

# Vajra Rock Mining Industries

Register No. 1612/2007 of the Registrar of Firms

SSI Reg.No.32 012 12 00529

Registered Office: Sreenikethan, Kalanjoor, Pathanamthitta, KERALA. Pin: 689 694, INDIA

Phone office 04734 270431, Fax 0473 270431

Email [vajrarock@gmail.com](mailto:vajrarock@gmail.com)

No. VRMI/CR/030/2015

Date: 28.12.22

To

The Regional Director

MoEF&CC Regional Office

Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E & F Wing

II Block, Koramanagala, Bengaluru – 560034.

Sir,

Sub: Environmental Clearance – Compliance report furnished

Ref: E.C. No. 80/SEIAA/KL/182/2013 dated 23-05-2013 of SEIAA Kerala

Kind attention is invited to the Environmental Clearance accorded to the quarry project of M/s Vajra Rock Mining Industries in Koodal Village, Kalanjoor Panchayath, Adoor Taluk, Pathanamthitta District, Kerala vide reference cited above. The nineteenth report of compliance on the specific and general conditions of the EC for the period from April to September 2022 is attached herewith for favour of kind perusal.

Yours faithfully



K.N. Madhusoodanan  
Managing Partner  
for M/s Vajra Rock Mining Industries

Copy to :

The Member Secretary

SEIAA Kerala

K.S.R.T.C. Bus Terminal Complex, 4<sup>th</sup> Floor

Thampanur, Thiruvananthapuram – 695001.



Quarry project of

# M/s Vajra Rock Mining Industries

Koodal Village  
Kalanjoor Panchayath  
Konni Taluk (Formerly Adoor Taluk)  
Pathanamthitta District  
Kerala State

## 19th Compliance report

(Ref: E.C. No. 80/SEIAA/KL/182/2013 dt.23-05-2013 of SEIAA Kerala)

for the period from

## April to September 2022



Quarry project of  
***M/s Vajra Rock Mining Industries***  
Koodal Village  
Kalanjoor Panchayath  
Konni Taluk (*formerly Adoor Taluk*)  
Pathanamthitta District  
Kerala State

**19<sup>th</sup> Compliance report**  
*(Ref: E.C. No. 80/SEIAA/KL/182/2013 dt.23-05-2013 of SEIAA KERALA)*

for the period from  
**April to September 2022**



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## MONITORING REPORT – PROFORMA – PART I

EC No. 80/SEIAA/KL/182/2013 dt. 23.05.2013 issued by SEIAA Kerala / MoEF & CC

1.	Name of the project	Quarry project of. M/s Vajra Rock Mining Industries
2.	Clearance letter no. & date	Environmental Clearance No. 80/SEIAA/KL/182/2013 dated 23.05.2013 issued by SEIAA Kerala
3.	Location: District & State/UT	Pathanamthitta District, Kerala State
4.	Address for correspondence:	Mr. K.N. Madhusoodanan Managing Partner M/s Vajra Rock Mining Industries Sreenikethan, Kalanjoor P.O. Adoor, Pathanamthitta Kerala state Pincode: 689694.
5.	Contact No. of office with name of responsible official	Mr. Suresh - 9447120111
6.	Mobile No. of concerned officials associated with monitoring	Mr. Suresh - 9447120111
7.	Date of commencement (Actual and/or planned)	23.05.2013
8.	Validity of CFO (Consent for Operation obtained from Kerala State PCB)	31.03.2024
9.	Present status of the project	Ongoing
10.	Email id of the contact person to whom communications to be sent	sureshmavanal@yahoo.com ; knmppl@gmail.com
11.	FAX Number	

Date: 28.12.22

(Company Seal)



Signature of authorized signatory

Name :

Designation:

Prepared by: 8882 (Hannamthitta) District Seismicity Environment, Ph: +91 9446520502 Email: miki@seiaa.org



# I. ABOUT THE PROPONENT

M/s Vajra Rock Mining Industries possesses a quarry project in Koodal Village, Kalanjoor Panchayath, Konni Taluk (*formerly Adoor Taluk*), Pathanamthitta District, Kerala state.

State Environment Impact Assessment Authority Kerala (SEIAA Kerala) accorded Environmental Clearance No. 80/SEIAA/KL/182/2013 dated 23-05-2013 to the quarry project in Koodal Village, Kalanjoor Panchayath, Konni Taluk (*formerly Adoor Taluk*), Pathanamthitta District, Kerala, owned and possessed by M/s Vajra Rock Mining Industries.

M/s Vajra Rock Mining Industries is controlled and managed by Mr. K.N. Madhusoodanan, Managing Partner, M/s Vajra Rock Mining Industries, Sreenikethan, Kalanjoor P.O., Adoor, Pathanamthitta, Kerala – 689694; Telephone No: 04734-270431/271400; E mail: knmppl@gmail.com.

Among the conditions specified in the said Environmental Clearance (EC), it is mandatory to file six-monthly compliance report(s). This report is in compliance of it; and the nineteenth report in its series.

# II. ABOUT THE PROJECT

## a. Project category:

The project comes under the Category B, Activity 1(a) of Schedule of EIA Notification 2006 and subsequent amendments.

## b. Project location:

Sy. Nos. 288/1 part and 251/1 part, Block 32 of Koodal Village, Kalanjoor Panchayath, Konni Taluk (*formerly Adoor Taluk*), Pathanamthitta district, Kerala. The proposed project site falls within 9°8'37.22" N to 9°8'49.38" N and 76°53'39.47" E to 76°53'52.05" E.

### c. Project extent and activity:

The project is for quarrying of 2,80,000 MTA of building granite stone from an area of 4.6785 hectares of land located as specified above. The expected life of mine is 14 years.

### d. Project description:

The proposed project activity involves about 100 % of the pit area for exploring granite building stone. At the end of life of mine, excavated pit (3.5885 ha) will be fully reclaimed and rehabilitated by plantation. The proposed project does not involve any underground mining activities. The mining is done by open cast semi mechanized method. The sewage of 0.8 KLD generated from the mine office is diverted to the septic tank followed by soak pit.

### III. REPORT OF COMPLIANCE

#### A. SPECIFIC CONDITIONS

Item No.	Stipulations in EC	Status of Compliance	Remarks
S1	Barren waste land should be converted to productive land by planting indigenous trees yielding edible fruits.	Saplings of coconut trees and indigenous plants like guava, mango, gooseberry, jack fruit tree, rambutan, papaya, etc. are planted in the site and are being taken care of.	
S2	Garland drains should be provided with clarifiers.	Garland drains are provided with clarifiers.	
S3	A safe buffer distance of 200 m should be left from the boundary of nearby forest without conducting mining activities.	Statutory safe distance is being maintained without fail.	
S4	A buffer distance of 15 m to be kept undisturbed from the boundary of the nearest quarry as proposed by the Mining & Geology Department.	Statutory safe distance is being maintained without fail.	

S5	<p>The mining activity should be limited to elevation between MSL 265 and MSL 190 or up to the depth specified in condition no. (xvi)* of General Conditions, whichever is at higher altitude.</p> <p>*Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of nearest stream bed, whichever is less.</p>	Present mining depth is still above the ground level.	
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## B. GENERAL CONDITIONS

Item No.	Stipulations in EC	Status of Compliance	Remarks
G1	Rain water harvesting to collect and utilize the entire water falling in land area should be provided.	Provision is made for collection and storage of rain water falling in the land area.	Plate G.1 – Rain water storage area (Page 25)
G2	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	Environment Monitoring Cell (EMC) formed is fully functional and meets regularly. Copy of minutes of the meeting of EMC is attached as <b>Annexure G.2</b> .	<b>Annexure G.2</b> – Copy of minutes of meeting of Environment Monitoring Cell (Pages A1-A3)

G3	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.	Avenue trees are planted along either side of the tarred road and open parking areas inclusive of approach road and internal roads. Avenue trees by way of natural vegetation are also present on either side of the tarred internal road.	
G4	The project shall incorporate devices for solar energy generation and utilization wherever possible.	Solar energy street lights are used at present within the project site.	Plate G.4 – Solar street light (Page 27)
G5	Sprinklers shall be installed and used in the project site to contain dust emissions.	Sprinklers are installed within the project site for sprinkling water at regular intervals. Further, in order to contain dust emissions, lorries with sprinklers also ply within the project site.	
G6	The eco-restoration plan submitted with the proposal should be fully implemented.	The eco-restoration plan submitted shall be fully implemented at the time of mine closure.	
G7	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 dumpings and overburden and planted with indigenous plant species that are eco-friendly.	It shall be ensured that the directions contained are scrupulously followed at the time of mine closure.	
G8	Corporate Social Responsibility agreed upon by the proponent should be implemented.	Corporate Social Responsibility agreed upon is being implemented without fail. An amount of Rs. 93,385/- has been spent towards CSR, the document relating to which is attached as <b>Annexure G.8.</b>	<b>Annexure G.8</b> – Copy of document for the amount spent towards CSR (Page A4).

G9	Barbed metal wire fencing around the mining area shall be provided with a height of not less than 5 ft so that falling of animals/ human/ belongings/ dumping of garbages, etc. does not happen.	Barbed metal wire fencing around the mining area with a height of not less than 5 feet is provided.	
G10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.	Blasting time is displayed for information of the public.	
G11	Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.	Blasting is done in a controlled manner as specified by the regulations of Directorate General of Mines Safety. It is done under the supervision of Mr. Shukamuni and Mr. Sharanappa who are competent for the same.	
G12	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	Access roads to the quarry site are tarred.	
G13	Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.	Overburden is stacked in pre-determined place within the project site specified for the purpose.	
G14	Height of benches should not exceed 5 m and width should not be less than 5 m.	Height and width of the benches is maintained as 5 m x 5 m.	

G15	Mats to reduce fly rock blast to a maximum of 15 PPV should be provided.	Mats are used during vibration studies.	
G16	Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of nearest stream bed, whichever is less.	The mining depth is still above the ground level.	
G17	No mining operations should be carried out at places having a slope greater than 45°.	It shall be ensured that no mining is carried out at places having a slope greater than 45°, if any.	
G18	Acoustic enclosures should have been 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 standards given by CPCB/KSPCB.	Acoustic enclosures are provided for the crusher unit 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 standards given by KSPCB.	
G19	The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.	The workers on the site are provided with the required protective equipment such as ear muffs, helmets, etc.	
G20	Assurance in the form of affidavit should be given to SEIAA that eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	Affidavit was submitted to SEIAA.	

G21	Assurance in the form of affidavit should be given to SEIAA that only a maximum of 10 percent of the total mined area shall be retained as water body, which shall be lined properly and further provided with protective wall to prevent accidents.	Affidavit was submitted to SEIAA.	
G22	Garland drains to be provided in the lower slopes around the core area to channelize storm water.	Garland drains are provided to channelize storm water.	
G23	Debris/ silt traps to be provided to prevent entry of dust and quarry wastes entering the main streams.	Debris/ silt traps are provided.	
G24	All other statutory clearances should have been obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	Clearances are obtained from: 1. Kalanjoor Grama Panchayath <b>[Annexure G.24(1)]</b> 2. Petroleum and Explosives Safety Organization (former Explosives Department) <b>[Annexure G.24(2)]</b> 3. Department of Mining and Geology <b>[Annexure G.24(3)]</b> 4. Directorate General of Mines Safety <b>[Annexure G.24(4)]</b> and 5. Kerala State Pollution Control Board <b>[Annexure G.24(5)]</b> .	<b>Annexure G.24(1)</b> – Copy of license (No. A9-300(04)/2020 dt. 01.04.2020 valid up to 31.03.2025) issued by Kalanjoor Grama Panchayath (Page A5). <b>Annexure G.24(2)</b> – Copy of license (No. E/SC/KL/22/1285 (E56732) dt. 23.02.2021 valid up to 31.03.2025) issued by the Petroleum and Explosives Safety Organization for possession for use of explosives from magazine (Pages A6-A12). <b>Annexure G.24(3)</b> – Copy of proceedings No. 01/2014-15/2535/M3/2014 dt. 01.04.2014 of the Director of Mining &

			<p>Geology sanctioning the quarrying lease, and the copy of lease deed executed in this regard valid for a period from 02.04.2014 to 31.03.2024 (Pages A13-A31).</p> <p><b>Annexure G.24(4)</b> – Copy of conditions issued (No. SZ /BGR /106(2)(b)/P-71/ 2012/ 1080 dt. 15.06.2012) by the Directorate General of Mines Safety governing the use of Heavy Earth Moving Machinery (HEMM) without deep hole drilling and blasting (Pages A32-A44).</p> <p><b>Annexure G.24(5)</b> – Integrated Consent to Operate – Renewal for crusher (Consent no. QCO/ PTA/ 22/ R3/ 2017 dt. 01.02.2018 and Consent no. QCO/ PTA/ 22/ R3/ 2018 dt. 10.05.2018, valid up to 31.12.2020) and for quarry (Consent no. QCO/ PTA/ 22/ R4/ 2020 dt. 02.11.2020, valid up to 31.03.2024) issued by the Kerala State Pollution Control Board (Pages A45-A52).</p>
G25	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.	The company shall abide by the directions of SEIAA Kerala in such a context, if arises.	

