./Bengaluru Region, Bengaluru-560071.

सेवा में/To  
The Owner  
M/s KLR Granites (QL No: 734/2023-24/DMG/631/2022-M2 Dated 29.02.2024; Mine Code: 51252476;  
LIN: 2-8721-0559-8),  
(Managing Partner: Shri Joshy A Chemparathy)  
Re-Survey Nos: 47/1-9, lease area 3.8717 Hectares in Malayalapuzha Village, Konni Taluk, Pathanamthitta  
District, Kerala.

**विषय/ Subject: Permission under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961, to work with Heavy Earth Moving Machinery (HEMM) without deep Hole Drilling & Blasting at M/s KLR Granites (QL No: 734/2023-24/DMG/631/2022-M2 Dated 29.02.2024; Mine Code: 51252476; LIN: 2-8721-0559-8) belonging to M/s KLR Granites (Managing Partner:Shri Joshy A Chemparathy) .**

महोदय/ Sir,

Refer to your online application no: 51252476|SZ|Bengaluru Region|Perm|2024|270331 dated 20/11/2024, and offline documents submitted vide no. nil dated 09.11.2024, enclosing there with surface plan no: 1/KERALA/PATHANAMTHITTA/JOSHYCHEMPARATHY/24-25 Dated 18/10/2024 and Plan no: 2/KERALA/PATHANAMTHITTA/JOSHYCHEMPARATHY/24-25 Dated 18/10/2024 on the above subject. The matter has since been examined in the light of what has been stated in your application under reference and related documents including the surface plan.

In exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director General of Mines Safety) under the provisions of clause (2)(b) of Regulation 106 of the Metalliferous Mines Regulations, 1961 and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director General of Mines Safety) under Section 6(1) of the Mines Act, 1952, I hereby permit to work with **Heavy Earth Moving Machinery (HEMM) without Deep Hole Drilling & Blasting within leasehold area at M/s KLR Granites (QL No: 734/2023-24/DMG/631/2022-M2 Dated 29.02.2024; Mine Code: 51252476; LIN: 2-8721-0559-8) belonging to Managing Partner: Shri Joshy A Chemparathy in the area demarcated as BP1, BP2, BP3, BP4, BP5, BP6, BP7, BP8, BP9, BP10, BP1 as shown in the surface plan no:1/KERALA/PATHANAMTHITTA/JOSHYCHEMPARATHY/24-25 Dated 18/10/2024 and Plan no:2/KERALA/PATHANAMTHITTA/JOSHYCHEMPARATHY/24-25 Dated 18/10/2024** subject to the following conditions being strictly complied with;

#### 1.0 GENERAL:

1.1 Except where otherwise provided for in this permission, all provisions of the Metalliferous Mines Regulations, 1961 relating to opencast workings, use of explosives and use of machinery shall be strictly complied with.

1.2 The mine shall be under a sole manager holding prescribed qualifications under the Metalliferous Mines Regulations, 1961, appointed by the owner or agent of the mine for the overall management, control, supervision and direction of the mine.

**1.3 Mine shall only be worked in daylight hours.**

1.4 No person shall be employed in the mine unless he has been imparted vocational (V.T.) training as required under Rule 6 to 9 and on-the-job training(s) as required under Rule 13 to 15 of the Mines Vocational Training Rules, 1966.

1.5 The details of all persons including contractual persons employed in the mine shall be entered in Form 'A' as required under Section 48 of the Mines Act, 1952 and Rule 77 of the Mines Rules, 1955 and kept maintained in the office of the mine.

1.6 No person shall be employed in the mine unless the attendance is recorded in registers. The mine management may maintain such attendance in electronic form as stated in the Gazette Notification Vide No: G.S.R. 154(E) dated 21st February 2017 published in EXTRAORDINARY PART II—Section 3—Sub-section (i) under Ease of Compliance to Maintain Registers under various Labour Laws Rules, 2017 which shall be accessible in the office of the mine.

1.7 Hours and limitation of employment in respect of above ground and opencast workings as prescribed in Section 28 to 35 of the Mines Act, 1952 shall be applicable for contractual employee However to ensure constant statutory supervision in the mine, the shift / relay timings of contractor's workers and departmental workers shall be the same.

1.8 The management shall indemnify the occupants/owners of the houses/ dwellings/ buildings or public authority of any structure(s), if any, against the dangers to those properties or injury to them or other persons arising out of operations conducted under this permission.

1.9 (a) No deep hole blasting shall be carried out at the mine.

(b) All other blasting operations at the mine shall be carried out strictly in accordance to the provisions of Regulations 164 of Metalliferous Mines Regulations, 1961.

1.10 No blasting shall be conducted using SME/SMS/ANFO explosive without having valid permission obtained under Regulation 155(1) & 162(5) of Metalliferous Mines Regulations, 1961.

1.11 This Directorate shall be informed as soon as the mining operations are commenced in accordance with the above relaxation. Intimation about completion of the mining operation shall also be sent promptly and in any case not later than one month thereafter.

**2.0 OPENCAST WORKING:**

**2.1 HEIGHT & WIDTH OF BENCHES:**

**2.1.1 The height of benches in overburden, ore body or other rock formation shall not be more than 6.0m or maximum digging height of the smallest machine used for digging, excavation or removal, whichever is less.**

**2.1.2 Width of any bench shall not be less than;**

**(a) width of the widest machine plying on the bench plus 2 m, or**

**(b) if dumpers ply on the bench, 3 times the width of the dumper, or**

**(c) the height of the bench, whichever is more.**

**2.1.3 When persons are employed at the working face, adequate precautions shall be taken to ensure their safety by dressing the sides of the bench.**

**2.1.4 Formation of benches shall be done from top downwards.**

**2.1.5 No person/s shall be engaged on work or allowed to travel close to high sides / benches, from where likely to fall more than 1.8 meters vertically down, unless the personnel is / were provided with and uses a safety belt/full body harness or a rope or lifeline.**

**2.1.6 Sufficient number of safety belts/full body harness shall be available at the site and shall be ensured for use of the same.**

**2.2 PRECAUTIONS AGAINST SURFACE STRUCTURES:**

2.2.1 No working shall be made or extended to any point within 45 m of any railway or of any public works or of any public road or building or of other permanent structure not belonging to the owner of the mine, in any direction of the mine without the prior permission from this Directorate.

2.2.2 Record of each round of blast giving all details of blasting parameters, ground vibrations, fly rocks etc shall be maintained in a bound paged book kept for the purpose which shall be signed & dated by the manager.

2.2.3 Provisions of DGMS (Tech) Circular No.7 of 1997 (Damage of structures due to blast induced ground vibrations) & 8 of 1982 (Danger from blasting operations in opencast workings), and other circulars/Instructions issued from time to time for the safe operating procedure shall be strictly complied.

**2.3 FENCING AROUND OPENCAST WORKING:**

2.3.1 The top edge of the opencast workings whether moving, abandoned or others shall be kept fenced with wire rope strands or barbed wire, supported by (movable) posts of timber, iron or concrete. The gap between the adjacent rope strands or wires shall not be more than 0.30 meters and bottom most member shall not be more than 0.25 meters and the top most member shall not be less than 1.0 meters from ground level.

2.3.2 At the finishing stage, opencast workings shall be fenced with masonry wall using cement concrete not less than 0.40 meters thick and not less than 1.5 meters high, with a parapet top.

**2.4 ROADS FOR TIPPERS / AND DUMPERS ETC:**

2.4.1 All roads for tippers / dumpers or other mobile machinery shall be maintained in good condition.

2.4.2 Wherever practicable, all roads from the opencast workings shall be arranged to provide one-way traffic. Where one-way traffic it is not practicable, no road shall be of width less than three times plus 5m width of the largest vehicle plying on road.

**2.4.3 All corner and bends shall be made in such a way that operator of tippers and dumpers have clear view of distance of not less than 3 times the braking distance of largest HEMM working at 40Km/hour.**

2.4.4 Where it is not possible to ensure a visibility for a distance as mentioned in clause (2.4.3), there shall be provided with two roads, each having width not less than 2 times plus 3m of largest vehicle plying on the road with a strong road divider at center with adequate lighting and reflector along the divider.

2.4.5 Where any road existing above level of surrounding area it shall be provided with strong parapet wall/embankment of following dimensions:

(a) Width at top-not less than 1 m.

(b) Width at bottom-not less than 2.5 m.

(c) The height not less than the diameter of the tyre of largest vehicle plying on the road. It may be noted that just dumping of mud or OB shall not be treated as strong parapet wall.

2.4.6 No road shall have gradient more than 1 in 16. However, the ramps with 1 in 10 gradient shall not be for more than 10m at one stretch.

**3.0 SUPERVISION :**

3.1 A person possessing First Class Manager's Certificate of Competency or a person possessing authorisation under Regulation 34 of the Metalliferous Mines Regulations, 1961, from this Directorate shall be appointed as the Manager of the mine.

3.1.1 This permission shall be deemed to be revoked as soon as the appointed manager ceases to work at the mine or tender resignation or terminated from service or the authorization granted under regulation 34 (6) of the Metalliferous Mines Regulations, 1961 is expired.

3.1.2 Mine shall not be worked and use of HEMM shall be suspended in the absence of manager with aforesaid qualification.

3.1.3 An Engineer or other competent person depending upon the scale of the machinery shall be appointed to hold general charge of the machinery and to be responsible for its installation maintenance and safe working. He shall be assisted by sufficient number of competent persons.

3.1.4 During every production shift / relay, the opencast workings shall be placed under the charge of an assistant manager (Second Class) / Foreman and during maintenance shift / relay, the workings shall be placed under the charge of at least a foreman, who shall be responsible for seeing that all the regulations and orders made thereunder are strictly complied with.

3.1.5 Adequate number of supervisors, including duly qualified personnel having Second Class Manager's Certificate of Competency / Foremen Certificate of Competency and Mining Mate Certificate of Competency shall be appointed in each working shift / relay to assist the Mine Manager. Assistant Manager, Foreman, and Mining Mate so appointed shall be responsible for seeing that all the regulations and the orders made there under are strictly complied with.

3.1.6 The drilling and blasting shall be carried out under the personal supervision of Mine Manager. Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in register kept for the purpose for each blast.

3.1.7 If, the Manager is authorised under regulation 34 (6) of the Metalliferous Mines Regulations, 1961, the mine working shall be carried out as per the restrictions or conditions stipulated in the authorisation granted.

3.1.8 Persons engaged in mining operation and including the contractor's workers shall be provided closer and competent supervision.

3.1.9 Manager shall authorize all contractor workers before deploying in opencast working.

3.1.10 Each and every operation, including the operation carried out through contractor's worker or by outside agency, shall be placed under the charge of a competent supervisor, duly appointed and authorized by the Manager.

3.1.11 Manager shall frame Safe Operating Procedure (SOP) in local language understood by most of person employed for each operation / equipment and copy of it shall be handed over to all concerned. It shall be the duty of all statutory persons to enforce the SOPs' so framed.

### **3.2 The Manager shall not manage more than one mine.**

3.2.1 The aggregate horsepower of the machinery used in opencast working shall not exceed 500, including not more than two excavators with total horsepower not exceeding 200 shall be deployed at the mine

3.2.2 The total amount of explosive used per day in such workings shall not exceed 100 kg.

3.2.3 Avarage employment does not exceed 75 in all in the mine.

3.2.4 No ore dressing/handling/processing plant is attached with the mine.

### **3.3 Duties of Manager:**

3.3.1 It shall be duty of Manager,

- a. to ensure compliance with the aforesaid precautions
- b. to determine compliance and specify in respect of every vehicle the maximum load to be hauled and maximum speed of the vehicle and cause notices specifying the same to be posted along the road at appropriate places;
- c. to cause warning notices (drawing attention to any necessary precautions) to be posted along the truck or haulage roads at appropriate places like crossing, curves and turning points etc.
- d. to designate the persons authorized to ride on trucks.
- e. to give every truck driver direction in writing with respect to loads, speed, persons authorized to rides on trucks and precautions necessary for safe running
- f. to countersign entries in books and records to be maintained in pursuance of these precautions.
- g. to take such other precautionary measures as may be necessary to ensure safe operation and maintenance of transport vehicles and for the safe work persons.

#### **3.3.2 Manager shall ensure that,**

- a. **Frequent inspections are made for evidence of slides or of material that may slide or roll from the high wall (including the face and sides) or spoil banks;**
- b. **No person shall be allowed to work under overhanging ledges or where there is evidence of slides, until such danger has been removed;**
- c. **Every person engaged in dressing operations on high walls / sides is provided with, and uses, a safety belt of a type approved by the Chief Inspector;**
- d. **All loose material is removed from high wall / slide before persons are engaged thereand;**
- e. **Parapet walls along truck roads are properly maintained.**

### **4.0 DESIGN & MAINTENANCE OF HEAVY EARTH MOVING MACHINERY (HEMM):**

4.1 Every Heavy Earth Moving Machinery shall be maintained in good and safe working condition. For this purpose the layout of the workshop for maintenance of HEMM and other equipments shall be as per requirement mentioned in the DG's Circular No. 8 of 2003.

4.2 Every Heavy Earth Moving Machinery shall be provided with;

- (i) adequate front and rear lights;
- (ii) efficient brakes;
- (iii) Audio-Visual warning device, which shall be actuated automatically to produce both audible and visual warning system during reversal of machinery;
- (iv) any other advanced mechanism like rear vision system etc.

4.3 Every shovel shall be so designed as to afford the operator clear and uninterrupted vision all around.

4.4 Operators cabin of every HEMM shall be well designed and substantially built so as to ensure adequate protection to the operator against heat, dust, noise etc., and at the same time provide adequate safety to the operator in the event of overturning of heavy earth moving machinery. A seat belt & seat belt reminder for the operator shall also be provided.

4.5 The code of instructions furnished by the manufacturers in the matter of maintenance of various machinery and vehicles and preventive maintenance schedules for each type of machinery and vehicle shall be strictly followed.

4.6 Every machine shall be allocated at least one day in every week for maintenance. Before the machine is sent out for work after maintenance, it shall be thoroughly inspected by the engineer or other competent person authorized by the Manager in writing, who shall satisfy himself that the machine is mechanically sound and in efficient working order.

