

GSTIN:32AAPFA5874K1Z1



AISWARYA GRANITES

Elavinmoodu, Arkannoor
Ayoor, Kollam, Kerala -691533
Email: aiswaryagranites@gmail.com

A.M. Chackochan
(Managing Partner)
Mob: 9645989915
Molly Chackochan
Mob: 9846376945
Tinson John
Mob: 8086148888

Date

Dt. 04-07-2018

The Director- IA. II (M),
Ministry of Environment, Forests & Climate Change,
Indira Paryavaran Bhawan, Jor Bagh Road,
New Delhi-110 003.

Sub.:- Environmental Clearance - Proposed "Building Stone Mine" situated at Sy. Nos. 118 (pt.), 117/7-2, 117/7-3, 117/5-2, 120, Village Elamad, Taluk Kottarakara, District Kollam, Kerala for an area of 8.0563 ha - B2 Category - 33rd EAC (Item No. 2.41) - Clarification - Reg.

Ref: 1. Proposal No. IA/KL/MIN/74806/2018 & File No. J-11015/46/2018-IA.II(M)
2. Minutes of 33rd EAC meeting held on 21st/22nd June, 2018 (Item No. 2.41)

Respected Sir,

This is in reference to the minutes of 33rd EAC meeting held on 21/22 June, 2018. The EAC sought the following information:-

- i. Clarification from Directorate of Mines and Geology, Govt. of Kerala regarding existing mines, its operations, owner, production details since inception of the mine, details regarding mining already carried out in the proposed mine lease and cluster details. An authenticated map by DMG showing different mine leases (broken and proposed) and proposed mine lease along with land survey numbers to be submitted. In case, all the leases belong to the same project proponent, the production details since inception of the mine shall be submitted.
- ii. Whether illegal mining has been carried out in the existing or proposed lease under Mines Act, 1957 shall be clarified by the DMG.
- iii. Mining Plan for five years approved by Directorate of Mines and Geology.
- iv. Complete details of Court case pending before Hon'ble High Court of Kerala.

In regard to this we hereby submit the following:-

1. Cluster Certificate issued by Mining & Geology Department, Govt. of Kerala, stating that there is no quarry in operation within 500m. of the proposed mine lease area.
(Annexure No. 1)
2. Explanatory note on the mining activity appearing in the proposed mine lease area is given below:-
 - It appears that mining activity is carried out in a portion of the proposed mine lease area.

Contd....

- Mining was carried out in the proposed mine lease area (Sy. No. 118 & 120) with mine lease issued by Mining & Geology Department during the period 2004-2009 by M/s Bhagheeratha Energy Controls Ltd. The copy of mine lease is attached as **Annexure No. 2** (Mine Lease for Sy. No. 118 for an area of 2 ha.) & **Annexure No. 3** (Mine Lease for Sy. No. 120 for 0.44 ha.). After the expiry of the mine lease, there is no mining activity in the said Survey Numbers.
 - Copy of the Survey Sketch duly signed by Tahsildar is attached as **Annexure No. 4**. This is to show that Sy. No. 118 & 120 is within the proposed mine lease area.
 - Currently there is no mining operations in the proposed mine lease area. A certificate is issued in this regard by the District Geologist and the copy of the same is attached as **Annexure No. 5**.
3. The Mining plan duly authenticated by Department of Mining & Geology, Govt. of Kerala is attached as **Annexure No. 6**
4. The details of Court case are as follows:-

Writ Petition No. : Civil 10132 of 2018, High Court of Kerala.

The Case is pending in Hon'ble High Court of Kerala. A notice is issued and a copy of the Writ Petition is received at our end. No Order is passed by Hon'ble High Court of Kerala till date.

In view of the above submissions we humbly request you to consider our clarification and accord Environmental Clearance to the project.

Thanking you,
Yours respectfully,

For AISWARYA GRANITES

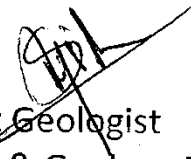


A.M. CHACKOCHAN
(Managing Partner
Encl. :- As above

ANNEXURE NO. 1

CERTIFICATE

This is to certify that there is no quarry in operation within 500 m of the quarry of M/s. Aiswarya Granite situated at Survey No. 118(pt), 117/7-2, 117/7-3, 117/5/2, 120 of Elamad village, Elamadu Panchayath, Kottarakkara Taluk, Kollam District, Kerala for an area of 8.0563 ha.