G26	<p>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.</p>	<p>The company shall abide by the directions of SEIAA Kerala in such a context, if arises.</p>	
G27	<p>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>	<p>Strict compliance is adhered to and is reviewed periodically by authoritative persons of the top management.</p>	

G28	<p>The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at <a href="http://www.seiaakerala.org">www.seiaakerala.org</a>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the office of this Authority as confirmation.</p>	<ul style="list-style-type: none"> <li>• Advertisements regarding the obtaining of Environmental Clearance were given in two newspapers: <ol style="list-style-type: none"> <li>1. Mathrubhumi (Malayalam daily) dt. 15.07.2013 and</li> <li>2. The New Sunday Express (English daily) dt. 14.07.2013</li> </ol> </li> <li>• Copies of newspaper advertisements had been forwarded to the Directorate of Environment and Climate Change.</li> </ul>	
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G29	<p>A copy of the clearance letter shall be sent by the proponent 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 clearance letter shall also be put on the website of the company by the proponent.</p>	<ul style="list-style-type: none"> <li>• Copy of EC has been forwarded to the Secretary, Kalanjoor Grama Panchayath.</li> <li>• Copy of EC is uploaded in the website of the company www.mavanal.com.</li> </ul>	
G30	<p>The proponent shall submit half yearly reports 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 simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the Directorate of</p>	<ul style="list-style-type: none"> <li>• Conditions are being complied with. This nineteenth report is in compliance with the submission of six-monthly compliance reports and is for the period from April to September 2022. Earlier reports were sent to the concerned as stipulated herein.</li> <li>• Copy of air, water, soil and noise quality monitoring report is attached as <b>Annexure G.30</b>.</li> </ul>	<p><b>Annexure G.30</b> – Copy of report on Ambient air, water, soil and noise Quality Monitoring (Pages A53-A56)</p>

	Environment and Climate Change, Govt. of Kerala.		
G31	The conditions 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 of size of not less than 40.	The conditions of Environmental Clearance are prominently displayed in a metallic board as specified herein.	
G32	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.	Affidavit was submitted to SEIAA.	



# IV. PLATES



**Plate G.1**  
**Rainwater storage area**





**Plate G.4**  
**Solar street light**





# V. ANNEXURE



சென்னை நகராட்சி நிர்வாகப் பேரவை

மேலும் மேலும் சென்னை நகராட்சி நிர்வாகப் பேரவைக்கு தயார் செய்த  
பேரவையின்

திகதி. 13.4.2022

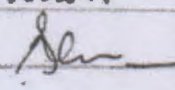
மீட்டர்: ஒவ்வொரு 10 மீட்டர்.

உள்ளுள்ள:

- 1. சி. வி. அலுவலகம்
- 2. சி. வி. அலுவலகம்
- 3. சி. வி. அலுவலகம்
- 4. அலுவலகம்

சென்னை நகராட்சி நிர்வாகப் பேரவைக்கு தயார் செய்த  
சி. வி. அலுவலகம் தயார் செய்து கொடுக்கப்படுகிறது. மேலும்  
பேரவையின், அலுவலகம் தயார் செய்து கொடுக்கப்படுகிறது.  
(மேலும் தயார் செய்து கொடுக்கப்படுகிறது: அலுவலகம் தயார் செய்து கொடுக்கப்படுகிறது  
மேலும் தயார் செய்து கொடுக்கப்படுகிறது. மேலும் தயார் செய்து கொடுக்கப்படுகிறது.  
மேலும் தயார் செய்து கொடுக்கப்படுகிறது. மேலும் தயார் செய்து கொடுக்கப்படுகிறது.  
மேலும் தயார் செய்து கொடுக்கப்படுகிறது. மேலும் தயார் செய்து கொடுக்கப்படுகிறது.  
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மேலும் தயார் செய்து கொடுக்கப்படுகிறது. மேலும் தயார் செய்து கொடுக்கப்படுகிறது.

சென்னை நகராட்சி நிர்வாகப் பேரவை

மேலும் தயார் செய்து கொடுக்கப்படுகிறது  
K. V. Sulekha  






# ANNEXURE G.8

(ORIGINAL FOR RECIPIENT)

## Tax Invoice

**SREE KRISHNA MODERN RICE MILL**  
 VALATHALA, NEMMARA, PALAKKAD  
 9072640612  
 GSTIN/UIN 32ANCPK7149K1ZWW  
 State Name Kerala Code 32  
 E-Mail keerthina@gmail.com  
 Buyer (Bill to)

Invoice No. **2347**  
 Reference No & Date  
 Bill of Lading/Receipt No

Dated **28-Aug-22**  
 Other References  
 Motor Vehicle No  
**KL49K7299**

**VAJRA ROCK MINING INDUSTRIES**  
 16/387 KALLIPPARA, NIRATHUPARAPO  
 PATHANAMTHITTA 9447129111  
 GSTIN/UIN 32AAHFV7038A1ZH  
 State Name Kerala Code 32  
 SI Description of Goods

- 1 VADI MATTA 05 KG  
50 BAG
- 2 VADI MATTA 10 KG  
158 BAG

HSN/SAC	Quantity	Rate	per	Amount
10063090	2.50 qtl	4,860.00	qtl	12,150.00
10063090	15.80 qtl	4,860.00	qtl	76,788.00
				88,938.00
		CGST 2.5%		2,223.45
		SGST 2.5%		2,223.45

*CSE Vajra*

Total 18.30 qtl ₹ 93,384.90  
E 8 00

Amount Chargeable (in words)

INR Ninety Three Thousand Three Hundred Eighty Four and Ninety paise Only

Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
88,938.00	2.50%	2,223.45	2.50%	2,223.45	4,446.90
Total:		2,223.45		2,223.45	4,446.90

Tax Amount (in words)

INR Four Thousand Four Hundred Forty Six and Ninety paise Only

Company's Bank Details  
 Bank Name **CANARA BANK O/U**  
 A/c No **0810261005299**  
 Branch & IFS Code **NEMMARA & CNRB0000810**  
 for SREE KRISHNA MODERN RICE MILL

Company's PAN **ANCPK7149K**

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct

Authorized Signatory

This is a Computer Generated Invoice

*And*



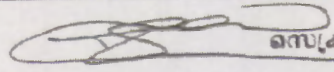
നമ്പർ: A9-300 (04) /2020

കലഞ്ഞൂർ ഗ്രാമപഞ്ചായത്ത്

1994 ലെ കേരളാ പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകൾ പ്രകാരവും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു കൊടുത്ത എഫ്.റ്റി.ഇ & ഒ.എസ് ലൈസൻസ് (NEW/Renewal)

ലൈസൻസുടമസ്ഥന്റെ പേരും മേൽവിലാസവും	കെ.എൻ.മധുസൂദനൻ മാനേജിംഗ് ഡയറക്ടർ മാവനാൽ ഗ്രാനൈറ്റ്സ് (പി).ലി രജി. ഓഫീസ്: ശ്രീനീകേതൻ, കലഞ്ഞൂർ
എന്താവശ്യത്തിന് ലൈസൻസ് അനുവദിച്ചു എന്ന്	കല്ലിന്റെ ഉപയോഗം (കൂടൽ വില്ലേജിൽ സർവ്വേ നം., 288/1, ക്ല 5.2377 ഹെക്ടറിൽ പാറ ഉപയോഗം ചെയ്ത് വിലക്കുന്നതിനും ക്രഷർ യൂണിറ്റിൽ ഉപയോഗിക്കുന്നതിനും)
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	KP VI -
ലൈസൻസിന്റെ കാലാവധി	31/03/2025
ഫീസ്	ലൈസൻസ് : Rs.75,000/- തൊഴിൽ തികുതി: Rs. 12500 /- M/F- 17650/- Rt. No 11901010500147, 148 , 22/02/2020
സ്ഥാപനത്തിന്റെ പേര്	MAVANAL GRANITES (p) Ltd

കലഞ്ഞൂർ ഗ്രാമപഞ്ചായത്ത്

 സെക്രട്ടറി

തീയതി 01.4.2020

(മുദ്ര)



भारत सरकार | Government of India  
 वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry  
 पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)  
 पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives  
 केन्द्रीय भवन, ब्लॉक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor  
 CSEZ पी.ओ.कक्कानाड कोच्ची | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037  
 फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276  
 ई-मेल Email: dycceernakulam@explosives.gov.in

संख्या (No.): E/SC/KL/22/1285(E56732)

दिनांक (Date): 23/02/2021

सेवा में | To,

Shri Shri K.N. Madhusoodanan, Managing Partner,  
 M/s Vajra Rock Mining Industries, Sreenikethan, Kalanjoor P.O., Pathanamthitta District-689694,  
 Kerala, Town/Village - Kalanjoor  
 District-PATHANAMTHITTA, State-Kerala, Pincode - 689694

विषय : Survey No.270/4 Block No.32, ग्राम Koodal village, Adoor Taluk, Pathanamthitta Distri, जिला PATHANAMTHITTA, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1285(E56732) के नवीनीकरण संदर्भ में।  
 Possession for Use of of Explosives from magazine situated at Survey No.:270/4 Block No.32, Koodal village, Adoor Taluk, Pathanamthitta Distri, Dist. PATHANAMTHITTA, Kerala -Licence  
 Subject: No.: E/SC/KL/22/1285(E56732) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या 38399 दिनांक 11/02/2021 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुज्ञप्ति दिनांक 31/3/2025 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।

Reference to your letter No.: 38399 dated: 11/02/2021, the subject licence duly renewed upto 31/3/2025 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith.

**Conditions:**

1)EXPLOSIVES SHALL BE USED ONLY AFTER HAVING A VALID QUARRYING LEASE FROM THE DIRECTOR OF MINING & GEOLOGY . PLEASE NOTE THAT THE USE OF EXPLOSIVES IN THE QUARRIES SHALL BE AS PER THE DIRECTION OF DGMS, BANGALORE AS REQUIRED UNDER MINES ACT 1952 AND METALIFEROUS MINES REGULATIONS 1961.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/ 2025 से पहले इस कार्यालय को भेजे जाएं.

For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2025.

- प्ररूप आरई-1 में विधेयत पूर्ण एवं हस्ताक्षरित आवेदन।  
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञप्ति शुल्को का, विस्फोटक नियम, 2008 के तहत ऑनलाइन आवेदन पोर्टल पर उपलब्ध ई-भुगतान सुविधा के माध्यम से लाइसेंस शुल्क ऑनलाइन जमा किया जाना है।  
Licence fees renewable for one to five years, to be submitted online through e-payment facility available on online application portal under the Explosives Rules, 2008.
- अनुमोदित प्लान के साथ मूल अनुज्ञप्ति।  
Original licence with approved plan.
- कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें।  
In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- विस्फोटकों के क्रय हेतु आरई-11 में मांगपत्र (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (आतिशबाजी गोदाम के लिए लागू नहीं)।  
Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office.(Not applicable for fireworks store house)
- कृपया विस्फोटकों की त्रैमासीक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाएं। विवरणी इस कार्यालय के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (आतिशबाजी गोदाम के लिए लागू नहीं)।  
Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter.(Not applicable for fireworks store house)

AS

## अनुज्ञापते प्ररूप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)

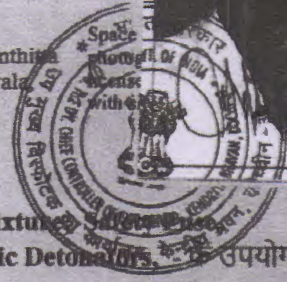
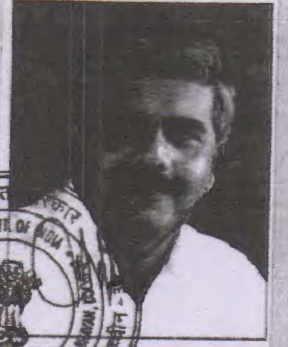
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(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 अनुज्ञापति

Licence to possess : (c) for use,explosives of class 1, 2,3,4,5,6 or 7 in a magazine

अनुज्ञापति सं. (Licence No.) : E/SC/KL/22/1285(E56732)

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



1. Licence is hereby granted to

Shri Shri K.N. Madhusoodanan, Managing Partner (अधिभारगी / Occupier : Shri K.N. Madhusoodanan), M/s Vajra Rock Mining Industries, Sreenikethan, Kalanjoor P.O., Pathanamthitta District-689694, Kerala, Town/Village - Kalanjoor, District-PATHANAMTHITTA, State-Kerala, Pincode - 689694

को अनुज्ञापति अनुदत्त की जाती है।

2. अनुज्ञापतिधारी की प्रास्थिति | Status of licensee : Partnership Firm

3. अनुज्ञापति निम्नलिखित प्रयोजनों के लिए विधिमान्य है। possess for use of Nitrate Mixture  
Licence is valid only for the following purpose. : Ordinary Detonator, Electric Detonator उपयोग के लिए

4. अनुज्ञापति 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 Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2,0	0	500 Kg.
2.	Safety Fuse	6,1	0	4000 Mtrs
3.	Ordinary Detonator	6,3	0	4000 Nos.
4.	Electric Detonators	6,3	0	4000 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञापति 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 अनुज्ञापत परिसर की पुष्टि होती है।

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

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1285  
: (E56732)  
दिनांक (Dated) 07/10/2011

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

Survey No. 270/4 Block No.32, ग्राम (Town/Village) : Koodal village, ~~Adoor Taluk, Pathanamthitta District~~ ~~पुल्लस थला (Pullethala)~~ ~~Roodal~~

जिला (District) PATHANAMTHITTA राज्य (State) Kerala पिनकोड (Pincode) 689694

दूरभाष (Phone) 04734270431 ई. मेल (E-Mail) फेक्स (Fax)

7. अनुज्ञापति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities. : pucca magazine with stone masonry construction

8. अनुज्ञापति 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, 2008 framed there under and the conditions, additional conditions and the following Annexures.