- 4.7 A report of every inspection made under clause (4.6) shall be recorded in a bound paged book kept for the purpose and shall be signed and dated by the person making the inspection and countersigned by the engineer.
- 4.8 Every machine in use shall be thoroughly inspected once at least in every 24 hours by a competent person duly authorized by the Manager of the mine.
- 4.9 If the engineer or other competent person making inspection, notices any defect in any machinery, the said machinery shall not be used until the defect has been remedied.
- 4.10 Any defect in a machinery reported by its operator shall be promptly attended to.
- 4.11 Any machine found to be in an unsafe operating condition shall be tagged at the operator's position "OUT OF SERVICE, DO NOT USE" and its use shall be prohibited until the unsafe condition has been corrected
- 4.12 All repair to machinery shall be done at a location, which will provide a safe place for the persons engaged on repairs
- 4.13 Except for testing, trial, or adjustment, which must necessarily be done while the machine is in motion, every machine shall be shut down and positive means taken to prevent its operation while any repair or manual lubrication is being done.
- 4.14 Any machinery, equipment, or part thereof which is suspended or held apart by use of slings, hoists, jacks shall be substantially blocked or cribbed before men are permitted to work underneath or between such machinery, equipment or part thereof.
- 4.15 Power shall be disconnected when repairs are made to any electrical machinery.
- 4.16 While inflating tyres of transport vehicles, suitable protective cages shall be used. Tyres shall never be inflated by standing/sitting either in the front or on the top of the same.
- 4.17 Only such fitters or mechanics, who possesses driving license under Motor Vehicles Act, 1988, wherever applicable, shall be authorized by the Manager to test-run the HEMM.
- 4.18 The brakes of all tippers / dumpers and other transport machinery shall be tested at least once in every fortnight by a competent person duly authorized by the manager of the mine in manner detailed below:  
**Service Brake Test** : The Service brake shall be tested with the tippers are fully loaded condition on a specified gradient and speed. It shall stop within a specified distance by the manufacturer of the vehicle when the service brake is applied.  
**Parking Brake Test** : The parking brake shall be capable of holding the tippers are when fully loaded and placed on maximum gradient of roadway which is permitted, for a period of at least ten minutes.  
However, DGMS (Tech) Circular No. 04 of 2012 (Accidents due to dumpers from failure of brake & steering systems) and other circulars/Instructions issued from time to time for the safe operating procedure shall be strictly complied.
- 4.19 A record of all such test shall be maintained in a bound paged book kept for the purpose and shall be signed by the competent person carrying out the test and countersigned by the engineer and manager of the mine.
- 4.20 Every dumper/tipper shall be provided with automatically operating audio-visual reversing alarm, which shall always be kept in working order.
- 4.21 No person shall be permitted to work on the chassis of tipper / dumper with the body in a raised position until the tipper / dumper body has been securely blocked position. The mechanical hoist mechanism alone shall not be depended upon to hold the body of the tipper / dumper in raised position.
- 4.22 All HEMM shall be equipped with suitable portable fire extinguisher(s) in addition to automatically operated fire detection and suppression device or System.
- 4.23 Hydraulic hoses, electric wires, sleeves, and conduits (where cable/wire is passed) of fire-resistant quality shall be provided in all HEMM.
- 4.24 No tractor-trailer combination shall be allowed on haul roads. (Where inevitable, only four wheel trailers with separate brakes of their own shall be used).

**5.0 In addition to general requirement mentioned above, the following safety devices / features specific to machines shall be provided:**

**5.1 (A) In dumper:**

- (a) Mechanical steering locking to prevent untoward movement of steering wheel and tyre during work persons working below the cabin while engine is running.
- (b) Mechanical type device to protect operator in case of head to tail collision of dumpers.
- (c) Limiting speed device to limit the speed as per working conditions.
- (d) Propeller shaft guard.
- (e) Proximity warning device

- (f) Dump body raised position indicator with warning.
- (g) Retarder system in addition to service, parking and dump brakes.
- (h) Rock ejectors for tandem tyres.
- (i) Body raised position mechanical locking arrangement
- (j) Engine cut off arrangement / battery cut-off switch on front lower portion of the dumper.
- (k) Warning system for operator fatigue
- (l) Load indicator.
- (m) Auto Dipping System
- (n) Rear vision camera
- (o) Exhaust brake

**(B) In Tipper:**

- (a) Cabin guard extension / canopy fully covering operator's cabin.
- (b) Exhaust/retard brake.
- (c) Propeller shaft guard
- (d) Limiting speed device
- (f) Dump Body raised position indicator with Warning.
- (h) Dump body stabilizers.
- (i) Proximity warning device.
- (j) Auto dipping System
- (k) Load Indicator.
- (l) Rear vision camera
- (m) Warning system for Operator Fatigue

**(C) Hydraulic Excavators:**

- (a) All functions cut off switch
- (b) Swing Motor Brake and Swing lock
- (c) Parking Brake.
- (d) Vent valve on top of hydraulic tank (should be able to be removed without any tool).
- (e) Provision for Limiting of hydraulic cylinders-Stoppers.
- (f) Battery cut off switch outside cabin
- (g) Two-way communication system other than mobile phone in Operator's Cabin.

**(D) Rope Shovels & Draglines (where applicable)**

- (a) All functions, such as Crowd, Hoist, Swing, Propel and Drag shall be provided with 'ON' type brake so as to automatically apply the brake in case of Electrical power failure.
- (b) Travel limit switches for crowd, hoist and Drag functions as applicable.
- (c) Limit switch for boom movement.
- (d) Two-way communication system other than mobile phone in Operator's Cabin
- (e) Boom crack monitoring system in Draglines.

**(E) DRILLS:**

- (a) Dust prevention or suppression system provided in the Drills shall conform to DGMS circular no. DGMS(S&T)/ circular (Approval) No 1, dated 10.03.2017.
- (b) Emergency 'Stop' push button in
  - (i) Operator's cabin
  - (ii) Main frame.
  - (iii) Propeller pendent
  - (iv) Rear end
- (c) Over Temperature protection devices, in motor winding and other related parts.
- (d) Explosive vent in transformer.
- (e) Interlock between propel and drilling operations.
- (f) High air discharge temperature trip switch
- (g) Low lube oil pressure cut off switch (engine and compressor)
- (h) Oil stop valve (electric solenoid valve in compressor lubrication line)
- (i) No bump circuit
- (j) Tower lock.
- (k) Propel joystick-spring loaded type to return to neutral (dead man safety)
- (l) Lock check valves for preventing creeping in drill
- (m) Unloader valve
- (n) Stabilizers
- (o) Breakout wrench

- (p) Each moving part of the machinery shall be guarded/fenced and also its effectiveness ensured all the time.
- (q) Turbo charger guard
- (r) Cabin for the operator.
- (s) Disc- brake and brake valve and its testing parameters.

5.2 Suitable steps shall be taken to ensure the minimum design requirements for various Safety Features to be incorporated for use in Heavy Earth Moving Machinery (HEMM) & Heavy / Light vehicles in Open Cast Mines mentioned at Point No. 4.0 & 5.0. In this connection, the requirements of DGMS (Tech.) circular No's 06 of 2020 Dated 27.02.2020 shall be strictly complied with.

**6.0 DAILY EXAMINATION OF HEMM:**At the commencement of every shift / relay, the Engineer, or other authorized competent persons herein after called "competent person" shall personally inspect and test every HEMM paying special attention to the following details:

- 6.1 That the brakes and the horn or other warning devices are in working & is required to work after day light hours.
- 6.2 Competent person shall not permit the HEMM to be taken out for work nor shall drive the unless it is satisfied mechanically sound and in efficient working order.
- 6.3 Competent person shall also maintain a record of every inspection in a bound paged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

#### **7.0 OPERATION OF HEAVY EARTH MOVING MACHINERY (HEMM).**

- 7.1 No person other than the operator so authorized in writing by the Manager shall operate the machinery **(HEMM)**.
- 7.2 Operator of each HEMM shall be selected from amongst persons possessing requisite qualifications. The selection process shall comprise a test to check operating skill, aptitude, health, and oral examination of the candidate by a competent selection committee. The selected person shall be trained and their competency shall be evaluated by a board constituted by the mining company.
- 7.3 The Manager of the mine shall frame a Standard Operating Procedure (SOP) / Code of Practice (COP) for safe operation of heavy earth moving machinery and ensure its compliance.
- 7.4 To prevent unauthorized operating, a system shall be evolved whereby the ignition key and / or cabin key always remain with the driver/operator or with specifically designated competent person
- 7.5 As far as possible, loaded tippers / dumpers shall not be reversed on gradients.
- 7.6 While reversing a tippers / dumpers at dump yard/stopping point suitable mechanism like stop blocks/carthen bund etc. shall be provided to prevent / tippers / dumpers from approaching towards edge of dump.
- 7.7 "The Code of Traffic Rules" shall be framed by the Mines Manager for the movement of all tippers / dumpers and shall be prominently displayed in Multi language or the language understood by persons employed at the relevant places as decided by Mines Manager in the opencast workings of the mine and shall strictly complied with:
- 7.8 When not in use every tippers / dumpers or other transport machinery shall be moved to and parked at proper parking places.
- 7.9 No shovel or excavator shall be operated in a position where any part of the machine, suspended loads or lines are brought closer than three meters to exposed high voltage lines, unless the current has been cut off and the line de-energized. A notice of this requirement shall be posted at the operator's control panel.
- 7.10 Electrical cables, if any shall be laid in such a manner that they are not endangered either by falling rocks or by mobile equipment.
- 7.11 If more than one stripping machine is in use in any area, either on the same bench or on different benches the machines shall be so spaced that there is no danger of accident from flying or falling objects etc. from one machine to the other.
- 7.12 No unauthorized person shall be permitted to enter or remain in any dumping yard or turning points.
- 7.13 While HEMM is being loaded / unloaded on a gradient, the same shall be secured on a stationary position by parking brake and any other suitable mechanism.

#### **8.0 DUTIES OF OPERATORS OF HEAVY EARTH MOVING MACHINERIES, EXCLUDING TIPPERS AND DUMPER.**

- 8.1 At the commencement of every shift / relay, the operator shall personally inspect and test the machine and protective devices, as stipulated in this respect by the engineer in consultation with the Manager and manufacturer/supplier. Maintain a record of every such inspection in a bound paged book kept for the purpose and shall sign every entry made therein.

8.2 Operator shall not take out the machine for work nor shall work the machine unless satisfied that machines are mechanically sound in efficient working order.

8.3 The operator shall not operate the machine when persons are in such proximity as to be endangered.

8.4 Operator shall not swing the bucket of a shovel over the passing haulage units or over the cabin of units being loaded.

8.5 Lower the bucket to ground, switch- off the power supply to the machine or stop the prime mover and lock the cabin door before leaving the machine

8.6 The operator shall not allow any unauthorized person to ride on the machine.

8.7 It is required to strictly adhere to the codes of practices and safe operating procedures while operating the machinery.

8.8 It is required to enter the condition of the machine at the end of his shift in the register or book maintained under the clause (8.1) for necessary information of his successor.

#### **9.0 DUTIES OF TIPPERS / DUMPER OPERATORS:**

9.1 At the commencement of every shift / relay, the operator shall personally inspect and test the machine and protective devices, as stipulated in this respect by the engineer in consultation with the Manager and manufacturer/supplier.

9.2 Maintain a record of every inspection made under clause (9.1) in a bound paged book kept for the purpose and shall sign every entry made therein:

9.3 Operator shall not take out the machine for work nor shall operate the machine unless it is satisfied that it is mechanically sound and in efficient working order.

9.4 Operator shall not drive too fast, shall avoid distraction, and shall drive defensively. There shall not any attempt to overtake another machine unless operator can see clearly far enough ahead to be sure that can pass it safely giving an audio warning signal before overtaking.

9.5 When approaching stripping equipment, the operator of the tippers / dumpers shall sound the audio-visual warning signal and shall not attempt to pass the stripping equipment until driver has received a proper audio-visual signal in reply.

9.6 Before crossing a road or railway line, operator shall reduce the speed, look in both directions along the road or railway line, and shall proceed across the road or line only if it is safe to do so.

9.7 The operator shall sound the audible warning signal before while approaching 'blind' corners or any other points from where persons may walk in front unexpectedly.

9.8 The operator shall not operate the tipper / dumper in reverse unless an adequate clear view of the area behind the machine.

9.9 Operator shall give an audio-visual warning signal before reversing a tipper / dumper.

9.10 The operator shall be sure of clearance before driving through tunnels, archways, plants, structures etc.

9.11 The operator shall see that the machine is not overloaded and that the material is not loaded in a tipper / dumper so as to project horizontally beyond the sides of its body and that any material projecting beyond the front or rear is indicated by a red flag during day and a red light after day light hours.

9.12 The operator shall not allow any unauthorized persons to ride on the machine.

9.13 As far as possible loaded tippers or dumper shall not be reversed on gradient.

9.14 Strictly adhere to the traffic rules and safe operating procedures while operating the machinery.

9.15 Enter the condition of the machine at the end of his shift in the register or book maintained under the clause (9.2) for necessary information of his successor.

#### **10.0 DUTIES OF DRILL OPERATORS**

10.1 At the beginning of the shift / relay, the drill operator shall examine the drilling equipment and satisfy himself that –

- a. Crown blocks are mounted securely
- b. Where compressed air drills are used, all hose's connections are in order
- c. The drill equipment is in safe working condition.

10.2 The drill operator shall ensure that-

- a. Persons keep clear of augur and drill stem while the drill is in motion
- b. Persons do not work or stand under suspended tools, when tools are removed from the holes, these shall be lowered on the platform.
- c. All finished drill holes are properly plugged so as to avoid possible leg injuries to any one accidentally stepping in to the holes.

#### **11.0 ADDITIONAL DUTIES ENGINEER IN CHARGE OF HEMM IN OPENCAST WORKINGS:**

11.1 During each shift / relay the HEMM and vehicles at work shall be placed under the charge of qualified and experienced Engineer for inspection, examination, safe operations and maintenance of the HEMM. During the shift / relay the competent shall;

- (a) inspect, examine machines, equipment's satisfy himself that they are in sound and safe working order;
- (b) not allow any machine and vehicles to be used, if it is found defective;
- (c) ensure that HEMM used is in a safe and efficient order;
- (d) ensure that each operation, activity is carried on in safe and efficient manner.

11.2 Surprise inspection shall be carried out by the Engineer / competent person / Superior official at an interval not exceeding 15 days to ensure that the examination schedule of machinery / equipment is carried out and the same shall be recorded in the bound paged book kept for the purpose and signed by the engineer.

## **12.0 SPOIL BANKS:**

12.1 The spoil bank shall be designed and maintained scientifically paying special attention to the following details:

- a. Spoils, overburden or debris shall be deposited at places belonging to the mine and duly approved by the Manager in writing.
- b. Spoils, overburden or debris shall not be deposited beneath transmission, telephone or power lines or near any public structures.
- c. The slope of a spoil bank face shall be determined by natural angle of repose of the material being deposited, but shall in no case exceed 37.5 degree from the horizontal. The spoil bank face shall not be retained by artificial means at an angle in excess of its natural angle of repose.
- d. Spoils, overburden or debris shall not be deposited within 45 m of a railway or other structures and it shall not be permitted to approach any of the above said structures closer than a distance equal to 1.5 times the vertical height of its face.

12.2 The toe of the spoil bank shall not approach Railway or other public works, public road or building or other permanent structures not belonging to the owner of the mine closer than a distance equal to twice the vertical height of the spoil bank.

12.3 A suitable fence shall be provided between any railway or public works or road or building or structure and the toe of an active spoil-bank so as to prevent unauthorized persons from approaching the spoil bank.

12.4 No person shall, or shall be permitted to approach the toe of an active spoil bank where it may be endangered from material rolling down the face. Suitable signs for warning the persons at conspicuous places shall also be displayed.

12.5 Any spoil bank exceeding 10 meters in height shall be benched so that no bench exceeds 10 meters in height and general slope does not exceed 1 vertical to 1.5 horizontal.

12.6 Wherever space permits, every mine shall establish a system whereby loading and unloading operations in the stock yard are not done simultaneously for elimination of risk element in the operations. In case adequate space is not available, mine management shall organize suitable traffic regulations for eliminating risk element in the operations.

12.7 Extraction of mineral by reclamation from dump or stock pile/yard shall be treated as working of opencast benches with loose overburden and all the precautions in respect of working of opencast benches with loose overburden shall be taken.

**13.0 PRECATUIONS WHILE DRILLING:**The position of every shot - hole to be drilled shall be distinctly marked by the mine Foremen so as to be readily seen by the drillers.

**14.0 TRANSPORT AND USE OF EXPLOSIVES:**Where explosives are transported for blasting, the following precautions shall be taken:

14.1 Transport of explosives from the magazine to the priming station or the site of blasting shall not be done except in original wooden or cardboard packing cases. The quantity of explosive transported at one time to the site of blasting shall not exceed the actual quantity required for use in one round of shots. Explosives shall be transported to the site of blasting not more than 90 minutes before the commencement of charging of the holes.

14.2 In accordance with D.G.'s Approval Circular No. 2 of 1986, No mechanically propelled vehicle shall be used for the transport of explosives unless it has a valid license under Rule 61 of the Explosives 2008 and by strictly following the conditions stipulated there with.

14.3 Every vehicle used for transportation of explosive shall be marked or placarded on both sides and ends with the word 'Explosives' in white letters not less than 15 cm high on a red background.

14.4 Every mechanically propelled vehicle transporting explosives shall be provided with not less than two fire extinguishers (one of carbon tetrachloride type for petroleum fire and the other of carbon dioxide under pressure type for electrical fire) suitably placed for convenient use.

14.5 The vehicle used for transport of explosives shall not be overloaded and in no case shall the explosive cases be piled higher than the sides of its body.

14.6 Explosives and detonators shall not be transported in the same vehicle, at the same time.

14.7 No persons other than the authorized driver and the helper so authorized shall ride on a mechanically propelled vehicle used for transport of explosives.

14.8 Explosive Van / vehicle loaded with explosive shall not be left unattended.

14.9 Engine of a vehicle transporting explosives shall be stopped and the brakes set securely before it is unloaded or left standing.

14.10 A vehicle transporting explosives shall not be driven at a speed exceeding 25 kilometers per hour.

14.11 A vehicle loaded with explosives shall not be taken into garage or repair shop and shall not be parked in a congested place.

14.12 A vehicle transporting explosives shall not be re-fueled except in emergencies and only when its engine is stopped and other precautions taken to prevent accidents.

14.13 No trailer shall be attached to a Explosive Van / Vehicle transporting explosives.

14.14 Every vehicle used for the transport of explosives shall be carefully inspected once in every 24 hours by a competent person to ensure that:

(a) fire extinguishers are filled and in place;

(b) the electric wiring is well-insulated and firmly secured;

(c) the chassis, engine and body are clean and free from surplus oil and grease;

(d) the fuel tank and feed lines are not leaking; and

(e) lights, brakes, and steering mechanism are in good working order.

14.15 Report of every inspection made under clause (13.15) shall be signed and dated by competent person making an inspection.

14.16 All operations connected with transport of explosives shall be conducted under the personal supervision of a person holding at least Foreman Certificate of Competency in charge of blasting operations at the mine.

14.17 No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's, Mate's or Blaster's certificate.

14.18 The blaster shall personally search every person engaged in the transport and use of explosives and shall satisfy himself that no person so engaged has in possession any cigarette, 'biri' or other smoking apparatus, or any match or any other apparatus of any kind capable of producing a light, flame or spark.

14.19 Supply, issue, use and return of explosive records shall be maintained with authentication.

14.20 As required under Regulation 160(4) of Metalliferous Mines Regulation, 1961, no person whose wages / payment depend on the amount of mineral, rock or debris obtained by firing shots, shall be appointed to perform the duties of a blaster. No outside person shall perform the duties of the blaster and it shall be done only by statutory person appointed at the mine.

## **15.0 CHARGING OF HOLES:**

15.1 Explosives shall be delivered first to the hole farthest from the priming station, so as to avoid persons walking among piles of explosives and charged holes.

15.2 Not more than one hole shall be charged at any one face at any one time.

15.3 Only moistened sand / aggregate of suitable size shall be used as stemming material.

15.4 All charging, stemming and connecting-up shall be done while standing on solid, that is to say, on the side of holes away from the quarry face. Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in the register kept for the purpose for each blast.

15.5 Burden and spacing shall be suitably adjusted to ensure proper fragmentation, effective utilization of explosive energy and throw of debris / ore do not exceed 10m.

15.6 Notwithstanding what is contained in Regulation 164 of the Metalliferous Mines Regulations, 1961 no person other than blaster and blaster's assistants, if any, shall be permitted to remain within a radius of 20m or within 60m on the same bench where charging of holes with explosives is being carried out.

15.7 Faces shall be maintained free from loose stones, pebbles. Vertical (or near vertical) free face shall not be blocked.

15.8 Notwithstanding anything contained in the Metalliferous Mines Regulations, 1961 Preparation of charges and the charging and stemming of holes shall be carried out under the personal supervision of a Mine Foreman who shall fire the shots himself/Mining Mate/Blaster/Competent person appointed by the owner.

15.9 Use of Cellular phones and two-way transmitters while handling the explosives including preparing and charging of the same and in fuel filling stations is forbidden and shall be ensured and all the provisions vide No.DGMS (Tech) Circular No.2 of 2005 dated 27.1.2005 in this regard shall be strictly complied. The provisions of Circular 70/1966 (Specifications of cables for shotfiring), Circular 25/1974 (Approval of shotfiring cables) shall be strictly complied.

#### **16.0 PRECAUTIONS DURING FIRING:**

16.1 Shots shall not be fired except during hours of day-light. All holes charged on any one day shall be fired on the same day.

16.2 As far as practicable, shot firing shall be carried out either between shift / relays or during the rest interval, or at the end of work for the day.

16.3 Precautions with regards to taking shelter etc as laid down in Regulation 164 of the Metalliferous Mines Regulations,1961 shall be complied with to ensure that there is no danger to life and property (Whether or not belonging to the owner) due to this operation. It shall be ensured that the fly rocks during blasting shall not go beyond 10m from the place of firing by doing effective muffling.

16.4 During the approach and progress of an electric storm, the following precautions shall be taken:

- (a) no explosive, particularly detonators, shall be handled;
- (b) if charging operations have been commenced, the work shall be discontinued until the storm has passed;
- (c) if the blast is to be fired electrically, all exposed wires shall be coiled up and if possible, placed in the mouth of the holes, or kept covered by something other than a metal plate/ conductive material;
- (d) all wires shall be removed from contact with the steel rails or a haulage track to prevent the charge being exploded prematurely by a local strike of the lightning.

16.5 The danger zone shall be distinctly demarcated (by means of red flags properly arranged and supported) before charging of holes is to commence.

16.6 Before firing, a siren installed for the purpose shall be blown three times for one minute each at intervals of one minute; and no shots shall be fired unless the blasting foreman with assistance of sufficient number of persons appointed in writing by the Manager for the purpose has ensured that all persons have left the danger zone or have taken adequate shelter.

16.7 No shot shall be fired when there is traffic on any road or railway track within the danger zone. The provisions vide No. DGMS(Tech) Circular No.2 of 2005 dated 27.1.2005, Circular 70/1966, Circular 25/1974 shall strictly complied.

**17.0 PRECAUTIONS AGAINST FIRE:**Arrangements for fighting fire shall be provided on all Heavy Earth Moving Machinery. Such arrangements shall, if possible, operate automatically on appearance of fire.

**18.0 PRECAUTIONS AGAINST DUST:**Adequately arrangements to suppress dry dust by wetting shall be made. If during any operation of drilling, loading, unloading, crushing, dressing etc., dust is likely to be produced in such quantity (not more than 3 mg/m<sup>3</sup>) as may be injurious to the health of persons, as also on roads and benches where and dumpers operate. Dust Survey shall be done as laid down in Regulation 124 of the MMR, 1961.

**19.0 PROTECTION OF WORKERS AGAINST NOISE AND VIBRATION IN THE WORKING ENVIRONMENT:** Suitable steps shall be taken by all appropriate means to reduce the exposures of workers to any excessive noise and vibration. In this connection, the requirements of DGMS (Tech.) circular No's 18 of 1975 (protection of workers from noise and vibrations) & 5 of 1990 (Protection of workers against noise) shall be strictly complied with.

**20.0 PROTECTIVE EQUIPMENTS:**Every person working in the opencast workings including workshops, other surface installations, yards etc. shall be provided with and shall use protective foot-wear and helmets of a type approved by the Chief Inspector and such other protective equipment's as may be prescribed from time to time by the Chief Inspector or the Regional Inspector in accordance with the provisions of Regulation 182, 182A & 182B respectively.

#### **21.0 CONTRACTOR WORK VIS-À-VIS SAFETY:**

##### **A) Employer's responsibilities:**

- (i) Suitable clauses (in consistence with risk of the work allotted) shall be included in tender document (including NITs) stating how the risk arising to men & material from the mining operation/operations to be done by the contractors shall be managed.

- (ii) Ensure that contractors are familiar with the relevant parts of the statute, health and safety management system and are provided with copies of such documents prior to commencing work.
- (iii) Ensure that contractor's arrangements for health and safety management are consistent with those for the mine owner. All the rules, regulations, and bye-laws as applicable to the mine owner are also applicable to the contractor. Details of the contractor's workmen should be maintained in the owner's Form-A register. Whereas, attendance Registers in Form-D for contractor's men may be maintained independently by the owner. All the above Registers shall be kept in the mine office of the manager.
- (iv) Ensure that contracts should preferably be of longer period (three years), so that there is adequate scope of management of safety by the contractor.
- (v) Ensure that the contractor's provide the machinery, operator and other staff with written safe work procedures for the work to be carried out, stating clearly the risk involved and how it is to be managed.
- (vi) Monitor all activities of the contractors to ensure that contractor are complying with all the requirements of statute and the system related to safety. If found non-compliance of safety laws directing the contractor to take action to comply with the requirements, and for further non-compliance, the contractor may be suitably penalized. Clause of this affect may be part of the agreement between the employer and the contractor.
- (vii) Where a risk to health or safety of a person arises because of a non-compliance directing the contractor to cease work until the non-compliance is corrected.

#### **B) Contractor's responsibilities:**

- (i) Prepare written Safe Operating Procedure (SOP) for the work to be carried out, including an assessment of risk, wherever possible and safe methods to deal with it/them.
- (ii) Provide a copy of the SOP to the person designated by the mine owner who shall be supervising the contractor's work.
- (iii) Keep an up-to-date SOP and provide a copy of changes to a person designated by the mine owner.
- (iv) Ensure that all work is carried out in accordance with the Statute and SOP and for the purpose he may deploy adequate qualified and competent personnel for the purpose of carrying out the job in a safe manner.
- (v) For work of a specified scope/nature, develop and provide to the mine owner a site-specific code of practice.
- (vi) Ensure that all sub-contractors hired by him comply with the same requirement as the contractor himself and shall be liable for ensuring compliance all safety laws by the sub or sub-sub contractors.
- (vii) All persons deployed by the contractor for working in a mine must undergo vocational training, initial medical examination, PME. They should be issued cards stating the name of the contractor and the work and its validity period, indicating status of VT & IME.
- (viii) Every person deployed by the contractor in a mine must wear safety gadgets to be provided by the contractor. If contractor is unable to provide, owner / agent/ manager of the mine shall provide the same.
- (ix) The contractor shall submit to DGMS returns indicating- Name of his firm, Registration number, Name and address of person heading the firm, Nature of work, type of deployment of work persons, Number of work persons deployed, how many persons hold VT Certificate, how many work persons undergone IME and type of medical coverage given to be work persons. The return shall be submitted quarterly (by 10th of April, July, October & January) for contracts of more than one year. However, for contracts of less than one year, returns shall be submitted monthly.

#### **C) Employee's responsibilities:**

- (i) An employee must, while at work, take reasonable care for the health and safety of people who are at the employee's place of work and who may be affected by the employee's act or omissions at work.
- (ii) An employee must, while at work, cooperate with his or her employer or other persons so far as is necessary to enable compliance with any requirement under the act or the regulations that is imposed in the interest of health, safety and welfare of the employee or any other person.

It shall be the duty of the Manager to issue duty charts (in the language which is understood by the person concerned) to various Operators/Supervisors connected with the use of Heavy Earth Moving Machinery. Manager and Engineer shall be responsible to ensure that all the precautions and guidelines listed in the permission are strictly followed.

## **22.0 MISCELLANEOUS:**

22.1 At gate the license of the drivers shall also be checked for eliminating the possibility of unlicensed persons driving the vehicle. In order to check the entry of such vehicle in the mine premises, properly manned check gate shall be provided at the mine entrance where the record of entry & exit of each vehicle shall be maintained. Before the pass is issued the mine engineer/competent person shall check the roadworthiness of such vehicle. Tippers / Dumper and other HEMM, not belonging to management shall not be allowed in the mine premises without a valid pass issued by the competent authority of the mine.

22.2 All persons engaged at any work within the mine premises through the contractors shall be provided with relevant training and other job-related briefings and it shall be ensured that the drivers of the vehicle belonging to contractors entering the mine premises have additionally been explained the salient provisions of "Traffic Rules".

22.3 An embankment of substantial construction and adequate dimension shall be provided between the quarry workings and seasonal Nallahs/odai/pond etc existing near the side of the proposed opencast workings. No workings shall be made within horizontal distance of 15 m from the HFL / Embankment of any River /Nallah /odai / pond etc.

22.4 During the Monsoon period one guard shall be posted round the clock at a conspicuous place near the embankment created against the said Nallahs /odai / pond with communication and illumination facilities.

22.5 The surface garland drains shall be made all round at level higher than top most bench of the proposed working to arrest entry of surface rain water into the proposed area of working.

22.6 Land destroyed due to extraction of mineral by opencast method shall be reclaimed simultaneously by in-pit dumping as the workings progress from one end to another.

22.7 No electrically operated machine, equipment and accessories shall be energized, commissioned, and used without prior approval of the competent authority under the relevant provisions of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023.

22.8 All the precautions and directives given in DGMS circulars issued from time to time shall be compiled with.

22.9 The Owner, Agent and Manager shall ensure that the aforesaid conditions are made known to all concerned. They shall also ensure that every such person has fully understood the same and complies with them.