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

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

2. अनुज्ञापति प्राधिकारी व्दारा हस्ताक्षरित इस अनुज्ञापति 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 अनुज्ञापति तारीख 31 मार्च 2016 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2016.

AF

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त 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 - 07/10/2011

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

**Amendments :**

- Amendment in Drawings/Facilities/Premises dated : 19/04/2013
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 19/04/2013
- Amendment in Drawings/Facilities/Premises dated : 11/12/2013

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
23/02/2021	31/03/2025	Dy. Chief Controller of Explosives, Ernakulam उप मुख्य विस्फोटक नियंत्रक Deputy Chief Controller of Explosives एरनाकुलम Ernakulam

**कानूनी चेतावनी :** विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दांडिक अपराध होगा।

**Statutory Warning :** Mishandling and misuse of explosives shall constitute serious criminal offence under the law.



The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean; and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from; Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is kept.

9. यदि तडित चालक का परीक्षण विस्फोटक नियंत्रक करता है तो अनुज्ञापिधारी ऐसे परीक्षण के लिए विहित फीस का संदाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उतनी ही फीस अनुज्ञापिधारी द्वारा पश्चात्तर्ती प्रत्येक परीक्षण के लिए तब तक दी जाती रहेगी जब तक कि परीक्षण अधिकारी तडित चालक को समाधानप्रद घोषित नहीं कर देता :  
परंतु किसी एक परीक्षण के लिए देय फीस किसी एक दिन के दौरान किसी चालक के किए गए सभी परीक्षणों के लिए प्रभाय होगा :

परंतु यह और कि यदि दो या अधिक तडित चालक एक ही मैगजीन से संबद्ध हैं तो ऐसे सभी चालकों के परीक्षण के लिए फीस ऐसी किसी फीस से अधिक नहीं होगी जो किसी एक तडित चालक के परीक्षण के लिए हर स्थिति में विहित की गई है ।

If the lighting conductor is tested by the Controller of Explosives, the licensee shall pay the fees prescribed for test. In the even of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lighting conductor is passed by the testing officer as satisfactory:

Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day :

Provided further that where two or more lighting conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lighting conductor.

10. उपयुक्त तथा जेब रहित कार्यकरण वस्त्रों, उपयुक्त जूतों के प्रयोग द्वारा तथा तलाशी लेकर या अन्यथा अथवा ऐसे कि-हीं साधनों द्वारा इस बाबत सम्यक उपबंध किया जाएगा कि फैक्ट्री परिसर में अग्नि, दियासलाई अथवा ऐसी कोई वस्तुएं या पदार्थ, जिससे विस्फोट हो सकता है या आग लग सकती हो, किन्तु इस शर्त के कारण ऐसी संरचना, स्थिति या स्वरूप में किसी कृत्रिम बत्ती का प्रवेश वजित नहीं है जिससे आग लगने या विस्फोट होने का खतरा न हो :  
परंतु इस शर्त का वह भाग, जो लोहे या इस्पात के अपवर्जन को लागू होता है, ऐसे किसी भवन के संबंध में बाध्य कर नहीं होगा जिससे भिन्न कोई विस्फोटक नहीं रखा गया है ।

Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fire, Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion.

Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept.

11. अनुज्ञापिधारी प्ररूप आर.ई.-3 और आर.ई.-4 या आर.ई.-5, जैसी स्थिति हो, में सभी विस्फोटकों का अभिलेख और लेखा रखेगा और विस्फोटक नियम, 2008 के अधीन प्राधिकृत किसी भी अधिकारी के समक्ष उसके द्वारा ऐसा करने की मांग की जाने पर स्टाक पुस्तक और अभिलेख प्रस्तुत करेगा । स्टाक पुस्तक विहित प्रोफार्मा में पृष्ठ संख्यांकित होगी ।

The licensee shall keep records and accounts of all explosives in Forms RE-3 and RE-4 or RE-5, as the case may be, and exhibit the stock books and records to any of the officers authorised under the Explosives Rules, 2008 whenever such officer may call upon him to do so. The stock books in the prescribed proforma shall be page numbered.

12. परिसरों में कोई परिवर्तन या तबदीली अनुज्ञापन प्राधिकारी के पूर्वानुमोदन बिना नहीं की जाएगी और अनुज्ञापिधारी ऐसी किसी शर्त का अनुपालन करेगा जो इस निमित्त अनुज्ञापन प्राधिकारी विनिर्दिष्ट करे ।

No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.

13. मैगजीन सभी समयों पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी) यदि किसी कारणवश किसी विस्फोटक के भण्डारण के लिए मैगजीन अनुपयुक्त हो जाती है तो अनुज्ञापिधारी इस बात की सूचना अनुज्ञापन प्राधिकारी को तुरंत देगा ।

Magazine shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives for any reason whatsoever.

मैगजीन का अनुज्ञापिधारी इन नियमों के नियम 24 के उप-नियम 3 के अनुसार त्रैमासिक विवरणी प्रस्तुत करेगा ।

The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.

14. यदि सुरक्षा दूरी का कोई अधिक्रमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए तुरंत दी जाएगी ।

Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.

15. यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को, सलाह प्राप्त करने के लिए, तुरंत दी जाएगी ।

The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.

16. विस्फोटकों के पैकेटों के चट्टे इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी पैकेजों की हालत की जांच करने और प्रत्येक पैकेज की विनिर्माण विशिष्टियों को पढ़ने के लिए उनके बीच से होकर आ जा सके ।

The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package.

तडित चालकों की भूमि के लिए प्रतिरोध यथासंभव न्यूनतम होगा और किसी भी दशा में 10 ओह्म से अधिक नहीं होगा ।

The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.

17. मैगजीन के चारों ओर 15 मीटर की दूरी के अंतर्गत कोई शुल्क घास या झाड़ी या ज्वलनशील सामग्री नहीं रूने दी जाएगी ।

उप मुख्य विस्फोटक नियंत्रक

Deputy Chief Controller of Exp

एरनाकुलम Ernakulam

AFO

**Form DE-2**  
(See rule 113 of the Explosives Rules, 2008)  
(Distance Form to be attached to the licence)

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/KL/22/1285(E56732) in form LE-3 granted to Shri Shri K.N. Madhusoodanan, Managing Partner, M/s Vajra Rock Mining Industries, Sreeaikethan, Kalanjoor P.O., Pathanamthitta District-689694, Kerala, Kerala-689694.

Type of Structure(s)		Safety distances meters	
<b>Inside Safety Distances(ISD)</b>			
1	Room or Workshop used in Connection with the Magazine	M	UM
2	Any other Explosives Magazine or store House or Factory of the Applicant	19	29
3	Magazine Office		
<b>Middle Safety Distances(MSD)</b>			
4	Magazine Keeper's or Chowkidar's Dwelling house		
5	Railway including Minerals and Private Railways		
6	Canal (in active use) or other navigable water		
7	Dock or Pier or Jetty		
8	Public Highway or Public Road		48
9	Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory		
10	River Embankment or Sea Embankment or Public Well		
11	Reservoir or Bounded tank/rope way		
12	Windmillor or Solar panel for Power Generation		
<b>Outside Safety Distances(OSD)</b>			
13	Dwelling House		
14	Govt. and Public Building		
15	Temple, Mosque, Church or Gurudwara or other Places of Worships		
16	Shops, Market place, Public recreation and Sports Ground, College, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble		
17	Factory		
18	Buildings or Works used for the Storage in Bulk of Petroleum, Spirit, gas, or other inflammable or hazardous substances		
19	Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives		95
20	Aerodrome		
21	Furnace, Kiln or Chimney		
22	Quarry or mine pit head		
23	Power House or Electric Substation		
24	Wireless Station		
25	Warehouse or other Storage Building		
26	Any other Protected works		
<b>Overhead Electric lines</b>			
27	Electric Power over head Transmission Lines above 440V		90
28	Electric Power over head Transmission Lines upto 440V		15

The Date : 07/10/2011

**Amendments :**

- Amendment in Drawings/Facilities/Premises dated : 19/04/2013
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 19/04/2013
- Amendment in Drawings/Facilities/Premises dated : 11/12/2013

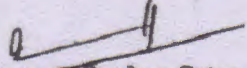
  
For Joint Chief Controller of Explosives  
South Circle, Chennai

उप मुख्य विस्फोटक नियंत्रक  
Deputy Chief Controller of Explosives  
एरनाकुलम Ernakulam

- A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.
18. विस्फोटकों के प्रत्येक पैकेट की, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी।  
Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
  19. किसी मैगजीन / भंडारगृह में किसी एक समय में चार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा।  
Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
  20. विस्फोटकों के खाली पैकेटों को शीघ्रतिशीघ्र वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा।  
Empty packages of the explosives shall be removed at the earliest and destroyed.
  21. अनुज्ञापिथारी और कर्मचारीयों को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए।  
The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
  22. निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञत परिसर में अबाध रूप से पहुंचने दिया जाएगा और यह सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों और सुरक्षा स्थितियों को सम्यक्तः अनुपालन किया जा रहा है, अधिकारी को प्रत्येक सुविधा प्रदान की जाएगी।  
Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
  23. यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक अनुज्ञापिथारक को अनुज्ञात परिसरों या मशीनरी, टूल या उपकरण में ऐसी कोई मरम्मत या परिवर्धन या परिवर्तन करने या सिफारिशों को लागू करने को लिखित रूप में सूचित करता है जो परिसर के अंदर या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, अनुज्ञापिथारक सिफारिशों को निष्पादित करेगा और विनिर्दिष्ट अवधि के भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को देगा।  
If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the license shall execute the recommendations and report compliance within the period specified by such authority.
  24. अनुज्ञापिथारी मैगजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञत फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिशबाजी या सुरक्षा पल्लोते खरीदेगा।  
The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised explosives from a licensed factory or company for possession and sale from the magazine.
  25. निम्न से अधिक ध्वनि स्तर उत्पादित करने वाले आतिशबाजियों पटाखों की बिक्री और रखने के लिए -  
(क) जो फटने की जगह से चार मीटर की दूरी पर है, 125 डी.बी.(ए।) या 145 डी.बी.(सी)पी.के. प्रतिबंधित होंगे;  
(ख) थ्रुखला (जुड़े हुए पटाख) को गठन करने वाले व्यक्तिगत पटाखों के लिए उपर्युक्त उल्लिखित सीमा 5 लॉग.10(एन) डी.बी. (सी) पी.के. प्रतिबंधित होंगे;  
The possession and sale of fire-crackers generating noise level exceeding;  
a) 125 dB(A) or 145 dB(C)pk at 4 meters distance from the point of bursting shall be prohibited;  
b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5 log<sub>10</sub> (N) dB, where N = number of crackers joined together.
  26. आग या विस्फोट द्वारा दुर्घटना या नुकसान पटाखों की कमी या चोरी, तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी।  
Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.

**अतिरिक्त शर्तें / Additional Conditions :**

1. अनुज्ञापिथारी विदेशी मूल के आतिशबाजी को ना प्रदर्शित करेगा, ना रखेगा और ना ही उसकी बिक्री करेगा। The licensee shall not exhibit, possess and sell fireworks of foreign origin.

  
 कृते संयुक्त मुख्य विस्फोटक नियंत्रक  
 For Joint Chief Controller of Explosives  
 दक्षिणांचल, चेन्नै | South Circle, Chennai  
 उपायुक्त मुख्य विस्फोटक नियंत्रक  
 Deputy Chief Controller of Explosives  
 एरनाकुलम, एरनाकुलम

**PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY**

Sub : Mines & Minerals - Minor Minerals - Granite Building Stone - Renewal of Quarrying lease to **Shri.K.N.Madhusoodanan, Managing Partner, Vajra Rock Mining Industries, Sreenikethan, Kalanjoor-** sanction - orders issued.

- Ref : 1. Application dated 28/02/14 from Shri.K.N.Madhusoodanan, Managing Partner, Vajra Rock Mining Industries, Sreenikethan, Kalanjoor  
 2. Letter No. 309/DOPTA/M/2014 dtd.03/03/2014 from the Sr. Geologist, District Office, Pathanamthitta  
 3. Pro. order No.701/2005-06/1907/M3/06 dtd. 22.3.2006  
 4. NOC No. C7.4777/2014 dtd: 01/02/2014 of the District Collector, Pathanamthitta.  
 5. No.80/SEIAA/KL/182/2013 dtd. 23/5/13 from the Director, Environment and Climate Change, Tvpm.  
 6. Pro. order No.937/2013-14/2535/M3/06 dtd. 31.3.2014.  
 7. Kerala Minor Mineral Concession Rules, 1967.

**No. 01/2014-15/2535/M3/2014**

**Dated, Thiruvananthapuram, 01/04/2014**

**ORDER**

A quarrying lease is renewed to **Shri.K.N.Madhusoodanan, Managing Partner, Vajra Rock Mining Industries, Sreenikethan, Kalanjoor** to quarry Granite Building Stone over an area of 4.4924 hectares of Government land comprised in Survey No. 251/1 of Koodal Village, Konni Taluk, Pathanamthitta District for 10 (Ten) years from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 1967 and as per the NOC and Survey map issued by the District Collector, Pathanamthitta and submitted by the applicant subject to the under mentioned conditions

1. Royalty is payable to Government as per Rule 29(1)(c) of the Kerala Mineral Concession Rules, 1967 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.
2. Dead rent is realisable under 29(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.
3. Surface rent realisable under 29(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.
4. The lessee shall execute a quarrying lease deed within a period of three months from the date of this order in form 'H' as per Rule 32 of the Kerala Minor Mineral Concession Rules, 1967.
5. The lessee shall also deposit an amount of Rs. 1000/- (Rupees One Thousand only) as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 31 of the said rules. The lessee shall commence quarrying operation only after the deed is executed.
6. The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
7. The lessee shall not win and dispose any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order
8. The production of Granite Building Stone from the area covered under this grant shall be restricted to 2,50,000 M.T (Two lakhs & Fifty thousand Metric tonne only) per year during the tenure of this quarrying lease.