22.10 At least three months before the expiry of this permission, the management shall apply for extension/revalidation of the permission.

22.11 This permission is valid for a period of **05 (FIVE) years** from the date of issue of the letter or the validity of the mining lease, whichever is earlier.

22.12 These governing conditions are being issued specifically under the regulations mentioned above and without prejudice to any other provision of law, which may be or may become applicable at any time.

22.13 Any additions, alterations, or modifications to the installations, if found necessary in the interest of safety, by the inspecting officer during the inspection at a later date shall be carried out without any further delay.

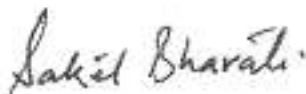
22.14 These governing conditions may be amended or withdrawn at any time should it be considered necessary in the interest of safety.

22.15 **If anything is found to be falsified / concealed by applicant while seeking this permission as required under the applicable statute, this permission shall deem to be withdrawn with immediate effect.**

22.16 In the event of any change in the circumstances connected with the use of HEMM which is likely to endanger the life of workmen employed in the mine, operation for which these conditions have been imposed shall be stopped forthwith and intimation thereof sent to this Directorate. The said mining operation shall not be resumed without an express and fresh authority to that affect in writing from this Directorate.

22.17 A hard copy of this permission shall always be kept available in the office of the mine for reference.

Your Faithfully



SAKET BHARATI (DIRECTOR - BENGALURU REGION)

THIS IS A SYSTEM GENERATED DOCUMENT, DOES NOT REQUIRE ANY SIGNATURE.



POLICY SCHEDULE FOR EMPLOYEES COMPENSATION INSURANCE

UIN NUMBER - IRDAN190P0077100001

<b>Insured's Name</b>	: K L R GRANITES		
<b>Insured's Details</b>		<b>Issuing Office Details</b>	
<b>Customer ID</b>	: PCB3584985	<b>Office Code</b>	: THODUPUZHA BO (762301)
<b>Address</b>	: 5/162 CHENGARA P O MALAYALAPUZHA VILLAGE, KONNI PATHANAMTHITTA MALAYALAPUZHA, KERALA, 689654	<b>Address</b>	: PUTHIYAKUNNEL BUILDINGS KANJIRAMATTOM BYEPASS ROAD, THODUPUZHA, IDUKKI DIST.  685584
<b>Phone No</b>	: XXXXXX5354	<b>Phone No</b>	: 04862229485
<b>E-mail/Fax</b>	: shibin@klservices.in /	<b>E-mail/Fax</b>	: nis.762301@newindia.co.in /
<b>PAN No</b>	:	<b>S.Tax Regn. No</b>	: AAACN4165CST178
<b>GSTIN/UIN</b>	: 32AAYFK0644A1ZL / NA	<b>GSTIN</b>	: 32AAACN4165C4ZX
		<b>SAC</b>	: 997139 (Other non-life insurance services excl RI)

<b>Policy Details</b>			
<b>Policy Number</b>	: 76230136240100000001	<b>Business Source Code</b>	
<b>Period of Insurance</b>	: From: 02/04/2024 11:18:40 AM To: 01/04/2025 11:59:59 PM	<b>Dev. Off level./Broken/Corp. Agent/Web Aggregator/CPSC User</b>	: JAIMY P JACOB - (BA5603104)
<b>Date of Proposal</b>	: 02-Apr-24	<b>Agent/Bancassurance/S pedfied Person</b>	: Mr. GEORGE JOHN PUTHUPALLIL (NIAAG00035201) SITE_GEORGE JOHN (S100066579)
<b>Prev. Policy no.</b>	:	<b>Phone No</b>	: 9447876056 / 04862223556, 9447474856
<b>Client Type</b>	: Non-Corporate	<b>E-mail/Fax</b>	: george_binish@rediffmail.com, jaimyp.jacob@newindia.co.in, jaimypjacob@rediffmail.com /

Premium(₹)	GST(₹)	Total (₹)	Total (₹ In words)	Receipt No. & Date
42,048	7,568	49,616	RUPEES FORTY-NINE THOUSAND SIX HUNDRED SIXTEEN ONLY	7623018124000000013 1 - 02/04/24

Details of Employees with monthly wages upto ₹ 15000:

Categories	Sub Categories	No of Employee	Cash Total Wages
Quarries	Where any blasting is done supervisor	1	180000
Quarries	Where any blasting is done machine operator	2	360000
Quarries	Where any blasting is done blasting workers	6	1080000
Quarries	Where any blasting is done labourers	3	540000

Details of Employees with monthly wages above ₹ 15000:

Categories	Sub Categories	No of Employee	Cash Total Wages
Trade Description	Particular of Works	Location Details	Included All Sub-Contractors



Policy No. : 76230136240100000001 Document generated by 36825 at 02/04/2024 17:54:07 Hours.

Regd. & Head Office: New India Assurance Bldg., 87 M.G. Road, Fort, Mumbai - 400 001. TOLL FREE No. 1 800 209 1415.



Trade Description	Particular of Works	Location Details	Included All Sub-Contractors
STONE QUARRY MINING PROJECT	QUARRYING	CHENGARA MALAYALAPUZHA VILLAGE	

Contractor/Sub-Contractor Details:

Serial No	Name of Contractor	Description	Categorie	No. of Workers			Amount Wages
				Skilled	Unskilled	Others	

Extensions under the Policy Cover

Name of the Extension	Sub Limit of the Extension	Deductibles of the Extension
Medical Extension	₹25000	NA
Special Conditions	NA	

Special Exclusions	NA
Special Excess/Deductible	NA

The Policy shall be subject to EMPLOYEES COMPENSATION INSURANCE Policy clauses attached herewith.

Clauses	Description
---------	-------------

Premium and GST Details

	Rate of Tax	Amount in INR
Premium		₹ 42,048
SGST	9	3784
CGST	9	3784
IGST	0	0

In witness whereof the undersigned being duly authorised by the Insurers and on behalf of the Insurers has (have) hereunder set his (their) hand(s) on this 02nd day of April, 2024.

For and on behalf of

The New India Assurance Company Limited

Date of Issue: 02/04/2024	
	Duly Constituted Attorney(s)

Stamp Duty under the Policy is ₹

Mudrank \_\_\_\_\_ Dt. \_\_\_\_\_ consolidated Stamp Fees Paid by Pay Order Number \_\_\_\_\_ vide receipt number \_\_\_\_\_ dt. \_\_\_\_\_.

We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 48, we are not required to prepare an invoice in terms of the provisions of the said sub-rule.

Tax Invoice No : 76230124P0000152

IRDA Registration Number: 190  
NIA PAN NUMBER: AAACN4165C

# **ANNEXURE – 17**

## **COPIES OF NEWSPAPER ADVERTISEMENT**





Prime Minister Narendra Modi arrives with Lakshmi Sahasr and other candidates at a meeting...

INDIA bloc aims to destroy Shakti concept: PM Modi

Says Opposition parties will come to know the power of 'Nari Shakti' on counting day

EXPRESS NEWS SERVICE @Shanugat

PRIME Minister Narendra Modi on Monday alleged that the INDIA bloc has proclaimed to destroy the Shakti concept...

Addressing a mega election rally in Shivamoga, covering 19 parliamentary constituencies of Shivamoga, Chikmagalur, Chitaldrug, Dakshin Kannada and Chitradurga, he said, "Nari Shakti is a symbol of Maa Shakti, which is my armour."

Modi road show in Koval leaves vendors upset

Colembator: Prime Minister Narendra Modi's visit to the city for a roadshow on Monday enthused the BJP cadre...

enahk, BJP focuses on women empowerment, Jai Hind with BJP" he exhorted voters.

"The British left this country but Congress still has the mindset of the British. Eyes today, Congress relies on divide-and-rule policy and aims to divide the country along caste and religious lines," he said.

Abhimanyu murder: Court appoints inquiry officer to probe missing docs

TORY ANTONY @tact

THE Ernakulam District Principal Sessions Court on Monday appointed an inquiry officer to conduct an administrative-level probe into the missing of 11 crucial documents in the Abhimanyu murder case.

person named Arjun, casualty register and hospital card of another accused Vineth, the wound certificate of Rahul K.

The court, while considering the case on Monday, observed, "Missing documents are regular at courts. There have been instances where the lost documents were found later. There is nothing unusual about the missing of documents in this case."

Regarding the inquiry officer, the judge did not disclose any details saying that it is an ad-

ministrative procedure, not a judicial one. However, it is learned that a judge is conducting the inquiry into the incident.

Judge Binoy was apprised of the missing document issue on September 2023. As per procedure, she reported it to the Kerala High Court which directed her to reconstruct the files.

The case was considered Monday to hear the defence counsel's objections, if any regarding the authenticity of the reconstructed documents. However, the counsel representing the eight accused persons, who are members of the student political organisation Campus Front, filed an objection over the reconstruction of missing documents.

K-Rice flies off shelves, govt orders 8k MT more

EXPRESS NEWS SERVICE @Pham

THE positive response to K-Rice, his initiative to provide rice to people at subsidised rates, has prompted the government to place orders for more quantities of the grain from suppliers in other states.

Source said, Nappilyco, which is the procurement agency, has placed an order for another 8,000 metric tonnes (MT) of rice. As per the data, 1.8 lakh families have purchased K-Rice so far. Of the 2,000 MT of rice bought in the first phase, nearly 1,800 MT have been distributed so far. Three varieties - Jaya, Kuruva and Matta - are available for purchase. Jaya rice is being distributed in the Thiruvananthapuram region, Matta in Kottayam and Ernakulam regions and Kuruva in the Kochi/Koche region.

The procurement is done through the government's elec-

K-Rice rates

Area: ₹29 per kg
Narava, Matta: ₹30 per kg
Skg will be distributed per cad

tronic tender system and suppliers are mostly from Andhra Pradesh, Tamil Nadu and Karnataka.

Priority cards

The food and civil supplies department has decided to supply priority ration cards to 18,384 families which had been on its waiting list. They will be included in the Priority Household (PHHD) Category funded by the state government.

Mastering

Mastering for priority ration card holders has been temporarily stopped due to technical issues.

Kerala, K'taka hold wild anin

EXPRESS NEWS SERVICE @tact

SPURRED by the spike in human-wildlife conflicts in Kerala, the state forest and wildlife department, along with the Tamil Nadu and Karnataka governments, will undertake a simultaneous survey of 'wild animals to find out the increase in their numbers.

Announcing this on Monday, Forest Minister A K Saseendran said the current number of wild animals in Kerala are estimated based on the census done in 2018.

"The last time the survey was done was five years ago. To find out the rise in the number of wild animals and their current status, Kerala, Karnataka and Tamil Nadu have jointly decided to undertake a new census at the same time," Saseendran told reporters in Ernakulam. He said the government has also come up with initiatives to ensure availability of water in forests to prevent wild animals from straying into human habi-



Availability of water in forests to prevent wild animals from straying into human habi-

EXPRESS HEAD

Man kills self after parents delay marriage

Vinudhuregar: An Anappalattu resident died by suicide on Sunday, allegedly because his parents delayed his marriage. Sources said, the deceased, J Prithvij, 31, had a dispute with his parents a few days ago when he asked them to get him married. They told him that they would find him a bride after his sisters were married off. Upset by this, Prithvij took the extreme step.

Sakhas grow, RSS bifurcate into north & south prant

EXPRESS NEWS SERVICE @tact

THE growth in the number of sakhas in Kerala has prompted the RSS to bifurcate its existing prant committees into two in the state. The decision was taken at the Akhila Bharatiya Prati-

sahs in Nagpur from March 10 to 17. Ernakulam will be the headquarters of the south prant committee, which will include districts from Thiruvananthapuram to Ernakulam. Districts from Kozhikode to Thrissur will come under the north prant committee.

KONKAN RAILWAY CORPORATION LIMITED

Notice of Work: New contract for General Contractor for Foundation and earth in Normal, Hard & Rocky soil for 2x25 KM traction system in Cheral...

Notice of Work: New contract for General Contractor for Foundation and earth in Normal, Hard & Rocky soil for 2x25 KM traction system in Vengalloor...

Notice of Work: New contract for General Contractor for Foundation and earth in Normal, Hard & Rocky soil for 2x25 KM traction system in Anantapur...

Announcements / Competitions if any, should be uploaded on NREPS website before submission of Tender Documents. Through NREPS, Minor Tender Documents shall not be accepted.

SALE NOTICE

ONLINE AUCTION NOTICE OF IMMovable PROPERTIES THROUGH E-AUCTION

Notice is hereby given to the public in general and in particular to the borrower and Guarantors that the same described immovable properties mortgaged to the Secured Creditors, the Possession of which has been taken by the Authorized Officer of Citibank Ltd. will be sold as 'As is Where is, As is What is' and 'Whatever there is in'...

Central Coalfields Limited

Notice: All the tenders issued by CCL and its Subsidiaries for procurement of Goods, Works and Services are available on websites of Coal India Ltd...

NOTICE

This is to inform the general public that the proposed quarry project, in survey no. 4/71-50M Makayappurath, Village, Kurva Grama Panchayat, Kottai Thala, Puthusserymulla Taluk, Kerala is accorded with environmental clearance by the State Environmental Impact Assessment Authority, Kerala...

NOTICE

This is to inform to the general public that the proposed quarry project in Block 70, re-survey No. 3/1, 2/2 of Pongur Village, Pongur Grama Panchayat, Malappuram District, Kerala is accorded with environmental clearance by State Environmental Impact Assessment Authority, Kerala...

KSEEP KERALA STATE ELECTRICITY

Notice: We the Executive Engineer, P.M.U. District 1-tender D.2024 KSEEP 54852 2 PNC. 4/1-tender D.2024 KSEEP 54524 2 PNC. 18/1-tender D.2024 KSEEP 54205 2 PNC. 22/1-tender D.2024 KSEEP 54661 2 PNC. 23/1-tender D.2024 KSEEP 54816 2 PNC. 7/1

MAHA TRANSCO LOCAL

Notice: SRM e-Tender No. T-2414MD (RFN No. 8000001166) MSETCL invites offers by Bids/ Techno-Commercial Bid and registered bidders for the following "Construction of 220KV DC line to Paduge - Kerala: Visit link a under Veeel 2.006, Mahatransco." interested bidders may obtain bid website https://www.maha.co.in/notice The date of downloading of bid website is from 11.03.2024.

TENDER NOTICE

SAINIK SCHOOL: Invites Sealed tenders before 08-04-2024 to Supply Stitched Uniforms as Enlisted in Our School Website

ICICI Bank

Notice: Auction Sale Notice for Sale of Immovable Assets under the Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 read with provision to Rule 9 (6) of the Security Interest Enforcement Rules, 2002.

CLASSIFIED

NOTICE: I, Janki K. W/o. Kottathathil Bhaskaran (Dad No. 64118730, SAGI, 1864000 in Kollamam, Mannargudi (PO), Pandalam Dist., Kerala, PIN 476 600, is hereby calling for notice in the general information of the public stage that he name and date of birth: 09/06/1960.