The lessee should exhibit a signboard and a notice board for the intimation of the public at the entrance of the quarry. The following information should be inscribed on the notice board both in English & Malayalam

For information:

Licence No	Validity period of the permit	Name of permit/ lease holder	Quantity permitted to be extracted
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10. The lessee should provide retention wall/barricade/fencing compound wall surrounding the quarry before the commencement of the quarrying operation for preventing accidents by falling of human beings animals and materials into the quarry. The lessee should take effective preventive measures for the safety of labourers as well as the general /public.
11. The lessee should leave a distance of 7.5 m from the adjacent boundary lands while carrying out quarrying operations.
12. The lessee should not assign, sublet or transfer his lease or any right or interest therein to any person without previous permission of the Director of Mining & Geology.
13. The lessee shall pay tax related to Revenue department as directed by them and the details should be furnished to the Geologist periodically.
14. This is not a licence for starting quarrying operations. Quarrying operations can be started only after getting the D & O licence from the concerned Local Self Government Institution under the Kerala Panchayat Raj Act.
15. The lessee shall obtain D&O licence from the LSG Institution and produce before the Geologist before commencement of quarrying operation in the lease hold land .
16. Quarrying operations without a valid D&O licence from LSG Institution shall be treated as illegal and such activity is punishable.
17. All conditions stipulated in the EIA clearance as per reference 5<sup>th</sup> cited is strictly adhered to.
18. **Special Conditions:** If the lessee obtains any RMCU registration in future and make excess productions of granite building stone than the permitted quantity on the strength of RMCU registration, he should pay necessary tax to Revenue Department for the whole production of granite building stone since the area is revenue land.

The terms and conditions stated in this order are subject to such further modifications as may be made by the State Government from time to time. The existing quarrying lease vide reference 3<sup>rd</sup> is cancelled.

Sd/-

**A.PRABHAKUMAR**  
DIRECTOR OF MINING & GEOLOGY

To :

Shri.K.N.Madhusoodanan, Managing Partner,  
Vajra Rock Mining Industries, Sreenikethan, Kalanjoor

Copy to :

1. The Director of Mines Safety, Bangaluru Region, No. 27, 24<sup>th</sup> Main  
Next to IDBI Bank, V Phase, J.P.Nagar, Bangaluru- 560 078
2. The District Collector, Pathanamthitta
3. The Sr. Geologist, District Office : Pathanamthitta
4. The Tahasildar, Konni
5. Stock File (2)
6. File Copy

( By Order )

*Antalabunisa*  
1.4.2014  
Senior Superintendent

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भारतीय गैर न्यायिक

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एक सौ रुपये ONE HUNDRED RUPEES

₹ 100

HUNDRED RUPEES

भारत INDIA NON JUDICIAL

കേരളം KERALA

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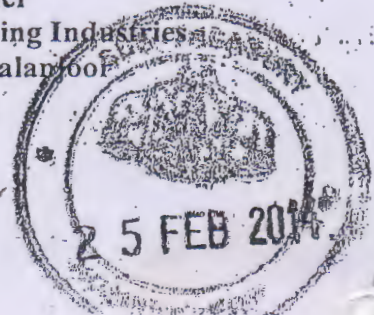
FORM - H  
(See Rule 32)

CARRYING LEASE

This indenture made this 1<sup>st</sup> day of April 2014 between the Governor of Kerala (hereinafter referred to as the 'State Government' which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and Sri. K.N. Madhusoodanan, Managing Partner, Vajra Rock Mining Industries, Sreenikethan, Kalanjor, Pathanamthitta District, aged 56 years, S/o. P.K. Narayana Panicker resident of Sreenikethan, Kalanjor, Pathanamthitta in the village of Kalanjor, Taluk of Konni, Pathanamthitta District (hereinafter called the 'lessee' which expression shall where the context so admits, include his heirs, executors, administrators, representatives and permitted assigns) of the other part.

*C. Thambu Cherian*  
C. THAMBU CHERIAN  
Senior Geologist  
Dept. of Mining & Geology  
District Office Pathanamthitta

*K.N. Madhusoodanan*  
K.N. MADHUSOODANAN  
Managing Partner  
Vajra Rock Mining Industries  
Sreenikethan, Kalanjor  
Pathanamthitta



3  
-2014  
Rs 100/- K.N. Madhusoodanan, Managing Partner  
Vajra Rock Mining Industries, Sreenikethan  
Kalanjor  
N. RADHAKRISHNAN NAID

A15

No. 470/14

Presented to the Office of the Sub Registrar of Enadimangalam with the photograph and fingerprint of the presentant affixed under section 32(5) and paid a fee of Rupees Eighty thousand Six hundred and Ninety two only at 10.45 am on the 5th day of April 2014 by

K.N. Mathesodanan *[Signature]*

residing at Sreenikethan Kalangood.

On the 5th day of April 2014 V. Aravindaksha Kurup  
Execution admitted by *[Signature]*  
Sub Registrar *[Signature]*

K.N. Mathesodanan *[Signature]*

s/o P.K. Narayana Panicker, Managing Partner Vajra Rock Mining Industries, residing at Sreenikethan Kalangood. The above K.N. Mathesodanan s/o P.K. Narayana Panicker is personally known to me.

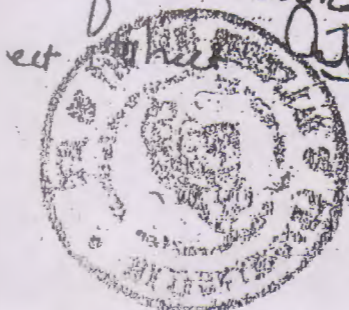
2) I have satisfied myself as to the execution of this document by C. Thambu Cherian, Senior Geologist Dept. of Mining Geology, District Office Pathanamthitta, who is exempted from personal appearance under section 88(C) of the Registration Act.

On the 5th day of April 2014

V. Aravindaksha Kurup  
Sub Registrar *[Signature]*

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470 of 2014 On Book 2

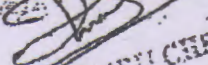


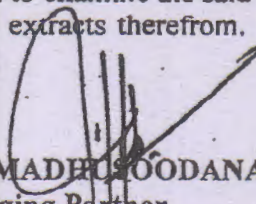
P.P. Ninan  
District Registrar / Collector

AIG

Witnesseth that in consideration of the rents and royalties and lessee covenants, hereinafter reserved and contained the State Government both hereby demise upto the lessee the **Govt. puramboke land** measuring **4.4924 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 commencing from **02-04-2014** and ending on **31-03-2024** for the purposes of extracting minor mineral and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 1967 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing.

1. The lessee shall have the right in and upon the said lands to extract **Granite Building Stone** (hereinafter called the said mineral) and to do all acts necessary for the extraction of the said mineral 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 shall during the subsistence of this lease have the liberty to work the said mineral and remove the same from the quarry hold on permits issued by the 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.
3. The lessee 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 the reserve forest then equal to land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee for any of the purposes of this demise and so in proportion for any area less than a 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 shall at all time during the currency of this demise keep correct and intelligible books of account showing accurately the quantity of the said mineral 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 and children employed daily and shall at all 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 therefrom. The lessee shall submit reports in forms F and G on the specified dates.

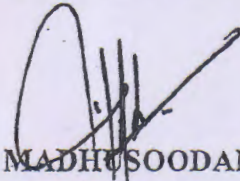
  
**C. THAMBU CHERIAN**  
 Senior Geologist  
 Dept. of Mining & Geology  
 District Office Pathanamthitta

  
**K.N. MADHUSOODANAN**  
 Managing Partner  
 Vajra Rock Mining Industries  
 Sreenikethan, Kalanjoor  
 Pathanamthitta



5. All sums found due under or by virtue of this deed from the lessee may be recovered from him jointly and severally from them and his 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 shall at the lessee's 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 hereto annexed.
7. No quarrying operation or working shall be carried on or permitted to be carried on by the lessee in or under the said lands at any point within a distance of 75 metres from any railway line except with the previous permission in writing of the railway administration concerned; and from any bridge on the National Highway or 50 metres from any reservoir, canal or other public works such as public roads and buildings or inhabited site, burial ground, etc., shown on the plan thereto annexed except with the previous permission in writing of the State Government or otherwise than in accordance with such instructions, restrictions and condition either general or special which may be attached to such permission. The said distance of 50 metres shall be measured in the case of a railway, reservoir or canal horizontally from the outer edge of the bank or outer edge of the cutting, as the case may be and in the case of building horizontally from the plinth thereof. In the case of village roads no workings shall be carried on within a distance of 10 metres of the outer edge of the cutting except with the previous permission in writing of the State Government. For the purposes of this clause the expression "railway and railway administration" shall have the same meaning as defined in sub sections (4) and (6) of section 3 of Indian Railway Act, 1890 (IX of 1890).
8. The sides of open workings shall be sloped, stepped or secured by the lessee in such a manner as to prevent danger from falls of material, 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 secure 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 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.

  
**C. THAMBI CHERIAN**  
 Senior Geologist  
 Dept. of Mining & Geology  
 District Office Pathanamthitta

  
**K.N. MADHUSOODANAN**  
 Managing Partner  
 Vajra Rock Mining Industries  
 Sreenikethan, Kalanjoor  
 Pathanamthitta

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*J. Prasad*  
Sub Registrar  
Kannur



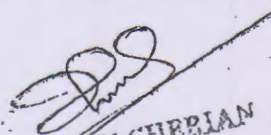
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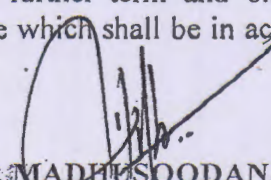


~~P.P. Nair~~  
District Registrar, Collector

A20

10. The lessee 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 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.
- 10A. The lessee shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.
11. The lessee 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 competent authority.
- 11A. Where the lease or any right, title or interest therein has been assigned, sublet or transferred as provided in rule 34 read with condition 11, then the person in whose favour 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.
12. The lease may be surrendered by the lessee at any time after three months notice in writing to the competent authority.
- Provided that the lessee has paid all sums due on account of the lease. Provided further that if the lessee elects 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.
13. On the expiration of the term of this lease or on its earlier determination under clause 12 the lessee shall pay to the State Government for all land which has been rendered useless for agriculture through the exercise of the powers demised by this lease such sum as the District Collector may fix as equivalent to the capitalised value or the land revenue of such land rendered useless. The lease shall continue if the sums are not cleared before the date of determination of notice.
14. If the lessee shall be desirous of taking a further lease of the said lands for a further term of years he shall give three months previous notice in writing of such desire to the competent authority and if the lessee has duly observed all the conditions of this lease, the competent authority may agree to renew the lease for such further term and on such terms and conditions as the competent authority may determine which shall be in accordance with the provisions of these Rules.

  
**C. THAMBUJ CHERIAN**  
 Senior Geologist  
 Depto of Mining & Geology  
 District Office Pathanamthitta

  
**K.N. MADHUSOODANAN**  
 Managing Partner  
 Vajra Rock Mining Industries  
 Sreenikethan, Kalanjoor  
 Pathanamthitta

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~~Sub Registrar  
Cudalore~~



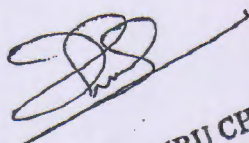
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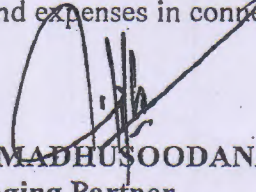
~~P.P. Nindan  
District Registrar / Collector~~

A22

15. If the lessee shall at any time during the said term use the said lands or any part thereof in any manner other than as authorised by this lease or fail to carry on quarrying operations continuously without sufficient cause of which the 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 competent authority to cancel this lease and take possession of the said lands or the alternative to receive from the lessee such penalty for the breach not exceeding 5 times the amount of the said yearly dead rent as the competent authority may fix.
16. If at the expiration of three calendar months after the expiry of the lease or its sooner determination, there shall remain in or upon this said lands, any engines, machinery, plant buildings, structures and other works erections and conveniences the said minerals or other property which the lessee is entitled to remove from the said lands, the same shall, if not removed by the lessee within one calendar month after notice in writing requiring their removal be given to the lessee by the competent authority be deemed to become the property of the State Government in such manner as they may deem fit without liability to pay any compensation or to account to the lessee in respect thereof.
17. This lease is 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 employees or of the public, whether under the Indian Mines Act or otherwise.
18. The lessee shall without delay send to the District Collector and the competent authority or the officer authorised 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.
19. The lessee shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may prescribe.
20. The lessee shall make and pay such reasonable satisfaction and 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 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 herewith.