# **ANNEXURE – 18**

## **PHOTOGRAPHS OF FENCING**

PHOTOGRAPHS OF BOUNDARY FENCING





# **ANNEXURE – 19**

## **PHOTOGRAPHS OF EC DISPLAY BOARD**



# **ANNEXURE – 20**

## **PHOTOGRAPHS OF SIREN**

PHOTOGRAPHS OF WARNING SYSTEM



# **ANNEXURE – 21**

## **PHOTOGRAPHS OF ACCESS ROAD AND COVERED TRUCKS**

PHOTOGRAPHS OF CEMENTED ACCESS ROAD AND COVERED TRUCKS







# **ANNEXURE – 22**

## **PHOTOGRAPHS OF BLASTING TIME**

PHOTOGRAPHS OF QUARRY & BLASTING TIME DISPLAY BOARD



# **ANNEXURE – 23**

## **PHOTOGRAPHS OF MITIGATION MEASURES**

PHOTOGRAPHS OF MITIGATION MEASURES IMPLEMENTED























# **ANNEXURE – 24**

## **PHOTOGRAPHS OF SPEED LIMIT BOARD**

PHOTOGRAPHS OF SPEED RESTRICTION BOARD



# **ANNEXURE – 25**

## **COPY OF DGMS PERMISSION AND EXPLOSIVE LICENSE**

 <p>भारत सरकार Govt. of India श्रम एवं रोजगार मंत्रालय Ministry of Labour &amp; Employment खान सुरक्षा महाविदेशालय Directorate-General of Mines Safety</p> 	
NO: 51252476 SZ Bengaluru Region Perm 2024 265912	Date: 11/06/2024

प्रेषक / From,  
खान सुरक्षा निदेशक / Director of Mines Safety,  
बेंगलूरु क्षेत्र, बेंगलूरु / Bengaluru Region, Bengaluru-560071.

सेवा में /To,  
**Shri: Pitchaimuthu A,**  
Manager: KLR Granites (QL.No.734/2023-24/DMG/631/2022 dated 29.02.2024, LIN: 2-8721-0559-8; Mine Code: 51252476),  
Owner: Shri Joshy A Chemparathy,  
Extent of 3-8717 Hectares Sy. No: 47/1-9 at Malayalappuzha Village, Konni Taluk, Pathanamthitta District, Kerala.

**विषय /Subject:-Authorisation to work as Manager under Regulation 34(6) of the Metalliferous Mines Regulations, 1961, in favour of Shri Pitchaimuthu A, Foreman's Certificate of Competency (Restricted).**

महोदय/Sir,

Refer to your online application ID: 51252476|SZ|Bengaluru Region|Perm|2024|265912 Dated 28.05.2024 on the above subject. The matter has since been examined in the light of what has been stated in your application.

In the exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director General of Mines Safety) under the provisions of Regulation 34(6) of the Metalliferous Mines Regulations, 1961 and by virtue of the authorization granted to me by the Chief Inspector of Mines under Section 6(1) of the Mines Act, 1952, I, do hereby authorize **Shri Pitchaimuthu A, Holder of Foreman's Certificate of Competency (Restricted), Certificate No: FR/4790, dated 22.08.2018 to work as a manager at KLR Granites (QL.No.734/2023-24/DMG/631/2022 dated 29.02.2024, LIN:2-8721-0559-8; Mine Code:51252476) of Owner: Shri Joshy A Chemparathy, for an extent of 3-8717 Hectares, in Sy. No:47/1-9 at Malayalappuzha Village, Chengara Post, Konni Taluk, Pathanamthitta District, Kerala , for a period of one year from the date of issue of this letter or validity of Statutory Certificate, whichever is earlier, subject to strict compliance of conditions mentioned below:**

1. Manager shall not take up any appointment in any capacity whatsoever in another mine.
2. The Manager shall not allow any person for employment in the mine unless such persons have been imparted initial / periodic vocational training as required under Rule 6 to 9 and on-the-job training(s) as required under Rule 12 to 15 of the Mines Vocational Training Rules, 1966.
3. Every competent person in the mine shall be authorised for which he has been employed and he shall be issued with a certified copy of the statutory provisions related to his work as required under Reg.39(2) of the Metalliferous Mines Regulations, 1961.
4. Adequate number of Supervisors (Mining Mate Certificate or above) shall be appointed in each working shift to assist the Manager.

5. No deep hole drilling and blasting shall be conducted unless written permission has been obtained under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961.
6. No Heavy Earth Moving Machinery (HEMM) shall be deployed without obtaining written permission under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961.
7. As required under Regulation 160(4) of the Metalliferous Mines Regulations, 1961, no person whose wages/payment depends on the amount of mineral, rock or debris obtained by firing shots, shall be appointed to perform the duties of a blaster. No outside person shall perform the duties of the blaster, and it shall be done only by statutory personnel appointed at the mine. Thus, no agreement for blasting can be made with the explosive supplier or with any other person/firm.
8. The provisions of Regulation 164(1A)(c) and 164(1B)(a) of the Metalliferous Mines Regulations, 1961 shall be strictly complied with in case any public road or railway or permanent building/structure not belonging to the owner is/are situated within the danger zone.
9. The total amount of explosive used per day shall not exceed 75 kg, and not more than 50 shots shall be made in a day with electric detonators. [ *If deep hole blasting permission is granted, the explosives quantity may be increased to not more than 500 kg and the number of shots may be as per the study made by the manager as per Reg. 160(5)* ]
10. No underground workings shall be made.
11. The average daily employment of persons at the mine shall not exceed 75 in all.
12. Wet drilling shall be done by directing a water jet on to the tip of the cutting edge of the ergonomically designed drill machine to **prevent dreaded disease silicosis. The jack-hammer drill machines shall be ergonomically designed to minimise harm from vibration and noise .**
13. Airborne dust survey as provided in Regulation 124(3)(a) shall be done to ascertain the concentration of respirable dust in the air and also to know the percentage of free silica in the dust generated at the mine.
14. No mining operations shall be conducted beyond daylight hours.
15. Above permission shall stand cancelled as soon as the person, to whom this authorisation is being granted, leaves the services of the mine under reference. However, the Manager shall not vacate his office without giving due notice in writing to the owner or agent at least 30 days before the day on which he wishes to vacate his office . A copy of such notice shall be submitted to the Director of Mines Safety, Bengaluru Region.
16. *On or before the 01<sup>st</sup> day of February in every year, Owner/Agent/Manager shall submit Annual Return in respect of the preceding calendar year ONLINE through ShramSuvidha portal < <https://return.shramsuvudha.gov.in/user/login>>and <[www.dgms.gov.in](http://www.dgms.gov.in)>.*
17. All applications for permissions as required under the Mines Act, 1952 and its subordinate legislation shall be submitted ONLINE through website-<[www.dgms.gov.in](http://www.dgms.gov.in)>.
18. For blasting only well-insulated cable of sufficient length to permit blaster to take proper shelter shall be used.
19. Whereby reason of absence or for any other reason, the Manager is unable to exercise daily personal, supervision, a person holding at least **valid Foreman's Certificate** as substitute shall be authorised to act as Manager of the mine in compliance with Regulation 34(7) (a) (1) and if no such qualified person is available, the mine workings should be kept suspended during such absence of the Manager. Attention is drawn to Regulation 34(7) (a) and (b) in respect of the period of authorisation permitted, an intimation of authorisation to Director General of Mines Safety, Dhanbad and the Director of Mines Safety, Bengaluru Region.
20. The above authorisation shall stand cancelled as soon as the person to whom it is being granted leaves the service at the mine under reference.
21. Intimation about the termination of Manager as a result of his Transfer/Termination of Service/Resignation shall also be submitted in Form I of the First Schedule immediately.
22. No Ore dressing /handling/processing plant is attached with the mine.
23. Notwithstanding anything contained above, the authorisation may be withdrawn at any time as provided in the aforesaid Regulation.
24. If at any time anyone of the conditions, subject to which this authorisation has been granted, is violated or not complied with, this authorisation shall be deemed to have revoked with immediate effect.
25. In the event of any change in the circumstances connected with this authorisation, intimation thereof shall be sent to this Directorate.
26. This authorisation is being granted without prejudice to any other statutory provisions, which may be or may become applicable at any time.
27. This authorisation may be amended, modified or withdrawn at any time if considered necessary in the interest of safety.

28. Please note that this authorisation is not likely to be renewed unless the Manager's certificate is revalidated.

29. A hard copy of this permission shall be kept at the manager office for reference and strict compliance.

Your Faithfully

*Saket Bharati*

SAKET BHARATI (DIRECTOR - BENGALURU REGION)

THIS IS A SYSTEM GENERATED DOCUMENT, DOES NOT REQUIRE ANY SIGNATURE.

	<p>भारत सरकार Govt. of India श्रम एवं रोजगार मंत्रालय Ministry of Labour &amp; Employment खान सुरक्षा महानिदेशालय Directorate-General of Mines Safety</p>	
NO: 51252476 SZ Bengaluru Region Perm 2024 270331		Date: 21/12/2024

प्रेषक/From,  
खान सुरक्षा निदेशक/The Director of Mines Safety,  
बेंगलूरु क्षेत्र, बेंगलूरु./Bengaluru Region, Bengaluru-560071.

सेवा में/To  
The Owner  
M/s KLR Granites (QL No: 734/2023-24/DMG/631/2022-M2 Dated 29.02.2024; Mine Code: 51252476;  
LIN: 2-8721-0559-8),  
(Managing Partner: Shri Joshy A Chemparathy)  
Re-Survey Nos: 47/1-9, lease area 3.8717 Hectares in Malayalapuzha Village, Konni Taluk, Pathanamthitta  
District, Kerala.

**विषय/ Subject: Permission under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961, to work with Heavy Earth Moving Machinery (HEMM) without deep Hole Drilling & Blasting at M/s KLR Granites (QL No: 734/2023-24/DMG/631/2022-M2 Dated 29.02.2024; Mine Code: 51252476; LIN: 2-8721-0559-8) belonging to M/s KLR Granites (Managing Partner:Shri Joshy A Chemparathy) .**

महोदय/ Sir,

Refer to your online application no: 51252476|SZ|Bengaluru Region|Perm|2024|270331 dated 20/11/2024, and offline documents submitted vide no. nil dated 09.11.2024, enclosing there with surface plan no: 1/KERALA/PATHANAMTHITTA/JOSHYCHEMPARATHY/24-25 Dated 18/10/2024 and Plan no: 2/KERALA/PATHANAMTHITTA/JOSHYCHEMPARATHY/24-25 Dated 18/10/2024 on the above subject. The matter has since been examined in the light of what has been stated in your application under reference and related documents including the surface plan.

In exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director General of Mines Safety) under the provisions of clause (2)(b) of Regulation 106 of the Metalliferous Mines Regulations, 1961 and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director General of Mines Safety) under Section 6(1) of the Mines Act, 1952, I hereby permit to work with **Heavy Earth Moving Machinery (HEMM) without Deep Hole Drilling & Blasting within leasehold area at M/s KLR Granites (QL No: 734/2023-24/DMG/631/2022-M2 Dated 29.02.2024; Mine Code: 51252476; LIN: 2-8721-0559-8) belonging to Managing Partner: Shri Joshy A Chemparathy in the area demarcated as BP1, BP2, BP3, BP4, BP5, BP6, BP7, BP8, BP9, BP10, BP1 as shown in the surface plan no:1/KERALA/PATHANAMTHITTA/JOSHYCHEMPARATHY/24-25 Dated 18/10/2024 and Plan no:2/KERALA/PATHANAMTHITTA/JOSHYCHEMPARATHY/24-25 Dated 18/10/2024** subject to the following conditions being strictly complied with;

#### 1.0 GENERAL:

1.1 Except where otherwise provided for in this permission, all provisions of the Metalliferous Mines Regulations, 1961 relating to opencast workings, use of explosives and use of machinery shall be strictly complied with.

1.2 The mine shall be under a sole manager holding prescribed qualifications under the Metalliferous Mines Regulations, 1961, appointed by the owner or agent of the mine for the overall management, control, supervision and direction of the mine.

**1.3 Mine shall only be worked in daylight hours.**

1.4 No person shall be employed in the mine unless he has been imparted vocational (V.T.) training as required under Rule 6 to 9 and on-the-job training(s) as required under Rule 13 to 15 of the Mines Vocational Training Rules, 1966.

1.5 The details of all persons including contractual persons employed in the mine shall be entered in Form 'A' as required under Section 48 of the Mines Act, 1952 and Rule 77 of the Mines Rules, 1955 and kept maintained in the office of the mine.

1.6 No person shall be employed in the mine unless the attendance is recorded in registers. The mine management may maintain such attendance in electronic form as stated in the Gazette Notification Vide No: G.S.R. 154(E) dated 21st February 2017 published in EXTRAORDINARY PART II—Section 3—Sub-section (i) under Ease of Compliance to Maintain Registers under various Labour Laws Rules, 2017 which shall be accessible in the office of the mine.

1.7 Hours and limitation of employment in respect of above ground and opencast workings as prescribed in Section 28 to 35 of the Mines Act, 1952 shall be applicable for contractual employee However to ensure constant statutory supervision in the mine, the shift / relay timings of contractor's workers and departmental workers shall be the same.

1.8 The management shall indemnify the occupants/owners of the houses/ dwellings/ buildings or public authority of any structure(s), if any, against the dangers to those properties or injury to them or other persons arising out of operations conducted under this permission.

1.9 (a) No deep hole blasting shall be carried out at the mine.

(b) All other blasting operations at the mine shall be carried out strictly in accordance to the provisions of Regulations 164 of Metalliferous Mines Regulations, 1961.

1.10 No blasting shall be conducted using SME/SMS/ANFO explosive without having valid permission obtained under Regulation 155(1) & 162(5) of Metalliferous Mines Regulations, 1961.

1.11 This Directorate shall be informed as soon as the mining operations are commenced in accordance with the above relaxation. Intimation about completion of the mining operation shall also be sent promptly and in any case not later than one month thereafter.

**2.0 OPENCAST WORKING:**

**2.1 HEIGHT & WIDTH OF BENCHES:**

**2.1.1 The height of benches in overburden, ore body or other rock formation shall not be more than 6.0m or maximum digging height of the smallest machine used for digging, excavation or removal, whichever is less.**

**2.1.2 Width of any bench shall not be less than;**

**(a) width of the widest machine plying on the bench plus 2 m, or**

**(b) if dumpers ply on the bench, 3 times the width of the dumper, or**

**(c) the height of the bench, whichever is more.**

**2.1.3 When persons are employed at the working face, adequate precautions shall be taken to ensure their safety by dressing the sides of the bench.**

**2.1.4 Formation of benches shall be done from top downwards.**

**2.1.5 No person/s shall be engaged on work or allowed to travel close to high sides / benches, from where likely to fall more than 1.8 meters vertically down, unless the personnel is / were provided with and uses a safety belt/full body harness or a rope or lifeline.**

**2.1.6 Sufficient number of safety belts/full body harness shall be available at the site and shall be ensured for use of the same.**

**2.2 PRECAUTIONS AGAINST SURFACE STRUCTURES:**

2.2.1 No working shall be made or extended to any point within 45 m of any railway or of any public works or of any public road or building or of other permanent structure not belonging to the owner of the mine, in any direction of the mine without the prior permission from this Directorate.