**C. THAMBU CHERIAN**  
Senior Geologist  
Dept. of Mining & Geology  
District Office Pathanamthitta



**K.N. MADHUSOODANAN**  
Managing Partner  
Vajra Rock Mining Industries  
Sreenikethan, Kalanjoor  
Pathanamthitta

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*[Handwritten signature]*  
~~As Registrar~~  
~~Collector~~



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*[Handwritten signature]*  
P.P. Ninar  
District Registrar / Collector

A24

21. Any condition prescribed in the Kerala Minor Mineral Concession Rules, 1967, but left out in this lease which may be found applicable to the lessee shall be treated as binding on the lessee. In this case, anticipated royalty for the mineral at the rate of ₹16/- (Rupees Sixteen only) per tonne for a period of one year is ₹40,00,000/- (Rupees Forty lakhs only).
22. Dead Rent realizable at the rate of - 1<sup>st</sup> year ₹ nil, 2<sup>nd</sup> year ₹200/- and third year onwards ₹800/- per hectare subject to revision from time to time. Surface Rent at the rate of ₹100/- (Rupees One hundred only) per hectare for one year is for ₹450/- (Rupees four hundred and fifty only). Security deposit is ₹1000/- (Rupees One thousand only).

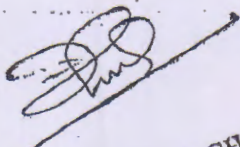
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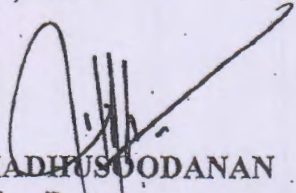
The Schedule above referred to Description of Land

District Taluk	Village or Amsam	Re Survey/ Survey No. of the area	Area in hectares
Pathanamthitta, Konni	Koodal Village	Block No. 32, Sy. 251/1pt.	4.4924

**Sub District: Enadimangalam, Panchayat: Kalanjoor**  
**Muri: Koodal, Old Sy.No. 901/1/1A**  
 Bounded by Survey Nos:

On the North by Sy. No. : 256/1, 256/2.  
 On the East by Sy. No. : 256/3, 288/1, 254, 253.  
 On the South by Sy. No. : 252.  
 On the West by Sy. No. : 214, 213.

  
**C. THAMBU CHERIAN**  
 Senior Geologist  
 Dept. of Mining & Geology  
 District Office Pathanamthitta

  
**K.N. MADHUSOODANAN**  
 Managing Partner  
 Vajra Rock Mining Industries  
 Sreenikethan, Kalanjoor  
 Pathanamthitta

Doc No. 470 of 2014 in Book I  
8 sheet 6th sheet

*[Signature]*  
Dist. Registrar  
Muzaffarpur



7 sheets.....6 sheet

~~P.P. N...~~ A26  
District Registrar / Collector

In witness whereof the parties here to have set their hands hereunto on the day and year first above written.

Signed by

(For and on behalf of the Governor of Kerala)

**C. THAMBU CHERIAN**  
Senior Geologist  
Dept. of Mining & Geology  
District Office Pathanamthitta

In the presence of

1. **Sheeja S.**  
Asst. Geologist  
Dept. of Mining & Geology  
District Office, Pathanamthitta

2. **Shryja P**  
Asst. Geologist  
Dept. of Mining & Geology  
District Office  
Pathanamthitta

Signed by

**K.N. MADHUSOODANAN**  
Managing Partner  
Vajra Rock Mining Industries  
Sreenikethan, Kalanjoor  
Pathanamthitta  
(For and on behalf of the lessee)

In the presence of

1. **K.M. Sadasarvan, Kummakatte Ariemkottar**  
Thottamoon - Konni

2. **SYARO KUMAR P.S** -   
**SYAMA BHAYAN**  
PATTANAMON.P.O, KONNI

Prepared by **M. Thulesidas.** Kochampalathil Veedu, Elamanoor  
Licence No. DNA 256

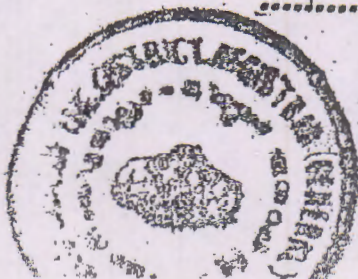
Corrections and inter-lineations: : NIL

**K.N. MADHUSOODANAN**  
Managing Partner  
Vajra Rock Mining Industries  
Sreenikethan, Kalanjoor,  
Pathanamthitta

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8 sheets, 7<sup>th</sup> sheet



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A28

P.P. Niranjan  
District Registrar / Collector

Two duplicates have been registered along with the original

This is ~~front~~ duplicate

There is no difference between the original and duplicate  
In this there are no scorings and no interlineations

Compared by { Reader V. Aravinthakumar, Sub Registrar  
Examined Shree Mathias, Sr. Clerk

Enadimengal  
05/04/14

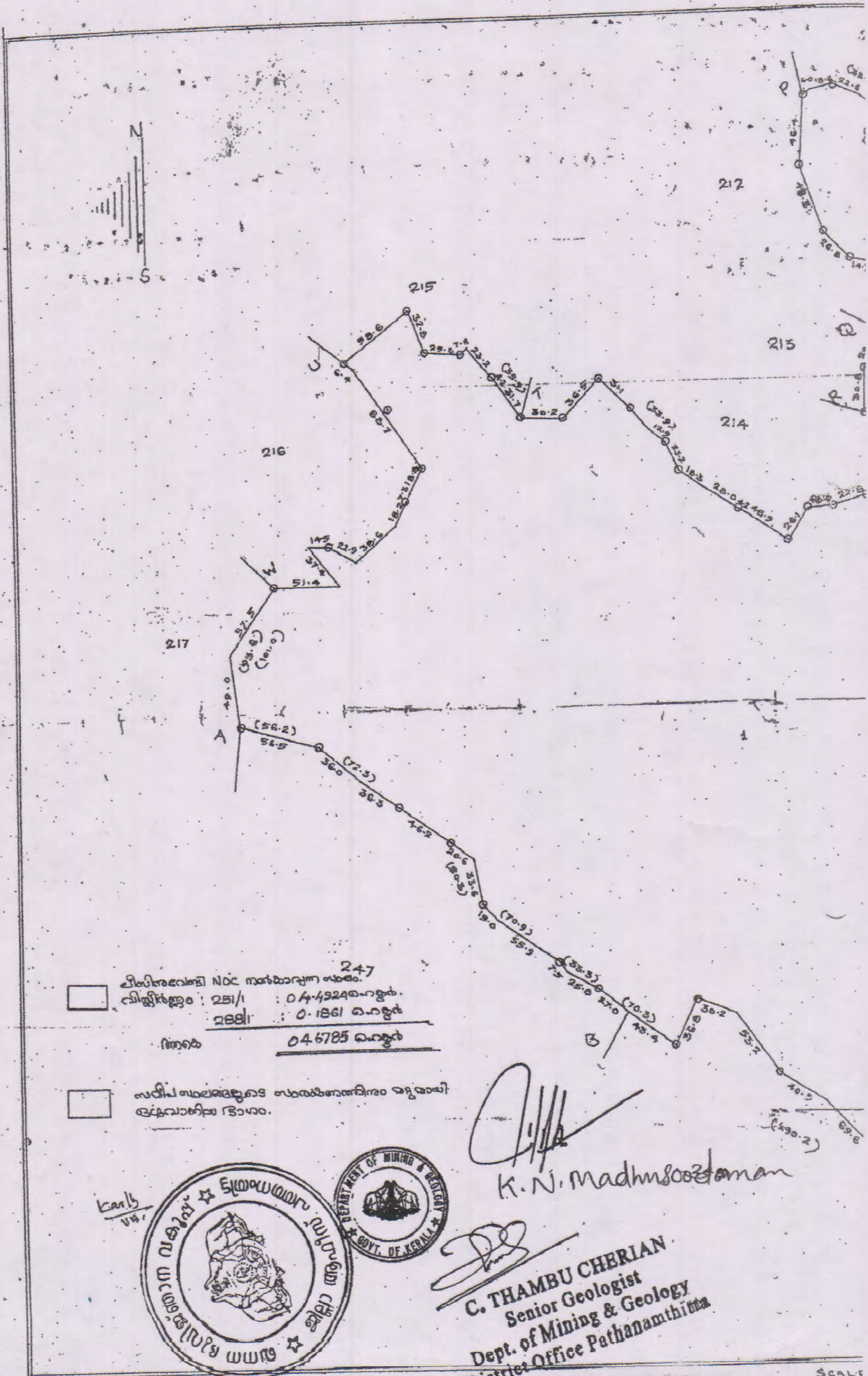
V Aravinthakumar  
Sub Registrar

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Sub Registrar

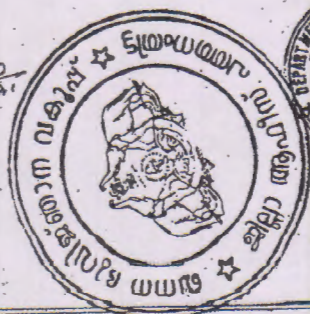
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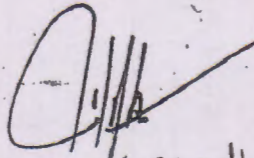


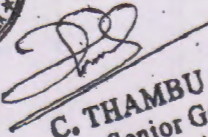
മിസിനോൺസി NOC നൽകാത്ത സ്ഥലം.  
 വില്ലേജ് : 251/1 : 04.4324 ഹെക്ടർ.  
 2881 : 0.1261 ഹെക്ടർ  
 നിന്നും 04.6785 ഹെക്ടർ

സർവ്വേ ചെയ്ത സ്ഥലങ്ങളുടെ സർവ്വേ രേഖകൾ അനുസരിച്ച് തയ്യാറാക്കിയ ഭൂപടം.

Carly  
via

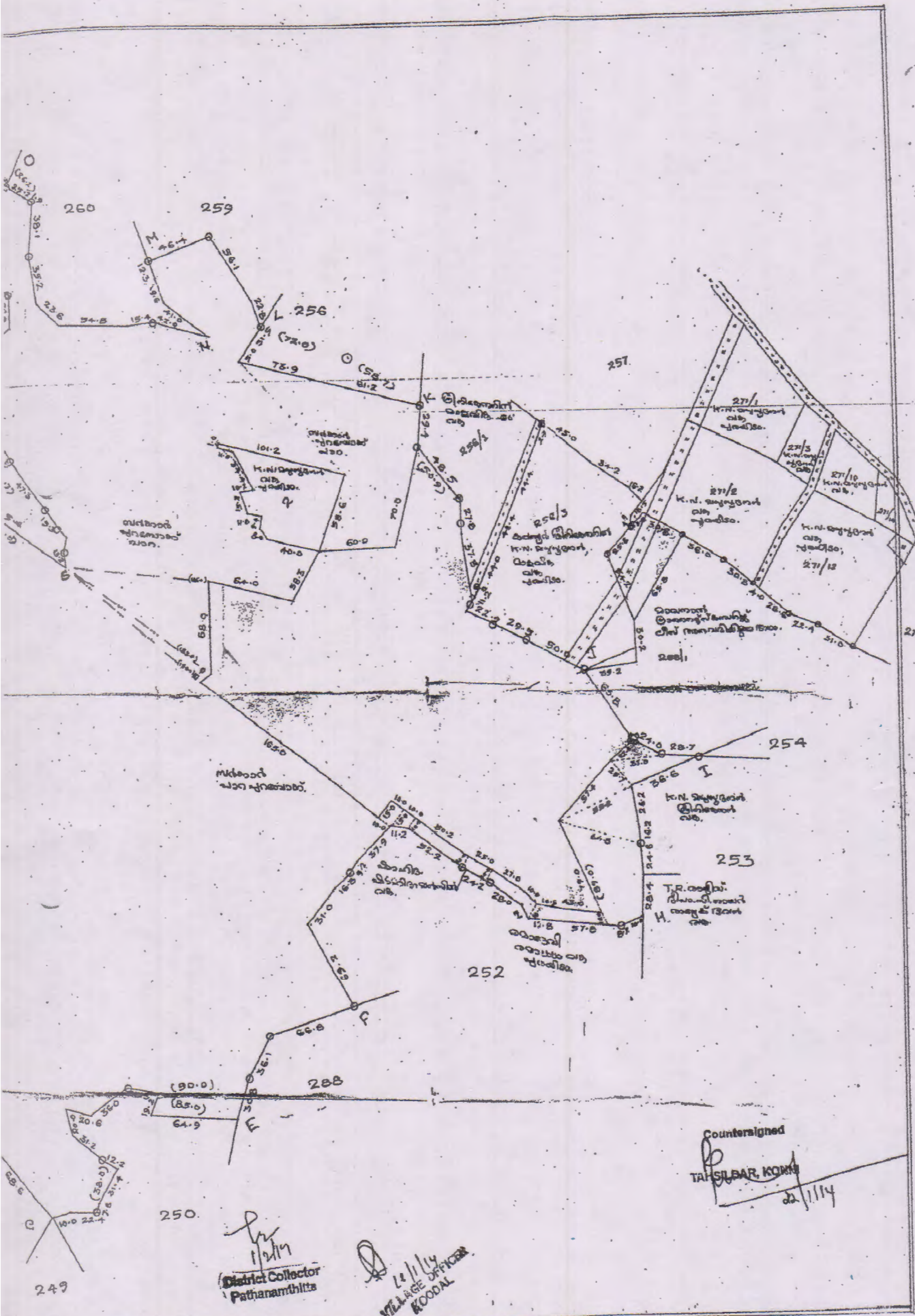


  
 K.N. Madhusoodhanan

  
**C. THAMBU CHERIAN**  
 Senior Geologist  
 Dept. of Mining & Geology  
 District Office Pathanamthitta

A30

SCALE



Counter signed  
 TAHSILBAR, KOOMAL  
 22/1/14

*[Signature]*  
 District Collector  
 Pathanamthitta

*[Signature]*  
 22/1/14  
 TAHSILBAR OFFICER  
 KOOMAL

A31

A31

Ragdepur-



Govt. of India  
Ministry of Labour & Employment  
Directorate General of Mines Safety  
Southern Zone, Bengaluru

No. SZ/BGR/106(2)(b)/P-71/2012/1080 Bengaluru, dated, the 15/8/2012.

From

Director of Mines Safety,  
Bengaluru Region (SZ),  
No.5, 17<sup>th</sup> Main, 100ft Road,  
Koramangala, 4<sup>th</sup> Block, Bengaluru-34,  
Karnataka.

To

Shri K.N.Madhusoodanan,  
Nominated Owner : M/s. Vajra Rock Mining Industries,  
Sreenikethan, Kalanjoor,  
Pathanamthitta, Kerala -689 694

Subject:- Permission under Reg. 106(2)(b) of Metalliferous Mines Regulations, 1961 to use Heavy Earth Moving Machinery with deep-hole blasting at Koodal Stone Quarry of M/s. Vajra Rock Mining Industries

Dear Sir,

Please refer to your application No.Nil dated 22-11-2012 letter No.1/VJRA/HEMM/2012 30-04-2012 in reply to this Directorate's letter No.SZ/BLR/667 dated 16-04-2012, letter No.1VJRA/HEMM/2012 dated 02-06-2012 in reply to this Directorate's letter No.SZ/BLR/1011 dated 17-05-2012, on the above subject matter

The matter has since been examined in the light of what has been stated in your application. In exercise of the powers conferred on the Chief Inspector of Mines 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 grant permission under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961 to work by deploying Heavy Earth Moving Machinery to form benches at Koodal Stone Quarry of M/s. Vajra Rock Mining Industries, subject to the conditions enumerated in the enclosed ANNEXURE - MMR 106(2)(b) being strictly complied with:

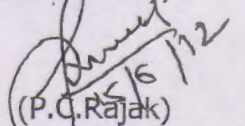
A32

This permission is being granted under Regulation 106(2)(b) of the Metalliferous Mines Regulations only, without prejudice to any other statutory requirements, which may be or may become applicable at any time.

- 1.2 ANFO shall not be used unless a proper licence for the same is obtained from competent authority.
- 1.3 Only one shift shall be worked.
- 1.4 This Directorate shall be informed as soon as mining operations are commenced in accordance with the above permission. Intimation about completion of mining operation should also be sent promptly and in any case not later than one month thereof.
- 1.5 If at any time any one of the conditions subject to which this permission has been granted is violated or not complied with, this permission shall be deemed to have been revoked with immediate effect
- 1.6 It may be amended, modified or withdrawn at any time should it be considered necessary in the interest of safety.
- 1.7 In the event of any change in the circumstances connected with this permission which is likely to endanger the life of persons employed in the mine or the mine, the mining operations for which this permission has been granted, shall be stopped forthwith and intimation thereof shall be sent to the undersigned. The said mining operations shall not be resumed without express and a fresh written permission from this Directorate.

Kindly acknowledge the receipt of the letter.

Yours faithfully,

  
(P.C. Rajak)

Director of Mines Safety  
Bengaluru Region (SZ).

Encl: Annexure -MMR 106<sub>1</sub>(2)(b).

Enclosure to Ltr. No.SZ/BGR/106(2)(b)/P-71/2011-12/ 1080 Bengaluru, dtd the 15/11/2012.

CONDITIONS FOR EXEMPTION UNDER REGULATION 106(2)(b) OF THE METALLIFEROUS MINES REGULATIONS, 1961 FOR WORKING THE OPENCAST MINE WITH HEAVY EARTH MOVING MACHINERY AND TO CONDUCT DEEP HOLE BLASTING AT KOODAL STONE MINE OF M/s VAJRA ROCK MINING INDUSTRIES:

**I - OPENCAST WORKINGS**

**1.0 Height and width of benches etc.:**

- 1.1 The height of the benches shall not be more than the reach of the machine used for digging/ excavation/ removal or 06m whichever is less.
- 1.2 The width of any bench shall not be less than the width of the widest machine plying on the bench plus two metres;  
or  
if dumpers ply on a bench, three times the width of the dumper;  
or  
the height of the bench - whichever is more.
- 1.3 Quarrying operations shall be conducted from top downwards.
- 1.4 The provisions of the Reg. 106 of the Metalliferous Mines Regulations, 1961, shall be complied with.
- 1.5 When persons are employed within 05m of the working face, adequate precautions shall be taken to ensure their safety by dressing the sides of the benches.
- 1.6 Special care shall be taken when any slip or other planes of weakness or other geological disturbances exist, so as to prevent danger to the work-persons. Working shall not be extended within 15m of the geological disturbances lying near the boundary. However, if due to presence of the geological disturbances within the property, the workings are to be extended within 15m of the geological disturbances, it shall be ensured that:  
(a) benches are formed in such a manner that these cross the disturbed area in one pass only; and  
(b) no high wall is left along the disturbed plane.
- 1.7 No person shall be engaged to work or be allowed to travel close to high sides/edge of benches, from which he will be likely to fall more than 1.8m vertically down, unless he is provided with and uses a safety belt or rope.

**2.0 Fencing around opencast workings:**

- 2.1 The top edge of the opencast workings shall be kept fenced with wire rope strands or barbed wire, supported by posts (movable) of timber, iron or concrete as detailed in Circular No.11 of 1959.

Continued.....2.

2.2 At the finishing stage, opencast workings shall be fenced with a masonry wall using lime mortar not less than 0.4 metres thick and not less than 1.2 metres high with a parapet top.

### 3.0 Precautions while Drilling:

- 3.1 The position of every deep hole to be drilled shall be distinctly marked by the Mine foreman so as to be readily seen by the drillers.
- 3.2 No person shall be permitted to remain within a radius of 60 meters on the same bench where charging of holes with explosives is being carried out.

### 4.0 Transport of Explosive :

4.1 Where explosives are transported in bulk for deep hole blasting the following precautions shall be taken :-

(a) transport of explosives from the magazine to the priming station or the site of blasting shall not be done except in the 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. The explosives shall be transported to the site of blasting not more than 90 minutes before the commencement of charging of the holes.

(b) no mechanically propelled vehicle shall be used for the transport of explosives unless it is of a type approved in writing by the Chief Inspector provided that a Jeep or Land Rover may be used for the transport of detonators from magazines to 'priming stations' subject to the following conditions :-

- i. not more than 200 detonators are transported in a vehicle at a time;
- ii. the detonators are packed suitably in a wooden box;
- iii. the wooden box containing detonators is placed, inside an outer metal case construction approved by the Chief Inspector.
- iv. the outer metal case shall be suitable bolted to the floor of the vehicle or otherwise fixed in a wooden frame so that the container does not move about while the vehicle is in motion; and
- v. no person shall ride on the rear portion of the vehicle.

(c) Every vehicle used for the transport of explosive shall be marked or placarded on both sides and ends with the work "Explosives" in white letter not less than 15 centimeters high on a red background.

(d) 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.

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

(b) Explosives and detonators shall not be transported in the same vehicle, at the same time.

Continued.....3

- 4.3 (a) No person other than the driver and his helper (not below 18 years of age) shall ride on a mechanically propelled vehicle used for the transport of explosives.
- (b) A vehicle loaded with explosive shall not be left unattended.
- (c) The engine of a vehicle transporting explosives shall be stopped and the brakes set securely before it is unloaded or left standing.
- (d) A vehicle transporting explosives shall not be driven at a speed exceed 25 kilometers per hour.
- (e) A vehicle loaded with explosives shall not be taken into garage or repair shop and shall not be parked in a congested place.
- (f) A vehicle transporting explosives shall not be refueled except in emergencies and then only when its engine is stopped and other precautions taken to prevent accidents.
- (g) No trailer shall be attached to a vehicle transporting explosives.

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

- (i) Fire extinguishers are filled and in place;
- (ii) The electric wiring is well-insulated and firmly secured;
- (iii) The chassis engine and body are clean and free from surplus oil and grease;
- (iv) The fuel tank and feed lines are not leaking; and
- (v) Light brakes and steering mechanism are in good working order.

4.5 Report of every inspection made under clause 4.4 shall be signed and dated by competent person making the inspection.

4.6 All operations connected with the transport of explosives shall be conducted under the personal supervision of a Mine Foreman solely placed in charge of blasting operations at the mine.

4.7 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 his 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.

#### **5.0 Precaution during Firing :**

5.1 Shots shall not be fired except during the hours of daylight or until adequate artificial light is provided. All holes charged on any one day shall be fired on the same day.

5.2 As far as practicable the shot-firing shall be carried out either between shifts or during the rest interval, or at the end of work for the day.

Continued.....4.

5.3 During 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;
- (d) all wire shall be removed from contact with the steel rails of a haulage track so as to prevent the charge being exploded prematurely by a local strike of the lightning.

#### 6.0 **Spoil bank:**

6.1.1 The slope of a spoil bank face shall be determined by the natural angle of repose of the material being deposited, but shall in no case exceed 37.5 degrees from the horizontal. The spoil bank face shall not be retained by artificial means at an angle in excess of natural angle of repose.

6.1.2 Any spoil bank exceeding 30 meters in height shall be benched so that no bench exceeds 30 meters in height and the general slope does not exceed 1 vertical to 1.5 horizontal.

6.2.1 The toe of a spoil-bank, dumps or stacks face shall not be allowed to approach a railway or other public works, public road or building or other permanent structure not belonging to the owner of the mine closer than a distance equal to vertical height(s) of its face.

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

6.3 No person shall approach or shall be permitted to approach the toe of an active spoil bank where he may be endangered from material rolling down the face.

6.4 Unless otherwise permitted, Backfill method of dumping spoil shall be put in use and it shall be ensured that as far as possible original profile of the ground is maintained after extraction of mineral. Possibility of slide of the backfill shall be monitored.

#### 7.0 **Roads for trucks, dumpers etc:**

7.1 All roads for trucks, dumpers or other mobile machinery shall be maintained in good condition.

Continued.....5.

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7.2 Where practicable, all roads from the opencast workings shall be arranged to provide one way traffic in which the width of the road shall not be less than one and a half times the width of the largest vehicle plying on the road.

Where this is not practicable, no road shall be of a width less than three times the width of the largest vehicle plying on that road, unless, definite turnouts and waiting points are designated.

7.3 All corners and bends on the roads shall be made in such a way those operators and drivers of vehicles have a clear view for a distance of not less than 30 m. along the road.

Wherever it is not possible to ensure a visibility for a distance of 30m there shall be provided two roads for the up and down traffic with a median.

7.4 Except with the express permission of the Chief Inspector in writing and subject to such conditions as he may specify therein, no road shall have a gradient steeper than 1 in 16 at any place, provided that in case of Ramps over small stretches a gradient up to 1 in 10 may be permitted.

7.5 Where any road exists above the level of the surrounding area, it shall be provided with a strong parapet wall or embankment or Berm not less than one meter in height to prevent any transport vehicle/machinery from getting off the road and falling to lower level.

7.6 Road signs with fluorescent paint shall be provided at every turning point for the guidance of drivers, especially at night times.

7.7 At every curve, parapet walls or vertical posts shall be provided with 'Zebra' lines shall be provided to help the drivers to keep the transport vehicle, on the track especially at night times.

### 8.0 Supervision:

8.1 During every production shift, the opencast workings shall be placed under the charge of an Assistant Manager and during maintenance shift the workings shall be placed under the charge of an Foreman, who shall be responsible to see that all the Regulations and the Orders made thereunder are strictly complied with.

8.2 He shall in particular:

(a) make frequent inspections for evidence of slides or of material that any slide or roll from the high wall (including the face and sides) or spoil-bank. Additional inspections shall also be made after every heavy rain for checking the stability of high sides/walls;

(b) not allow any person to work under overhanging ledges or where there is evidence of impending slides, until such danger has been removed;

(c) ensure that every person engaged in dressing operations on high walls is provided with and uses a safety belt of a type approved by the Chief Inspector;

Continued.....6.

- (d) ensure that all loose material is removed from high sides/wall before drillers are engaged there;
- (e) ensure that parapet walls along roads are properly maintained; and
- (f) ensure that men and machines aren't allowed to work in close proximity of each other which may endanger men by falling rock or otherwise.

## **II - MACHINERY**

### **9.0 Design & maintenance machinery & vehicle:**

- 9.1 Every equipment of earth moving machinery or equipment (herein after called machine) and every truck, dumper (hereinafter called 'Vehicle') etc., shall be maintained in good and safe working condition.
- 9.2 Every machinery or vehicle shall be provided with efficient warning devices, adequate front and rear lights and efficient brakes. Every Dumpers/Truck shall be provided with Audio-Visual warning device, which shall be actuated automatically to produce both audible and visual warning system during reversal of vehicle.
- 9.3 Every shovel shall be so designed as to afford the operator clear and uninterrupted vision all around and shall be provided with portable lamp for emergency, suitable portable fire extinguishers and retracting ladder.
- 9.4 Operators cabin of every machine or vehicle 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 for the safety of the operator shall also be provided.
- 9.5 Provisions of Regulation 176 of the Metalliferous Mines Regulation, 1961 shall be complied with.
- 9.6 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.
- 9.7 Every machine and vehicle shall be allocated at least one day in every week for maintenance. Before the machine or vehicle is sent out for work after maintenance, it shall be thoroughly inspected by the engineer, mechanical foreman or other competent person authorized by the Manager in writing, who shall satisfy himself that the machine or vehicle is mechanically sound and in efficient working order.
- 9.8 A report of every inspection made under clause (iii) 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.