2.2.2 Record of each round of blast giving all details of blasting parameters, ground vibrations, fly rocks etc shall be maintained in a bound paged book kept for the purpose which shall be signed & dated by the manager.

2.2.3 Provisions of DGMS (Tech) Circular No.7 of 1997 (Damage of structures due to blast induced ground vibrations) & 8 of 1982 (Danger from blasting operations in opencast workings), and other circulars/Instructions issued from time to time for the safe operating procedure shall be strictly complied.

**2.3 FENCING AROUND OPENCAST WORKING:**

2.3.1 The top edge of the opencast workings whether moving, abandoned or others shall be kept fenced with wire rope strands or barbed wire, supported by (movable) posts of timber, iron or concrete. The gap between the adjacent rope strands or wires shall not be more than 0.30 meters and bottom most member shall not be more than 0.25 meters and the top most member shall not be less than 1.0 meters from ground level.

2.3.2 At the finishing stage, opencast workings shall be fenced with masonry wall using cement concrete not less than 0.40 meters thick and not less than 1.5 meters high, with a parapet top.

**2.4 ROADS FOR TIPPERS / AND DUMPERS ETC:**

2.4.1 All roads for tippers / dumpers or other mobile machinery shall be maintained in good condition.

2.4.2 Wherever practicable, all roads from the opencast workings shall be arranged to provide one-way traffic. Where one-way traffic it is not practicable, no road shall be of width less than three times plus 5m width of the largest vehicle plying on road.

**2.4.3 All corner and bends shall be made in such a way that operator of tippers and dumpers have clear view of distance of not less than 3 times the braking distance of largest HEMM working at 40Km/hour.**

2.4.4 Where it is not possible to ensure a visibility for a distance as mentioned in clause (2.4.3), there shall be provided with two roads, each having width not less than 2 times plus 3m of largest vehicle plying on the road with a strong road divider at center with adequate lighting and reflector along the divider.

2.4.5 Where any road existing above level of surrounding area it shall be provided with strong parapet wall/embankment of following dimensions:

(a) Width at top-not less than 1 m.

(b) Width at bottom-not less than 2.5 m.

(c) The height not less than the diameter of the tyre of largest vehicle plying on the road. It may be noted that just dumping of mud or OB shall not be treated as strong parapet wall.

2.4.6 No road shall have gradient more than 1 in 16. However, the ramps with 1 in 10 gradient shall not be for more than 10m at one stretch.

**3.0 SUPERVISION :**

3.1 A person possessing First Class Manager's Certificate of Competency or a person possessing authorisation under Regulation 34 of the Metalliferous Mines Regulations, 1961, from this Directorate shall be appointed as the Manager of the mine.

3.1.1 This permission shall be deemed to be revoked as soon as the appointed manager ceases to work at the mine or tender resignation or terminated from service or the authorization granted under regulation 34 (6) of the Metalliferous Mines Regulations, 1961 is expired.

3.1.2 Mine shall not be worked and use of HEMM shall be suspended in the absence of manager with aforesaid qualification.

3.1.3 An Engineer or other competent person depending upon the scale of the machinery shall be appointed to hold general charge of the machinery and to be responsible for its installation maintenance and safe working. He shall be assisted by sufficient number of competent persons.

3.1.4 During every production shift / relay, the opencast workings shall be placed under the charge of an assistant manager (Second Class) / Foreman and during maintenance shift / relay, the workings shall be placed under the charge of at least a foreman, who shall be responsible for seeing that all the regulations and orders made thereunder are strictly complied with.

3.1.5 Adequate number of supervisors, including duly qualified personnel having Second Class Manager's Certificate of Competency / Foremen Certificate of Competency and Mining Mate Certificate of Competency shall be appointed in each working shift / relay to assist the Mine Manager. Assistant Manager, Foreman, and Mining Mate so appointed shall be responsible for seeing that all the regulations and the orders made there under are strictly complied with.

3.1.6 The drilling and blasting shall be carried out under the personal supervision of Mine Manager. Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in register kept for the purpose for each blast.

3.1.7 If, the Manager is authorised under regulation 34 (6) of the Metalliferous Mines Regulations, 1961, the mine working shall be carried out as per the restrictions or conditions stipulated in the authorisation granted.

3.1.8 Persons engaged in mining operation and including the contractor's workers shall be provided closer and competent supervision.

3.1.9 Manager shall authorize all contractor workers before deploying in opencast working.

3.1.10 Each and every operation, including the operation carried out through contractor's worker or by outside agency, shall be placed under the charge of a competent supervisor, duly appointed and authorized by the Manager.

3.1.11 Manager shall frame Safe Operating Procedure (SOP) in local language understood by most of person employed for each operation / equipment and copy of it shall be handed over to all concerned. It shall be the duty of all statutory persons to enforce the SOPs' so framed.

### **3.2 The Manager shall not manage more than one mine.**

3.2.1 The aggregate horsepower of the machinery used in opencast working shall not exceed 500, including not more than two excavators with total horsepower not exceeding 200 shall be deployed at the mine

3.2.2 The total amount of explosive used per day in such workings shall not exceed 100 kg.

3.2.3 Avarage employment does not exceed 75 in all in the mine.

3.2.4 No ore dressing/handling/processing plant is attached with the mine.

### **3.3 Duties of Manager:**

3.3.1 It shall be duty of Manager,

a. to ensure compliance with the aforesaid precautions

b. to determine compliance and specify in respect of every vehicle the maximum load to be hauled and maximum speed of the vehicle and cause notices specifying the same to be posted along the road at appropriate places;

c. to cause warning notices (drawing attention to any necessary precautions) to be posted along the truck or haulage roads at appropriate places like crossing, curves and turning points etc.

d. to designate the persons authorized to ride on trucks.

to give every truck driver direction in writing with respect to loads, speed, persons authorized to rides on trucks and precautions necessary for safe running

e. to countersign entries in books and records to be maintained in pursuance of these precautions.

f. to take such other precautionary measures as may be necessary to ensure safe operation and maintenance of transport vehicles and for the safe work persons.

#### **3.3.2 Manager shall ensure that,**

a. **Frequent inspections are made for evidence of slides or of material that may slide or roll from the high wall (including the face and sides) or spoil banks;**

b. **No person shall be allowed to work under overhanging ledges or where there is evidence of slides, until such danger has been removed;**

c. **Every person engaged in dressing operations on high walls / sides is provided with, and uses, a safety belt of a type approved by the Chief Inspector;**

d. **All loose material is removed from high wall / slide before persons are engaged thereand;**

e. **Parapet walls along truck roads are properly maintained.**

### **4.0 DESIGN & MAINTENANCE OF HEAVY EARTH MOVING MACHINERY (HEMM):**

4.1 Every Heavy Earth Moving Machinery shall be maintained in good and safe working condition. For this purpose the layout of the workshop for maintenance of HEMM and other equipments shall be as per requirement mentioned in the DG's Circular No. 8 of 2003.

4.2 Every Heavy Earth Moving Machinery shall be provided with;

(i) adequate front and rear lights;

(ii) efficient brakes;

(iii) Audio-Visual warning device, which shall be actuated automatically to produce both audible and visual warning system during reversal of machinery;

(iv) any other advanced mechanism like rear vision system etc.

4.3 Every shovel shall be so designed as to afford the operator clear and uninterrupted vision all around.

4.4 Operators cabin of every HEMM shall be well designed and substantially built so as to ensure adequate protection to the operator against heat, dust, noise etc., and at the same time provide adequate safety to the operator in the event of overturning of heavy earth moving machinery. A seat belt & seat belt reminder for the operator shall also be provided.

4.5 The code of instructions furnished by the manufacturers in the matter of maintenance of various machinery and vehicles and preventive maintenance schedules for each type of machinery and vehicle shall be strictly followed.

4.6 Every machine shall be allocated at least one day in every week for maintenance. Before the machine is sent out for work after maintenance, it shall be thoroughly inspected by the engineer or other competent person authorized by the Manager in writing, who shall satisfy himself that the machine is mechanically sound and in efficient working order.

- 4.7 A report of every inspection made under clause (4.6) shall be recorded in a bound paged book kept for the purpose and shall be signed and dated by the person making the inspection and countersigned by the engineer.
- 4.8 Every machine in use shall be thoroughly inspected once at least in every 24 hours by a competent person duly authorized by the Manager of the mine.
- 4.9 If the engineer or other competent person making inspection, notices any defect in any machinery, the said machinery shall not be used until the defect has been remedied.
- 4.10 Any defect in a machinery reported by its operator shall be promptly attended to.
- 4.11 Any machine found to be in an unsafe operating condition shall be tagged at the operator's position "OUT OF SERVICE, DO NOT USE" and its use shall be prohibited until the unsafe condition has been corrected
- 4.12 All repair to machinery shall be done at a location, which will provide a safe place for the persons engaged on repairs
- 4.13 Except for testing, trial, or adjustment, which must necessarily be done while the machine is in motion, every machine shall be shut down and positive means taken to prevent its operation while any repair or manual lubrication is being done.
- 4.14 Any machinery, equipment, or part thereof which is suspended or held apart by use of slings, hoists, jacks shall be substantially blocked or cribbed before men are permitted to work underneath or between such machinery, equipment or part thereof.
- 4.15 Power shall be disconnected when repairs are made to any electrical machinery.
- 4.16 While inflating tyres of transport vehicles, suitable protective cages shall be used. Tyres shall never be inflated by standing/sitting either in the front or on the top of the same.
- 4.17 Only such fitters or mechanics, who possesses driving license under Motor Vehicles Act, 1988, wherever applicable, shall be authorized by the Manager to test-run the HEMM.
- 4.18 The brakes of all tippers / dumpers and other transport machinery shall be tested at least once in every fortnight by a competent person duly authorized by the manager of the mine in manner detailed below:  
**Service Brake Test** : The Service brake shall be tested with the tippers are fully loaded condition on a specified gradient and speed. It shall stop within a specified distance by the manufacturer of the vehicle when the service brake is applied.  
**Parking Brake Test** : The parking brake shall be capable of holding the tippers are when fully loaded and placed on maximum gradient of roadway which is permitted, for a period of at least ten minutes.  
However, DGMS (Tech) Circular No. 04 of 2012 (Accidents due to dumpers from failure of brake & steering systems) and other circulars/Instructions issued from time to time for the safe operating procedure shall be strictly complied.
- 4.19 A record of all such test shall be maintained in a bound paged book kept for the purpose and shall be signed by the competent person carrying out the test and countersigned by the engineer and manager of the mine.
- 4.20 Every dumper/tipper shall be provided with automatically operating audio-visual reversing alarm, which shall always be kept in working order.
- 4.21 No person shall be permitted to work on the chassis of tipper / dumper with the body in a raised position until the tipper / dumper body has been securely blocked position. The mechanical hoist mechanism alone shall not be depended upon to hold the body of the tipper / dumper in raised position.
- 4.22 All HEMM shall be equipped with suitable portable fire extinguisher(s) in addition to automatically operated fire detection and suppression device or System.
- 4.23 Hydraulic hoses, electric wires, sleeves, and conduits (where cable/wire is passed) of fire-resistant quality shall be provided in all HEMM.
- 4.24 No tractor-trailer combination shall be allowed on haul roads. (Where inevitable, only four wheel trailers with separate brakes of their own shall be used).

**5.0 In addition to general requirement mentioned above, the following safety devices / features specific to machines shall be provided:**

**5.1 (A) In dumper:**

- (a) Mechanical steering locking to prevent untoward movement of steering wheel and tyre during work persons working below the cabin while engine is running.
- (b) Mechanical type device to protect operator in case of head to tail collision of dumpers.
- (c) Limiting speed device to limit the speed as per working conditions.
- (d) Propeller shaft guard.
- (e) Proximity warning device

- (f) Dump body raised position indicator with warning.
- (g) Retarder system in addition to service, parking and dump brakes.
- (h) Rock ejectors for tandem tyres.
- (i) Body raised position mechanical locking arrangement
- (j) Engine cut off arrangement / battery cut-off switch on front lower portion of the dumper.
- (k) Warning system for operator fatigue
- (l) Load indicator.
- (m) Auto Dipping System
- (n) Rear vision camera
- (o) Exhaust brake

**(B) In Tipplers:**

- (a) Cabin guard extension / canopy fully covering operator's cabin.
- (b) Exhaust/retard brake.
- (c) Propeller shaft guard
- (d) Limiting speed device
- (f) Dump Body raised position indicator with Warning.
- (h) Dump body stabilizers.
- (i) Proximity warning device.
- (j) Auto dipping System
- (k) Load Indicator.
- (l) Rear vision camera
- (m) Warning system for Operator Fatigue

**(C) Hydraulic Excavators:**

- (a) All functions cut off switch
- (b) Swing Motor Brake and Swing lock
- (c) Parking Brake.
- (d) Vent valve on top of hydraulic tank (should be able to be removed without any tool).
- (e) Provision for Limiting of hydraulic cylinders-Stoppers.
- (f) Battery cut off switch outside cabin
- (g) Two-way communication system other than mobile phone in Operator's Cabin.

**(D) Rope Shovels & Draglines (where applicable)**

- (a) All functions, such as Crowd, Hoist, Swing, Propel and Drag shall be provided with 'ON' type brake so as to automatically apply the brake in case of Electrical power failure.
- (b) Travel limit switches for crowd, hoist and Drag functions as applicable.
- (c) Limit switch for boom movement.
- (d) Two-way communication system other than mobile phone in Operator's Cabin
- (e) Boom crack monitoring system in Draglines.

**(E) DRILLS:**

- (a) Dust prevention or suppression system provided in the Drills shall conform to DGMS circular no. DGMS(S&T)/ circular (Approval) No 1, dated 10.03.2017.
- (b) Emergency 'Stop' push button in
  - (i) Operator's cabin
  - (ii) Main frame.
  - (iii) Propeller pendent
  - (iv) Rear end
- (c) Over Temperature protection devices, in motor winding and other related parts.
- (d) Explosive vent in transformer.
- (e) Interlock between propel and drilling operations.
- (f) High air discharge temperature trip switch
- (g) Low lube oil pressure cut off switch (engine and compressor)
- (h) Oil stop valve (electric solenoid valve in compressor lubrication line)
- (i) No bump circuit
- (j) Tower lock.
- (k) Propel joystick-spring loaded type to return to neutral (dead man safety)
- (l) Lock check valves for preventing creeping in drill
- (m) Unloader valve
- (n) Stabilizers
- (o) Breakout wrench

- (p) Each moving part of the machinery shall be guarded/fenced and also its effectiveness ensured all the time.
- (q) Turbo charger guard
- (r) Cabin for the operator.
- (s) Disc- brake and brake valve and its testing parameters.

5.2 Suitable steps shall be taken to ensure the minimum design requirements for various Safety Features to be incorporated for use in Heavy Earth Moving Machinery (HEMM) & Heavy / Light vehicles in Open Cast Mines mentioned at Point No. 4.0 & 5.0. In this connection, the requirements of DGMS (Tech.) circular No's 06 of 2020 Dated 27.02.2020 shall be strictly complied with.

**6.0 DAILY EXAMINATION OF HEMM:**At the commencement of every shift / relay, the Engineer, or other authorized competent persons herein after called "competent person" shall personally inspect and test every HEMM paying special attention to the following details:

- 6.1 That the brakes and the horn or other warning devices are in working & is required to work after day light hours.
- 6.2 Competent person shall not permit the HEMM to be taken out for work nor shall drive the unless it is satisfied mechanically sound and in efficient working order.
- 6.3 Competent person shall also maintain a record of every inspection in a bound paged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

#### **7.0 OPERATION OF HEAVY EARTH MOVING MACHINERY (HEMM).**

- 7.1 No person other than the operator so authorized in writing by the Manager shall operate the machinery **(HEMM)**.
- 7.2 Operator of each HEMM shall be selected from amongst persons possessing requisite qualifications. The selection process shall comprise a test to check operating skill, aptitude, health, and oral examination of the candidate by a competent selection committee. The selected person shall be trained and their competency shall be evaluated by a board constituted by the mining company.
- 7.3 The Manager of the mine shall frame a Standard Operating Procedure (SOP) / Code of Practice (COP) for safe operation of heavy earth moving machinery and ensure its compliance.
- 7.4 To prevent unauthorized operating, a system shall be evolved whereby the ignition key and / or cabin key always remain with the driver/operator or with specifically designated competent person
- 7.5 As far as possible, loaded tippers / dumpers shall not be reversed on gradients.
- 7.6 While reversing a tippers / dumpers at dump yard/stopping point suitable mechanism like stop blocks/carthen bund etc. shall be provided to prevent / tippers / dumpers from approaching towards edge of dump.
- 7.7 "The Code of Traffic Rules" shall be framed by the Mines Manager for the movement of all tippers / dumpers and shall be prominently displayed in Multi language or the language understood by persons employed at the relevant places as decided by Mines Manager in the opencast workings of the mine and shall strictly complied with:
- 7.8 When not in use every tippers / dumpers or other transport machinery shall be moved to and parked at proper parking places.
- 7.9 No shovel or excavator shall be operated in a position where any part of the machine, suspended loads or lines are brought closer than three meters to exposed high voltage lines, unless the current has been cut off and the line de-energized. A notice of this requirement shall be posted at the operator's control panel.
- 7.10 Electrical cables, if any shall be laid in such a manner that they are not endangered either by falling rocks or by mobile equipment.
- 7.11 If more than one stripping machine is in use in any area, either on the same bench or on different benches the machines shall be so spaced that there is no danger of accident from flying or falling objects etc. from one machine to the other.
- 7.12 No unauthorized person shall be permitted to enter or remain in any dumping yard or turning points.
- 7.13 While HEMM is being loaded / unloaded on a gradient, the same shall be secured on a stationary position by parking brake and any other suitable mechanism.

#### **8.0 DUTIES OF OPERATORS OF HEAVY EARTH MOVING MACHINERIES, EXCLUDING TIPPERS AND DUMPER.**

- 8.1 At the commencement of every shift / relay, the operator shall personally inspect and test the machine and protective devices, as stipulated in this respect by the engineer in consultation with the Manager and manufacturer/supplier. Maintain a record of every such inspection in a bound paged book kept for the purpose and shall sign every entry made therein.

8.2 Operator shall not take out the machine for work nor shall work the machine unless satisfied that machines are mechanically sound in efficient working order.

8.3 The operator shall not operate the machine when persons are in such proximity as to be endangered.

8.4 Operator shall not swing the bucket of a shovel over the passing haulage units or over the cabin of units being loaded.

8.5 Lower the bucket to ground, switch- off the power supply to the machine or stop the prime mover and lock the cabin door before leaving the machine

8.6 The operator shall not allow any unauthorized person to ride on the machine.

8.7 It is required to strictly adhere to the codes of practices and safe operating procedures while operating the machinery.

8.8 It is required to enter the condition of the machine at the end of his shift in the register or book maintained under the clause (8.1) for necessary information of his successor.

#### **9.0 DUTIES OF TIPPERS / DUMPER OPERATORS:**

9.1 At the commencement of every shift / relay, the operator shall personally inspect and test the machine and protective devices, as stipulated in this respect by the engineer in consultation with the Manager and manufacturer/supplier.

9.2 Maintain a record of every inspection made under clause (9.1) in a bound paged book kept for the purpose and shall sign every entry made therein:

9.3 Operator shall not take out the machine for work nor shall operate the machine unless it is satisfied that it is mechanically sound and in efficient working order.

9.4 Operator shall not drive too fast, shall avoid distraction, and shall drive defensively. There shall not any attempt to overtake another machine unless operator can see clearly far enough ahead to be sure that can pass it safely giving an audio warning signal before overtaking.

9.5 When approaching stripping equipment, the operator of the tippers / dumpers shall sound the audio-visual warning signal and shall not attempt to pass the stripping equipment until driver has received a proper audio-visual signal in reply.

9.6 Before crossing a road or railway line, operator shall reduce the speed, look in both directions along the road or railway line, and shall proceed across the road or line only if it is safe to do so.

9.7 The operator shall sound the audible warning signal before while approaching 'blind' corners or any other points from where persons may walk in front unexpectedly.

9.8 The operator shall not operate the tipper / dumper in reverse unless an adequate clear view of the area behind the machine.

9.9 Operator shall give an audio-visual warning signal before reversing a tipper / dumper.

9.10 The operator shall be sure of clearance before driving through tunnels, archways, plants, structures etc.

9.11 The operator shall see that the machine is not overloaded and that the material is not loaded in a tipper / dumper so as to project horizontally beyond the sides of its body and that any material projecting beyond the front or rear is indicated by a red flag during day and a red light after day light hours.

9.12 The operator shall not allow any unauthorized persons to ride on the machine.

9.13 As far as possible loaded tippers or dumper shall not be reversed on gradient.

9.14 Strictly adhere to the traffic rules and safe operating procedures while operating the machinery.

9.15 Enter the condition of the machine at the end of his shift in the register or book maintained under the clause (9.2) for necessary information of his successor.

#### **10.0 DUTIES OF DRILL OPERATORS**

10.1 At the beginning of the shift / relay, the drill operator shall examine the drilling equipment and satisfy himself that –

- a. Crown blocks are mounted securely
- b. Where compressed air drills are used, all hose's connections are in order
- c. The drill equipment is in safe working condition.

10.2 The drill operator shall ensure that-

- a. Persons keep clear of augur and drill stem while the drill is in motion
- b. Persons do not work or stand under suspended tools, when tools are removed from the holes, these shall be lowered on the platform.
- c. All finished drill holes are properly plugged so as to avoid possible leg injuries to any one accidentally stepping in to the holes.

#### **11.0 ADDITIONAL DUTIES ENGINEER IN CHARGE OF HEMM IN OPENCASST WORKINGS:**

11.1 During each shift / relay the HEMM and vehicles at work shall be placed under the charge of qualified and experienced Engineer for inspection, examination, safe operations and maintenance of the HEMM. During the shift / relay the competent shall;

- (a) inspect, examine machines, equipment's satisfy himself that they are in sound and safe working order;
- (b) not allow any machine and vehicles to be used, if it is found defective;
- (c) ensure that HEMM used is in a safe and efficient order;
- (d) ensure that each operation, activity is carried on in safe and efficient manner.

11.2 Surprise inspection shall be carried out by the Engineer / competent person / Superior official at an interval not exceeding 15 days to ensure that the examination schedule of machinery / equipment is carried out and the same shall be recorded in the bound paged book kept for the purpose and signed by the engineer.

## **12.0 SPOIL BANKS:**

12.1 The spoil bank shall be designed and maintained scientifically paying special attention to the following details:

- a. Spoils, overburden or debris shall be deposited at places belonging to the mine and duly approved by the Manager in writing.
- b. Spoils, overburden or debris shall not be deposited beneath transmission, telephone or power lines or near any public structures.
- c. The slope of a spoil bank face shall be determined by natural angle of repose of the material being deposited, but shall in no case exceed 37.5 degree from the horizontal. The spoil bank face shall not be retained by artificial means at an angle in excess of its natural angle of repose.
- d. Spoils, overburden or debris shall not be deposited within 45 m of a railway or other structures and it shall not be permitted to approach any of the above said structures closer than a distance equal to 1.5 times the vertical height of its face.

12.2 The toe of the spoil bank shall not approach Railway or other public works, public road or building or other permanent structures not belonging to the owner of the mine closer than a distance equal to twice the vertical height of the spoil bank.

12.3 A suitable fence shall be provided between any railway or public works or road or building or structure and the toe of an active spoil-bank so as to prevent unauthorized persons from approaching the spoil bank.

12.4 No person shall, or shall be permitted to approach the toe of an active spoil bank where it may be endangered from material rolling down the face. Suitable signs for warning the persons at conspicuous places shall also be displayed.

12.5 Any spoil bank exceeding 10 meters in height shall be benched so that no bench exceeds 10 meters in height and general slope does not exceed 1 vertical to 1.5 horizontal.

12.6 Wherever space permits, every mine shall establish a system whereby loading and unloading operations in the stock yard are not done simultaneously for elimination of risk element in the operations. In case adequate space is not available, mine management shall organize suitable traffic regulations for eliminating risk element in the operations.

12.7 Extraction of mineral by reclamation from dump or stock pile/yard shall be treated as working of opencast benches with loose overburden and all the precautions in respect of working of opencast benches with loose overburden shall be taken.

**13.0 PRECATUIONS WHILE DRILLING:**The position of every shot - hole to be drilled shall be distinctly marked by the mine Foremen so as to be readily seen by the drillers.

**14.0 TRANSPORT AND USE OF EXPLOSIVES:**Where explosives are transported for blasting, the following precautions shall be taken:

14.1 Transport of explosives from the magazine to the priming station or the site of blasting shall not be done except in original wooden or cardboard packing cases. The quantity of explosive transported at one time to the site of blasting shall not exceed the actual quantity required for use in one round of shots. Explosives shall be transported to the site of blasting not more than 90 minutes before the commencement of charging of the holes.

14.2 In accordance with D.G.'s Approval Circular No. 2 of 1986, No mechanically propelled vehicle shall be used for the transport of explosives unless it has a valid license under Rule 61 of the Explosives 2008 and by strictly following the conditions stipulated there with.

14.3 Every vehicle used for transportation of explosive shall be marked or placarded on both sides and ends with the word 'Explosives' in white letters not less than 15 cm high on a red background.

14.4 Every mechanically propelled vehicle transporting explosives shall be provided with not less than two fire extinguishers (one of carbon tetrachloride type for petroleum fire and the other of carbon dioxide under pressure type for electrical fire) suitably placed for convenient use.

14.5 The vehicle used for transport of explosives shall not be overloaded and in no case shall the explosive cases be piled higher than the sides of its body.

14.6 Explosives and detonators shall not be transported in the same vehicle, at the same time.

14.7 No persons other than the authorized driver and the helper so authorized shall ride on a mechanically propelled vehicle used for transport of explosives.

14.8 Explosive Van / vehicle loaded with explosive shall not be left unattended.

14.9 Engine of a vehicle transporting explosives shall be stopped and the brakes set securely before it is unloaded or left standing.

14.10 A vehicle transporting explosives shall not be driven at a speed exceeding 25 kilometers per hour.

14.11 A vehicle loaded with explosives shall not be taken into garage or repair shop and shall not be parked in a congested place.

14.12 A vehicle transporting explosives shall not be re-fueled except in emergencies and only when its engine is stopped and other precautions taken to prevent accidents.

14.13 No trailer shall be attached to a Explosive Van / Vehicle transporting explosives.

14.14 Every vehicle used for the transport of explosives shall be carefully inspected once in every 24 hours by a competent person to ensure that:

(a) fire extinguishers are filled and in place;

(b) the electric wiring is well-insulated and firmly secured;

(c) the chassis, engine and body are clean and free from surplus oil and grease;

(d) the fuel tank and feed lines are not leaking; and

(e) lights, brakes, and steering mechanism are in good working order.

14.15 Report of every inspection made under clause (13.15) shall be signed and dated by competent person making an inspection.

14.16 All operations connected with transport of explosives shall be conducted under the personal supervision of a person holding at least Foreman Certificate of Competency in charge of blasting operations at the mine.

14.17 No person shall be appointed to be a blaster unless he is the holder of Manager's, Foreman's, Mate's or Blaster's certificate.

14.18 The blaster shall personally search every person engaged in the transport and use of explosives and shall satisfy himself that no person so engaged has in possession any cigarette, 'biri' or other smoking apparatus, or any match or any other apparatus of any kind capable of producing a light, flame or spark.

14.19 Supply, issue, use and return of explosive records shall be maintained with authentication.

14.20 As required under Regulation 160(4) of Metalliferous Mines Regulation, 1961, no person whose wages / payment depend on the amount of mineral, rock or debris obtained by firing shots, shall be appointed to perform the duties of a blaster. No outside person shall perform the duties of the blaster and it shall be done only by statutory person appointed at the mine.

## **15.0 CHARGING OF HOLES:**

15.1 Explosives shall be delivered first to the hole farthest from the priming station, so as to avoid persons walking among piles of explosives and charged holes.

15.2 Not more than one hole shall be charged at any one face at any one time.

15.3 Only moistened sand / aggregate of suitable size shall be used as stemming material.

15.4 All charging, stemming and connecting-up shall be done while standing on solid, that is to say, on the side of holes away from the quarry face. Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in the register kept for the purpose for each blast.

15.5 Burden and spacing shall be suitably adjusted to ensure proper fragmentation, effective utilization of explosive energy and throw of debris / ore do not exceed 10m.

15.6 Notwithstanding what is contained in Regulation 164 of the Metalliferous Mines Regulations, 1961 no person other than blaster and blaster's assistants, if any, shall be permitted to remain within a radius of 20m or within 60m on the same bench where charging of holes with explosives is being carried out.

15.7 Faces shall be maintained free from loose stones, pebbles. Vertical (or near vertical) free face shall not be blocked.

15.8 Notwithstanding anything contained in the Metalliferous Mines Regulations, 1961 Preparation of charges and the charging and stemming of holes shall be carried out under the personal supervision of a Mine Foreman who shall fire the shots himself/Mining Mate/Blaster/Competent person appointed by the owner.