Continued,.....7.

- 9.9 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. Any damaged or worn out cable shall be replaced immediately.
- 9.10 A report of every inspection made under clause (V) 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.
- 9.11 If the Engineer, Mechanical Foreman or other competent person making inspection, notices any defect in any machinery or vehicle, the said machinery or vehicle shall not be used until the defect has been remedied
- 9.12 Any defect in a machinery or vehicle reported by its operator shall be promptly attended to.
- 9.13 Any machine or vehicle 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.
- 9.14 All repair to machinery or vehicle shall be done at a location, which will provide a safe place for the persons engaged on repairs.
- 9.15 Except for testing, trial, or adjustment, which must necessarily be done while the machine or vehicle is in motion, every machine or vehicle shall be shut down and positive means taken to prevent its operation while any repair or manual lubrication is being done.
- 9.16 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.
- 9.17 Power shall be disconnected when repairs are made to any electrical machinery.
- 9.18 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.
- 9.19 Only such fitters or mechanics, which possesses driving license under Motor Vehicles Act shall be authorized by the manager to test-run the HEMM.
- 9.20 The Brakes of all trucks-dumpers and other transport vehicles 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:
  - (a) Service Brake Test: The Service brake shall be tested with the vehicle is 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.

Continued.....8.

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(b) Parking Brake Test: The parking brake shall be capable of holding the truck/dumper/transport vehicle when it is fully loaded and placed on maximum gradient of roadway which is permitted, for a period of at least ten minutes.

9.21 A record of all such test shall be maintained in a bound paged book kept for the purpose and shall be signed by the person carrying out the test and countersigned by the Engineer and Manager of the mine.

**10.0 Daily examination of machinery and vehicle:**

10.1 At the commencement of every shift, the Engineer, Mechanical Foreman or other authorized competent persons shall personally inspect and test every machine and vehicle paying special attention to the following details:

(a) the brakes and the horn or other warning devices are in working order.

(b) if the vehicle or machine is required to work after day light hours, that the lights are in working order. He shall not permit the vehicle or machine to be taken out for work not shall he drive the vehicle unless he is satisfied that it is mechanically sound and in efficient working order.

10.2 He shall also maintain a record o 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.

**11.0 Operation of Machinery:**

11.1 No person other than the operator or his helper if any or any person so authorized in writing by the manager shall ride on a Shovel or Excavator.

11.2 No person shall be permitted to ride in the bucket of a shovel or Excavator.

11.3 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.

11.4 Electrical cables, if any shall be laid in such a manner that they are not endangered either by falling rocks or by mobile equipment.

11.5 Shovel bucket or Excavator or loader shall be pulled out of the bank as soon as it is full.

11.6 When not in operation, the Shovel bucket shall be kept resting on stable ground and shall not be left hanging.

Continued.....9.

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- 11.7 When being operated in soft or unstable ground, every shovel or excavator shall be supported by heavy planks or poles so as to distribute the load of the machine over larger area and to prevent any danger of the shovel overturning. When not in use, at the shovel or excavator shall be moved to and stood on a stable ground.
- 11.8 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.

**12.0 Duties of machinery operators:**

- 12.1 Every shovel shall be under the charge of a competent person authorized in writing by the Manager, hereinafter known as 'Operator'.
- 12.2 At the commencement of every shift, the operator shall personally inspect and test the machine, paying special attention to the following details.
- 12.3 That the brakes and every warning device are in working order.
- 12.4 If it is required to work after the day light hours, all the lights on the vehicle are in working order.
- 12.5 Operator shall not take out the machine for work nor shall he work the machine unless he is satisfied that it is mechanically sound in efficient working order.
- 12.6 The operator shall not operate the machine when persons are in such proximity as to be endangered.
- 12.7 Operator shall not swing the bucket of a shovel over passing haulage units and other. While truck are being loaded he shall swing over the body of the truck/dumper and not over the cab, unless the cab is protected by a substantially strong cover.
- 12.8 The operator shall not allow any unauthorized person to ride on the machine.

**13.0 Operation of the trucks-dumpers & other transport vehicles:**

- 13.1 The Manager of the mine shall frame a Standard Operating Guidelines/Code of Practice for operation of trucks-dumpers and other vehicles on the following aspects and ensure its compliance:
- (a) Notice specifying maximum load and speed of vehicle.
- (b) Posting of warning notices for attention of vehicle operators at strategic places, viz. haul roads, curves, turning points, level crossing etc.
- (c) Authorization to persons to ride on vehicles.

Continued.....10.

- (d) Prevention of unauthorized driving by introduction of a system whereby the ignition key and/or cabin key always remains with the driver/operator or specifically designated competent persons.
- 13.2 No person shall be permitted to ride on the running board of a truck or dumper.
  - 13.3 As far as possible, loaded dumpers or trucks shall not be reversed on gradients.
  - 13.4 Sufficient stop blocks shall be provided at every tipping point and these shall be used on every occasion when material is loaded/dumped from the dumper, truck or other such vehicle.
  - 13.5 Standard traffic rules shall be framed and followed during movement of all trucks and dumpers. They shall be prominently displayed at the relevant places in the opencast workings and truck/dumper roads.
  - 13.6 When not in use every truck or dumper or other transport vehicle shall be moved to and parked at proper parking places.
  - 13.7 No person shall be permitted to work on the chassis of a truck or dumper with the body in a raised position until after the truck or dumper body has been securely blocked in position. The mechanical hoist mechanism alone shall not be depended upon to hold the body of the truck or dumper in raised position.
  - 13.8 No unauthorized person shall be permitted to enter or remain in any dumping yard or turning points.
  - 13.9 While vehicle is being loaded/unloaded on a gradient, the same shall be secured on a stationary position by parking brake and other stop blocks, suitably designed for the purpose shall be placed below the tyres.
  - 13.10 Tractor-trailer combination shall normally not be allowed on haul roads. (Where inevitable, only four wheeler trailers with separate brakes of their own shall be used. The operators shall also be suitably trained on right selection of gears while negotiating steep gradient.
  - 13.11 No trucks-dumpers and other transport vehicles other than that of mine management shall be allowed to enter mine premises without a valid pass issued by the manager. No pass shall be issued unless the truck/dumpers or other transport vehicle is checked by the Engineer of the mine and road worthiness is ensured and declared fit by him and the driver holds a valid license under Motor Vehicles Act.
  - 13.12 In order to check entry of unauthorized vehicles in mine premises properly manned check gate(s) shall be established at entrance(s), where record of examinations mentioned above for its roadworthiness and gate passes shall be checked. All the entries and exits shall be logged in a register maintained for the purpose along with date and time.

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## 16.0 Precautions against fire in the machines:

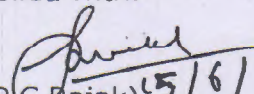
- 16.1 Portable fire extinguishers shall be provided in the operator's cabin of every machine and suitably placed in such a way that these are within easy reach of the operators.
- 16.2 To avoid serious hazard to life and property due to fire, Automatic Fire Protection System shall be provided and maintained in working order for heavy earth moving machinery such as, Shovels, Drills, Dumpers etc. It is also necessary that the recommended procedure for testing of such fire protection system as given in the schedule by the manufacturer shall be adopted. Optical, Thermal or any other suitable types of sensing devices shall be suitably located to sense the fire and actuate the suppressant to come out through the nozzles already fixed to deal with the fire. An over riding manual system along with fire alarm shall also be additionally provided for better effectiveness of the system.

## 17.0 General Lighting:

- 17.1 Where natural lighting is insufficient, adequate general lighting as per the standards laid down in Notification No. GSR 804 dated 18-06-75 published in the Gazette of India dated 28-06-75, Part III Section 3(1) (reproduced in DGMS (Legis.) Circular No.1 of 1976) shall be provided during working hours, in the opencast workings and along haul roads/other roads etc. For proper inspection of the high sides and benches of the opencast working at night, suitable searchlights shall be provided. The individual workers shall also be provided with electric cap lamps to be of use when they have to go in poorly illuminated places.
- 17.2 Illumination survey shall be done at regular intervals, atleast once in every quarter and a record of such survey along with a plan shall be maintained.

## 18.0 Precautions against Noise and Vibration in the working environment:

Suitable steps should be taken by all appropriate means to reduce the exposure of workers to any excessive noise and vibration. In this connection, the requirements of DGMS (Tech) Circular No.18 of 1975 shall be complied with.

  
(P.C. Rajak) 5/6/12

Director of Mines Safety,  
Bengaluru Region.

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**KERALA STATE POLLUTION CONTROL BOARD**

FILE NO. :PCB/PTA/ICO/QR/22/2007

Date of issue :01/02/2018

**INTEGRATED CONSENT TO OPERATE - RENEWAL**

Consent No : QCO/PTA/22/R3/2017

Ref : 1.CONSENT NO:PCB/PTA/ICO/QR/22/R2/2014,DATE OF ISSUE:24/10/2014,VALID UP TO:31/12/2017

2.APPLICATION NO:5990693,SUBMITTED ON:28/09/2017

The ' Integrated Consent to Operate' issued as per reference above to M/s VAJRA ROCK MINING INDUSTRIES,KALLIPARA, NIRATHUPARA P.O, KOODAL, PATHANAMTHITTA. is hereby renewed up to 31/12/2020 and issued to M/s VAJRA ROCK MINING INDUSTRIES,KALLIPARA, NIRATHUPARA P.O, KOODAL, PATHANAMTHITTA. The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

**I. GENERAL**

S.No.	Items	Description
1	1.1. Validity	31/12/2020
2	1.1.a. Month and year of renewal	September 2020
3	1.5. Survey Number	251/1
4	1.13.Capital Investment	4.67 crore
5	1.16. Machinery Details	Excavator(1 no)-150 HP,Breaker(1 no)-150 HP,Compressor(1 no)-163 HP,Tipper(3 nos),Water Tanker(1 no)
6	1.12 Fee Remitted	Rs.60,000/- (Rs.45,000 + Rs.15,000). The fee remitted is based on the old slab.

**II. Stack Details**

Stack No.	Source of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

### III. CONDITIONS

- 3.1. This consent is granted based on the application, affidavit and other particulars filed by the occupier, certificate from the Village officer and subject to the power of the Board to review and made variation in or revoke the conditions as the Board deems fit.
- 3.2. No change, deviation or alteration that may affect the environment, extent and location of quarry shall be made.
- 3.3. Any change in particulars furnished in the application/the identity of the occupier/ authorized agent is to be intimated to the Board forthwith.
- 3.4. Quarrying shall be done only within the area marked in the location plan.
- 3.5. Quarrying area shall be earmarked before commencement of quarrying activities.
- 3.6. Blasting and quarrying shall be done without causing any nuisance or damage to occupants of adjoining or neighboring land or building or posing damage to health, life or property.
- 3.7. 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.
- 3.8. Proper fencing/barriers shall be provided and maintained all around the abandoned deep quarry pits to avoid accidents.
- 3.9. Mining below normal water table by continuous pumping shall be avoided in summer period (March, April & May) to prevent drinking water shortage in that area.
- 3.10. Noise creating activities such as drilling, blasting, breaking loading etc shall not be done during night time (6pm - 6am).
- 3.11. Blasting shall be done at specified time with prior signals to avoid accidents.
- 3.12. The PM10 in ambient air at the boundary shall not exceed 100 microgram/m<sup>3</sup>, max.
- 3.13. The Sound level (Leq) at 1m outside the boundary of the site and near residential locations should not exceed the ambient noise standard applicable to the adjoining areas.
- 3.14. "The consent issued from the Board will be valid only for a period during the period when all other statutory or necessary clearances from other concerned authorities are valid. The consent issued from the Board is only with respect to the powers vested under the Water Act, 1974, Air Act 1981 and Rules there under. The operation of the unit shall be commenced only after obtaining clearances from all concerned authorities".

3.15.No other machinery shall be operated without prior Consent of the Board.

3.16.Quarrying operations shall be started only after obtaining Mining permit/lease from Mining & Geology Department and D & O License under the Kerala Panchayat Raj Act from the concerned Local Self Government.

3.17.Adequate safety measures shall be provided in accordance with the fire safety regulations.