15.9 Use of Cellular phones and two-way transmitters while handling the explosives including preparing and charging of the same and in fuel filling stations is forbidden and shall be ensured and all the provisions vide No.DGMS (Tech) Circular No.2 of 2005 dated 27.1.2005 in this regard shall be strictly complied. The provisions of Circular 70/1966 (Specifications of cables for shotfiring), Circular 25/1974 (Approval of shotfiring cables) shall be strictly complied.

#### **16.0 PRECAUTIONS DURING FIRING:**

16.1 Shots shall not be fired except during hours of day-light. All holes charged on any one day shall be fired on the same day.

16.2 As far as practicable, shot firing shall be carried out either between shift / relays or during the rest interval, or at the end of work for the day.

16.3 Precautions with regards to taking shelter etc as laid down in Regulation 164 of the Metalliferous Mines Regulations,1961 shall be complied with to ensure that there is no danger to life and property (Whether or not belonging to the owner) due to this operation. It shall be ensured that the fly rocks during blasting shall not go beyond 10m from the place of firing by doing effective muffling.

16.4 During the approach and progress of an electric storm, the following precautions shall be taken:

(a) no explosive, particularly detonators, shall be handled;

(b) if charging operations have been commenced, the work shall be discontinued until the storm has passed;

(c) if the blast is to be fired electrically, all exposed wires shall be coiled up and if possible, placed in the mouth of the holes, or kept covered by something other than a metal plate/ conductive material;

(d) all wires shall be removed from contact with the steel rails or a haulage track to prevent the charge being exploded prematurely by a local strike of the lightning.

16.5 The danger zone shall be distinctly demarcated (by means of red flags properly arranged and supported) before charging of holes is to commence.

16.6 Before firing, a siren installed for the purpose shall be blown three times for one minute each at intervals of one minute; and no shots shall be fired unless the blasting foreman with assistance of sufficient number of persons appointed in writing by the Manager for the purpose has ensured that all persons have left the danger zone or have taken adequate shelter.

16.7 No shot shall be fired when there is traffic on any road or railway track within the danger zone. The provisions vide No. DGMS(Tech) Circular No.2 of 2005 dated 27.1.2005, Circular 70/1966, Circular 25/1974 shall strictly complied.

**17.0 PRECAUTIONS AGAINST FIRE:**Arrangements for fighting fire shall be provided on all Heavy Earth Moving Machinery. Such arrangements shall, if possible, operate automatically on appearance of fire.

**18.0 PRECAUTIONS AGAINST DUST:**Adequately arrangements to suppress dry dust by wetting shall be made. If during any operation of drilling, loading, unloading, crushing, dressing etc., dust is likely to be produced in such quantity (not more than 3 mg/m<sup>3</sup>) as may be injurious to the health of persons, as also on roads and benches where and dumpers operate. Dust Survey shall be done as laid down in Regulation 124 of the MMR, 1961.

**19.0 PROTECTION OF WORKERS AGAINST NOISE AND VIBRATION IN THE WORKING ENVIRONMENT:** Suitable steps shall be taken by all appropriate means to reduce the exposures of workers to any excessive noise and vibration. In this connection, the requirements of DGMS (Tech.) circular No's 18 of 1975 (protection of workers from noise and vibrations) & 5 of 1990 (Protection of workers against noise) shall be strictly complied with.

**20.0 PROTECTIVE EQUIPMENTS:**Every person working in the opencast workings including workshops, other surface installations, yards etc. shall be provided with and shall use protective foot-wear and helmets of a type approved by the Chief Inspector and such other protective equipment's as may be prescribed from time to time by the Chief Inspector or the Regional Inspector in accordance with the provisions of Regulation 182, 182A & 182B respectively.

#### **21.0 CONTRACTOR WORK VIS-À-VIS SAFETY:**

##### **A) Employer's responsibilities:**

(i) Suitable clauses (in consistence with risk of the work allotted) shall be included in tender document (including NITs) stating how the risk arising to men & material from the mining operation/operations to be done by the contractors shall be managed.

- (ii) Ensure that contractors are familiar with the relevant parts of the statute, health and safety management system and are provided with copies of such documents prior to commencing work.
- (iii) Ensure that contractor's arrangements for health and safety management are consistent with those for the mine owner. All the rules, regulations, and bye-laws as applicable to the mine owner are also applicable to the contractor. Details of the contractor's workmen should be maintained in the owner's Form-A register. Whereas, attendance Registers in Form-D for contractor's men may be maintained independently by the owner. All the above Registers shall be kept in the mine office of the manager.
- (iv) Ensure that contracts should preferably be of longer period (three years), so that there is adequate scope of management of safety by the contractor.
- (v) Ensure that the contractor's provide the machinery, operator and other staff with written safe work procedures for the work to be carried out, stating clearly the risk involved and how it is to be managed.
- (vi) Monitor all activities of the contractors to ensure that contractor are complying with all the requirements of statute and the system related to safety. If found non-compliance of safety laws directing the contractor to take action to comply with the requirements, and for further non-compliance, the contractor may be suitably penalized. Clause of this affect may be part of the agreement between the employer and the contractor.
- (vii) Where a risk to health or safety of a person arises because of a non-compliance directing the contractor to cease work until the non-compliance is corrected.

#### **B) Contractor's responsibilities:**

- (i) Prepare written Safe Operating Procedure (SOP) for the work to be carried out, including an assessment of risk, wherever possible and safe methods to deal with it/them.
- (ii) Provide a copy of the SOP to the person designated by the mine owner who shall be supervising the contractor's work.
- (iii) Keep an up-to-date SOP and provide a copy of changes to a person designated by the mine owner.
- (iv) Ensure that all work is carried out in accordance with the Statute and SOP and for the purpose he may deploy adequate qualified and competent personnel for the purpose of carrying out the job in a safe manner.
- (v) For work of a specified scope/nature, develop and provide to the mine owner a site-specific code of practice.
- (vi) Ensure that all sub-contractors hired by him comply with the same requirement as the contractor himself and shall be liable for ensuring compliance all safety laws by the sub or sub-sub contractors.
- (vii) All persons deployed by the contractor for working in a mine must undergo vocational training, initial medical examination, PME. They should be issued cards stating the name of the contractor and the work and its validity period, indicating status of VT & IME.
- (viii) Every person deployed by the contractor in a mine must wear safety gadgets to be provided by the contractor. If contractor is unable to provide, owner / agent/ manager of the mine shall provide the same.
- (ix) The contractor shall submit to DGMS returns indicating- Name of his firm, Registration number, Name and address of person heading the firm, Nature of work, type of deployment of work persons, Number of work persons deployed, how many persons hold VT Certificate, how many work persons undergone IME and type of medical coverage given to be work persons. The return shall be submitted quarterly (by 10th of April, July, October & January) for contracts of more than one year. However, for contracts of less than one year, returns shall be submitted monthly.

#### **C) Employee's responsibilities:**

- (i) An employee must, while at work, take reasonable care for the health and safety of people who are at the employee's place of work and who may be affected by the employee's act or omissions at work.
- (ii) An employee must, while at work, cooperate with his or her employer or other persons so far as is necessary to enable compliance with any requirement under the act or the regulations that is imposed in the interest of health, safety and welfare of the employee or any other person.

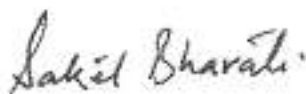
It shall be the duty of the Manager to issue duty charts (in the language which is understood by the person concerned) to various Operators/Supervisors connected with the use of Heavy Earth Moving Machinery. Manager and Engineer shall be responsible to ensure that all the precautions and guidelines listed in the permission are strictly followed.

## **22.0 MISCELLANEOUS:**

22.1 At gate the license of the drivers shall also be checked for eliminating the possibility of unlicensed persons driving the vehicle. In order to check the entry of such vehicle in the mine premises, properly manned check gate shall be provided at the mine entrance where the record of entry & exit of each vehicle shall be maintained. Before the pass is issued the mine engineer/competent person shall check the roadworthiness of such vehicle. Tippers / Dumper and other HEMM, not belonging to management shall not be allowed in the mine premises without a valid pass issued by the competent authority of the mine.

- 22.2 All persons engaged at any work within the mine premises through the contractors shall be provided with relevant training and other job-related briefings and it shall be ensured that the drivers of the vehicle belonging to contractors entering the mine premises have additionally been explained the salient provisions of "Traffic Rules".
- 22.3 An embankment of substantial construction and adequate dimension shall be provided between the quarry workings and seasonal Nallahs/odai/pond etc existing near the side of the proposed opencast workings. No workings shall be made within horizontal distance of 15 m from the HFL / Embankment of any River /Nallah /odai / pond etc.
- 22.4 During the Monsoon period one guard shall be posted round the clock at a conspicuous place near the embankment created against the said Nallahs /odai / pond with communication and illumination facilities.
- 22.5 The surface garland drains shall be made all round at level higher than top most bench of the proposed working to arrest entry of surface rain water into the proposed area of working.
- 22.6 Land destroyed due to extraction of mineral by opencast method shall be reclaimed simultaneously by in-pit dumping as the workings progress from one end to another.
- 22.7 No electrically operated machine, equipment and accessories shall be energized, commissioned, and used without prior approval of the competent authority under the relevant provisions of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023.
- 22.8 All the precautions and directives given in DGMS circulars issued from time to time shall be compiled with.
- 22.9 The Owner, Agent and Manager shall ensure that the aforesaid conditions are made known to all concerned. They shall also ensure that every such person has fully understood the same and complies with them.
- 22.10 At least three months before the expiry of this permission, the management shall apply for extension/revalidation of the permission.
- 22.11 This permission is valid for a period of **05 (FIVE) years** from the date of issue of the letter or the validity of the mining lease, whichever is earlier.
- 22.12 These governing conditions are being issued specifically under the regulations mentioned above and without prejudice to any other provision of law, which may be or may become applicable at any time.
- 22.13 Any additions, alterations, or modifications to the installations, if found necessary in the interest of safety, by the inspecting officer during the inspection at a later date shall be carried out without any further delay.
- 22.14 These governing conditions may be amended or withdrawn at any time should it be considered necessary in the interest of safety.
- 22.15 **If anything is found to be falsified / concealed by applicant while seeking this permission as required under the applicable statute, this permission shall deem to be withdrawn with immediate effect.**
- 22.16 In the event of any change in the circumstances connected with the use of HEMM which is likely to endanger the life of workmen employed in the mine, operation for which these conditions have been imposed shall be stopped forthwith and intimation thereof sent to this Directorate. The said mining operation shall not be resumed without an express and fresh authority to that affect in writing from this Directorate.
- 22.17 A hard copy of this permission shall always be kept available in the office of the mine for reference.

Your Faithfully



SAKET BHARATI (DIRECTOR - BENGALURU REGION)

THIS IS A SYSTEM GENERATED DOCUMENT, DOES NOT REQUIRE ANY SIGNATURE.

**अनुज्ञापि प्ररूप एल. ई.-3 | LICENCE FORM LE-3**

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)  
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञापि  
Licence to possess : (c) for use,explosives of class 1, 2,3,4,5,6 or 7 in a magazine

अनुज्ञापि सं. (Licence No.) : E/SC/KL/22/1764(E50911)

वार्षिक फीस रूपए (Annual Fee Rs): 2400/-

1. Licence is hereby granted to

M/s KLR GRANITES (अधिभोगी / Occupier : **Joshy A. Chemparathy**), Joshi A. Chemparathy (Mg. Partner), No.27/906, Josh Building, Kothayikkunnu Bye Pass, Town/Village - Thodupuzha, District-IDUKKI, State-Kerala, Pincode - 689692



को अनुज्ञापि अनुदत्त की जाती है।

2. अनुज्ञापिधारी की प्रास्थिति | Status of licensee : **Partnership Firm**

3. अनुज्ञापि निम्नलिखित प्रयोजनों के लिए विधिमान्य है।

Licence is valid only for the following purpose.

possess for use of Nitrate mixture - Slurry and Emulsion Explosives, Safety Fuse, Electric Detonators, Ordinary Detonator, - के उपयोग के लिए

4. अनुज्ञापि विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।

Licence is valid for the following kinds and quantity of explosives: - (क) (a)

क्र. सं.	नाम और विवरण	वर्ग और प्रभाग	उप-प्रभाग	मात्रा किसी एक समय में
Sr. No.	Name and Description	Class & Division	Sub-division	Quantity at any one time
1.	Nitrate mixture - Slurry and Emulsion Explosives	2,0	0	100 Kg.
2.	Safety Fuse	6,1	0	2000 Mtrs
3.	Electric Detonators	6,3	0	1500 Nos.
4.	Ordinary Detonator	6,3	0	2000 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञापि के लिए]

(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)]:

20 times as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापि परिसर की पुष्टि होती है।

The licensed premises shall conform to the following drawing(s):

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1764(E50911)

दिनांक (Dated) 20/09/2023

6. अनुज्ञापि परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:

Survey No. 581/1-4, ग्राम (Town/Village) : **Konni-thazham village, Kuzhancherry taluk**

जिला (District) **PATHANAMTHITTA** पुलिस थाना (Police Station) : **Koani** राज्य (State) **Kerala** पिनकोड (Pincode) **689692**

दूरभाष (Phone) ई.मेल (E-Mail)

फैक्स (Fax)

7. अनुज्ञापि परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।

The licensed premises consist of following facilities.

two mini magazines of stone masonry construction

8. अनुज्ञापि समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपायधर्मों के अधीन रहते हुए अनुदत्त की जाती है।

The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2004 framed there under and the conditions, additional conditions and the following Annexures.

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निरमाण संबंधी और अन्य विवरण दर्शित करते हुए)।

Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

2. अनुज्ञापि प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञापि की शर्तों और अतिरिक्त शर्तों।

Conditions and Additional Conditions of this licence signed by the licensing authority.

3. दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञापि तारीख 31 मार्च 2028 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2028.

यह अनुज्ञापि, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञापि की शर्तों का अधिकमण करने या यदि अनुज्ञापि परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।

This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 15/09/2023

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives  
South Circle, Chennai

**Amendments :**

- Change in Authorized Signatory/Occupier/Partners/Directors dated : 15/09/2023
- Change in Postal Address dated : 15/09/2023
- Amendment in Drawings/Facilities/Premises dated : 15/09/2023
- Change in Postal Address dated : 18/09/2023
- Amendment in Drawings/Facilities/Premises dated : 20/09/2023

**Transfers :**

- Change in Licensee Name/Address/Status dated : 15/09/2023

नवीनीकरण के पृष्ठांकन के लिए स्थान  
Space for Endorsement of Renewal

नवीकरण की तारीख  
Date of Renewal

समाप्ति की तारीख  
Date of Expiry

अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प  
Signature of licensing authority and stamp

**कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दंडित अपराध होगा।**  
**Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.**

**Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.**

# **ANNEXURE – 26**

## **PHOTOGRAPHS OF SPENT OIL YARD**

PHOTOGRAPHS OF SPENT OIL COLLECTION YARD