3.18. The applicant shall put up sign boards near the main entrance of the plant to display consent number & validity.

3.19. Condition no. II is deleted.

3.20. The applicant shall remit consent fee arrears based on the new slab as per instructions from this office.

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

Digitally signed by ALEXANDER  
GEORGE  
Date: 2018.01.31 02:10:20 +05'30'  
**ALEXANDER GEORGE**  
SIGNATURE & SEAL OF ISSUING AUTHORITY  
ENVIRONMENTAL ENGINEER, District Office,  
Pathanamthitta

DATE :01/02/2018



To  
K N MADHUSOODANAN  
SREENIKETHAN  
KALANJOOR P O  
PATHANAMTHITTA  
PIN:689694

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

2. For verifying this document please go to [krocmmms.nic.in](http://krocmmms.nic.in) 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 Online Consent



## KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/PTA/ICO/QR/22/2007

Date of issue :10/05/2018

### INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : QCO/PTA/22/R3/2018

Ref : 1.CONSENT NO:PCB/PTA/ICO/QR/22/R2/2014,DATE OF ISSUE:24/10/2014,VALID UP TO:31/12/2017

2.APPLICATION NO:5990693,SUBMITTED ON:28/09/2017

The ' Integrated Consent to Operate' issued as per reference above to M/s VAJRA ROCK MINING INDUSTRIES,KALLIPARA, NIRATHUPARA P.O, KOODAL, PATHANAMTHITTA. is hereby renewed up to 31/12/2020 and issued to M/s VAJRA ROCK MINING INDUSTRIES,KALLIPARA, NIRATHUPARA P.O, KOODAL, PATHANAMTHITTA. The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

#### I. GENERAL

S.No.	Items	Description
1	1.1. Validity	31/12/2020
2	1.1.a. Month and year of renewal	September 2020
3	1.12.Annual fee/Fee remitted	Rs.43350/- Rs.1,30,050/- (Rs.45,000 +Rs.15,000 + Rs.70,050)
4	1.13. Capital Investment	4.67 crore
5	1.16. Machinery Details	Excavator(1 no)-150 HP,Breaker(1 no)-150 HP,Compressor(1 no)-103 HP,Tipper(3 nos),Water Tanker(1 no)
6	1.5. Survey Number	251/1 (4.67 Hectares)

#### II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

### III. CONDITIONS

- 3.1. This consent is granted based on the application, affidavit and other particulars filed by the occupier, certificate from the Village officer and subject to the power of the Board to review and make variation in the conditions or revoke the consent as the Board deems fit.
- 3.2. The Validity of this consent is subject to subsequent Government Order & direction/judgement of Honourable Supreme Court of India, High Court, and National Green Tribunal.
- 3.3. No change, deviation or alteration that may affect the environment, extent and location of quarry shall made.
- 3.4. Any change in particulars furnished in the application/the identity of the occupier/ authorised agent is to be intimated to the Board forthwith.
- 3.5. There shall be a minimum distance of 50m/100m as applicable from boundary of quarry operating area to residential building, place of worship, public buildings, public road having vehicular traffic, river or lake, railway line, bridges etc.
- 3.6. Quarrying shall be done only within the area marked in the location plan.
- 3.7. Quarrying area shall be earmarked before commencement of quarrying activities.
- 3.8. The applicant shall put up sign boards near the main entrance of the plant to display consent number & validity.
- 3.9. 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.
- 3.10. Proper fencing/barriers shall be provided and maintained all around the abandoned deep quarry pits to avoid accidents.
- 3.11. Mining below normal water table by continuous pumping shall be avoided in summer period (March, April & May) to prevent drinking water shortage in that area.
- 3.12. Noise creating activities such as drilling, blasting, breaking loading etc shall not be done during night time (6pm – 6am).
- 3.13. Blasting shall be done at specified time with prior signals to avoid accidents.
- 3.14. The PM10 in ambient air at the boundary shall not exceed 100 micro gram/cubic meter.
- 3.15. The Sound level (Leq) at 1m outside the boundary of the site and near residential locations should not exceed the ambient noise standard applicable to the adjoining areas.
- 3.16. "The consent issued from the Board will be valid only for a period during the period when all other statutory or necessary clearances from other concerned authorities are valid. The consent issued from the Board is only with respect to the powers vested under the Water Act, 1974, Air Act 1981 and Rules there under. The operation of the unit shall be commenced only after obtaining clearances from all concerned authorities". The consent unless withdrawn earlier and subject to condition no. 5.1 & 5.2 shall be valid up to 31/12/2020. For renewal, application shall be submitted 3 months in advance of the expiry date of the consent.
- 3.17. No other machinery other than that in 1.16 shall be operated without prior Consent of the Board.
- 3.18. Quarrying operations shall be started only after obtaining Mining permit/lease from Mining & Geology Department and D & O License under the Kerala Panchayat Raj Act from the concerned Local Self Government.
- 3.19. The applicant shall submit copies of all relevant permits/lease/certificate/licenses periodically to this office to ensure the validity of this consent.

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3.20. Adequate safety measures shall be provided in accordance with the fire safety regulations.

3.21. Condition no.II of this consent is deleted.

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

**ALEXANDER GEORGE**

Digitally signed by ALEXANDER  
GEORGE

Date: 2018.05.10 11:52:54 +05'30'

**SIGNATURE & SEAL OF ISSUING AUTHORITY**

**ENVIRONMENTAL ENGINEER, District Office,  
Pathanamthitta**

DATE :10/05/2018



**To**  
**K N MADHUSOODANAN**  
**SREENIKETHAN**  
**KALANJOOR P O**  
**PATHANAMTHITTA**  
**PIN:689694**

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

2. For verifying this document please go to [krocmms.nic.in](http://krocmms.nic.in) 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 Online Consent Management and Monitoring System.

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## KERALA STATE POLLUTION CONTROL BOARD

FILE NO. : PCB/PTA/ICO/QR/22/2007

Date of issue : 02/11/2020

### INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : QCO/PTA/22/R4/2020

Ref : 1.CONSENT NO:QCO/PTA/22/R3/2018, DATE OF ISSUE:10/05/2018,VALID UP TO:31/12/2020  
2.ONLINE APPLICATION NO:13967227

The Integrated Consent to Operate issued as per reference above to M/s VAJRA ROCK MINING INDUSTRIES,KALLIPPARA, NIRATHUPARA P.O., KODAL, PATHANAMTHITTA is hereby renewed up to 31/03/2024 and issued to M/s VAJRA ROCK MINING INDUSTRIES,KALLIPPARA, NIRATHUPARA P.O., KODAL, PATHANAMTHITTA. The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

#### I. GENERAL

S.No.	Items	Description
1	1.05. Survey Number	251/1 (4.67 Hectares)
2	1.12. Annual Fees/ Fees Remitted	Rs.43,350/-, Rs.1,73,400-/(Excess - Rs.43,350/-)

#### II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm <sup>3</sup> /Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

#### III. CONDITIONS

- 3.1 The consent unless withdrawn earlier 2 shall be valid up to 31.03.2024.For renewal of consent, application may be submitted online 2 months in advance of expiry of validity date, along with the revalidated quarrying lease.
- 3.2 The consent issued will be valid only for the period when all other statutory or necessary clearances from other concerned authorities are valid.

3.3 The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water and land pollution.

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

SUCHITRA V

Digitally signed by SUCHITRA V  
Date: 2020.11.02 10:47:37 +05:30

DATE : 02/11/2020

SIGNATURE & SEAL OF ISSUING AUTHORITY  
ENVIRONMENTAL ENGINEER



To  
Sri. K.N. Madhusoodhanan  
Sreenikethan

Kalanjoor P.O.  
Pathanamthitta-689694

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Phone : 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

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## TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/AMB/RT/10564/2022
M/s.Vajra Rock Mining Industries Sreenikethan Kalanjoor Pathanamthitta	Date of issue:	10/12/2022
	Date of monitoring	05/12/2022
	Date of sample received:	06/12/2022
	Date of analysis	06/12/2022
	Monitoring Location	Quarry owned by M/s.Vajra Rock Mining Industries Survey Numbers : 251/1 Village : Koodal Taluk : Konni Panchayath: Kalanjoor District : Pathanamthitta ,Kerala
	Sample description	Ambient air - Near East side boundary
	Sample code given by client	Nil

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limit as per NAAQS
01	Particulate Matter (PM <sub>10</sub> )	I S 5182 Part 23 2006RA2012	54.2 µg/m <sup>3</sup>	100 µg/m <sup>3</sup>
02	Particulate Matter (PM <sub>2.5</sub> )	CPCB	26.4 µg/m <sup>3</sup>	60 µg/m <sup>3</sup>
03	Sulphur dioxide	I S 5182 Part 2 2001 RA 2017	4.6 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	3.8 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>

Note: NAAQS-National Ambient Air Quality Standards

\* End of the Report\*

The results are related only to the sample collected for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory	For and on behalf of POLUCHEM LABORATORIES (P) LTD.  SREENIBASESH AUTHORIZED SIGNATORY QUALITY MANAGER
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## TEST REPORT

Page 01 of 01

Ref.No. PL/RT/SW/10567/2022

Name & address of customer

Date of Issue: 10/12/2022

: Quarry owned by M/s.Vajra Rock Mining Industries

Survey Numbers : 251/1

Village : Koodal

Taluk : Konni

Panchayath: Kalanjoor

District : Pathanamthitta ,Kerala

Sample drawn by

: Poluchem Laboratory Sample Collector

Sample description

: Water Sample

Location of sampling

: Pond Water -Outside-North Side-Own property

Date of sample collected

: 05/12/2022

Date of analysis started

: 06/12/2022

Date of completion of analysis

: 09/12/2022

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983 RA2017	5 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	0.9 NTU	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	5.87	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	48 mg/l	500 mg/l
Total Hardness as CaCO <sub>3</sub>	IS 3025 (P) 21 – 1983 RA2014	10.2 mg/l	200 mg/l
Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (P) 23 – 1986 RA2014	6.5 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 – 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl <sup>-</sup>	IS 3025 (P) 32 – 1988 RA2014	14.5 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	3.65mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	1.54 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.41 mg/l	1 mg/l
Sulphate as SO <sub>4</sub>	IS 3025 (P) 24 – 1986 RA2009	5.64 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	BDL	1.0 mg/l
Biochemical Oxygen Demand (3 days at 27° C)	IS 3025 (P) 44 – 1993RA 2014	3.8 mg/l	-
Chemical Oxygen Demand	IS 3025 (P) 58 – 2006 RA2017	18 mg/l	-
Dissolved Oxygen	IS 3025 (P) 44 – 1989RA 2014	5.2 mg/l	-
Zinc as Zn	IS 3025 (P)49 – 1994 RA2014	BDL	5 mg/l
Manganese as Mn	IS 3025(P) 59– 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41– 1992 RA2014	BDL	0.003 mg/l
Lead as Pb	IS 3025(P) 47– 1994 RA2014	BDL	0.01 mg/l
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	90	Absent
Ecoli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

\* End of the report\*

Authorised Signatory

SREEJA RAMESH

QUALITY MANAGER

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**TEST REPORT**

<b>Client Name &amp; Address</b>	<b>Certificate No:</b>	<b>PL/RT/SO/10565/2022</b>
M/s.Vajra Rock Mining Industries Sreenikethan Kalanjoor Pathanamthitta	<b>Date of issue:</b>	10/12/2022
	<b>Date of monitoring</b>	05/12/2022
	<b>Monitoring Location</b>	Quarry owned by M/s.Vajra Rock Mining Industries Survey Numbers : 251/1 Village : Koodal Taluk : Kouni Panchayath: Kalanjoor District : Pathanamthitta ,Kerala
	<b>Sample Description</b>	Soil
<b>Parameter</b>	<b>Test Method</b>	<b>Results</b>
pH	IS 2720(Part25)-1973	5.94
Electrical Conductivity	IS 14767:2000RA2016	87 µS/cm
Potassium as K	EPA 3050 B	54 mg/kg
Phosphorus as P	IS 10158 :1982 RA 2014	28 mg/kg
Nitrogen as N	IS 14684: 1999 RA 2014	124 mg/kg
Organic Carbon	IS2720(Part 22)-1972	0.54 %
Calcium	EPA 3050 B	65 mg/kg
Magnesium	EPA 3050 B	43 mg/kg
Chloride	UEPA9212	98 mg/kg
Sulphate	IS 2720 Part27:1977	54 mg/kg

For PoluChem Laboratories (P) Ltd.

Authorized Signatory.

**SREEJA RAJESH**

QUALITY MANAGER

POLUCHEM LABORATORIES (P) LTD.

\*End of the Report\*

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## TEST REPORT

Page 01 of 01

<b>Client Name &amp; Address</b>		<b>Certificate No:</b>	<b>PL/RT/SD/10566/2022</b>				
M/s.Vajra Rock Mining Industries Sreenikethan Kalanjoor Pathanamthitta		<b>Date of issue:</b>	10/12/2022				
		<b>Date of monitoring</b>	05/12/2022				
		<b>Monitoring Location</b>	Quarry owned by M/s.Vajra Rock Mining Industries Survey Numbers : 251/1 Village : Koodal Taluk : Konni Panchayath: Kalanjoor District : Pathanamthitta ,Kerala				
		<b>Sample Description</b>	Ambient Sound Level -East Side				
<b>HOURLY INTERVAL</b>	<b>RESULT</b>	<b>HOURLY INTERVAL</b>	<b>RESULT</b>				
06.00 Hrs	47.6 dB (A)	23.00 Hrs	39.4 dB (A)				
07.00 Hrs	48.9 dB (A)	00.00 Hrs	38.6 dB (A)				
08.00 Hrs	49.6 dB (A)	01.00 Hrs	39.5 dB (A)				
09.00 Hrs	51.2 dB (A)	02.00 Hrs	39.8 dB (A)				
10.00 Hrs	50.2 dB (A)	03.00 Hrs	38.7 dB (A)				
11.00 Hrs	49.8 dB (A)	04.00 Hrs	39.5 dB (A)				
12.00 Hrs	51.3 dB (A)	05.00 Hrs	40.2 dB (A)				
13.00 Hrs	49.8 dB (A)						
14.00 Hrs	48.6 dB (A)						
15.00 Hrs	47.2 dB (A)						
16.00 Hrs	46.3 dB (A)						
17.00 Hrs	45.6 dB (A)						
18.00 Hrs	46.3 dB (A)						
19.00 Hrs	45.6 dB (A)						
20.00 Hrs	41.3 dB (A)						
21.00 Hrs	39.8 dB (A)				Leq Day	48.6 dB (A)	
22.00 Hrs	38.7 dB (A)				Leq Night	39.5 dB (A)	

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time55dB(A).

Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)

Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

\*End of the Report \*

For PoluChem Laboratories (P) Ltd.

Authorized Signatory

SREEJA RAMAKRISHNAN  
QUALITY MANAGER

POLUCHEM LABORATORIES (P) LTD.

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