District Geologist
Mining & Geology Department
District Office Kollam, Kerala

This certificate is issued to produce before the SEIAA, Kerala



ANNEXURE NO. 2

2444/2004

100Rs



FORM - 'H'
(See Rule 32)

Quarrying Lease

This indenture made this 16th day of April 2004 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 Shri J George, aged 50 years, Son of Sri V John, Asst. Manager, Bhagheeratha Energy Controls Ltd, Dr. MKK Nair Road, Vazhakkala, Kakkanad, Ernakulam 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.

Witnesseth that in consideration of the rents and royalties and lessee's/covenants, hereinafter reserved and contained the State Government doth hereby demise unto the lessee/the land measuring 2 hectares described in the schedule hereunder the delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of five (5) years commencing from the 16th day of April 2004 and ending on the 15th day of April 2009 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.



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SECRET, KOLLAM

262
13.4.04

100 ന്റെ ഭാഗം, കോടം,
അവസ്ഥ എന്തായി
വെച്ചു കൊടുത്തു.

Doc No 2444/2004.

Presented at the Office of the
Sub Registrar Kollam at 12.20 PM on
the 15th day of July 2004 and paid a
fee of Rs. 800/- only by.

J. George.
Residing at M. P. Residence.
15th July 2004 Sub Registrar
Execution Admitted by

J. George

J. George.
S/o U. John Asst Manager,
Bhadravathi Energy Control Residing
at M. P. Residence, Thumpamon.
Identified by


P. Radhany
Chandran

J. George

Identified by Chandran Pillai Residing at Katturamathi House, Kollam.

The lessee shall have the right in and upon 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 off the said minerals extracted as aforesaid.

01. 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.
02. The lessee shall pay to the State Govt. an yearly surface rent equal to the land revenue if any, assessable under the rules for the time being in force, or if the land be the property of Government or in reserve forest then equal to the land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee 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.
03. 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 minerals extracted and the weight and value of the said mineral sold or exported together with the names of the purchasers or consignees. The lessee shall also, maintain a register of employees showing therein separately men, women 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 there from. The lessee shall submit reports in Forms 'F' and 'C' on the specified dates.
04. 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.



LESSEE





REVENUE OFFICER, KOLLAM

REVENUE DEPARTMENT
KOLLAM

செய்துள்ள இலாகாவில்
பதிவு செய்துள்ளதில்
பதிவு செய்துள்ளதில்

I have satisfied myself as to the
execution of this document is admitted
by Geologist, District Office of the Dept.
of Mining and Geology Kollam for and
on behalf of Governor of Kerala and
who is exempted from personal appearance
under Section 88(1) of Indian Regn Act

15th July 2004 Sub Registrar V. Radhamany Alumb

Registered as no 2444 of 2004 of Book 1
Volume 1668 pages 183 to 184. 6 sheets
2nd sheet

15th July 2004 Sub Registrar V. Radhamany
Alumb

Return

maintain and keep in repair boundary lines and boundaries of the said lands according to the demarcation shown in the plan hereto annexed.

06. No quarrying operations 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 a 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).

07. 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 source in order to prevent danger to persons employed in the quarry.

08. 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.

09. 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 order which the Central and State Governments as the result of such inspection or otherwise, may from time to time pass.

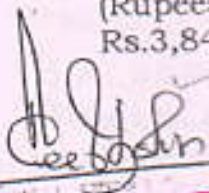
For BHAGHEERATHA ENERGY
CONTROLS LIMITED



[Signature]
20/11/13

receive from the lessee such penalty for the breach as may be fixed by the competent authority five times the amount of the said yearly dead rent as the competent authority may fix.

15. If at the expiration of three calendar months after the expiry of the lease or its sooner determination, there shall remain in or upon the 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.
16. 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 the safety, health and convenience of the lessee's employees or of the public, whether under the Indian Mines Act or otherwise.
17. The lessee shall without delay send to the District Collector and the competent authority or the officer authorized by him in this regard report of any accident causing loss of life or serious bodily injuries or seriously affecting or endangering life or property which may at any time occur at or in the said lands in the course of operations under this lease.
18. The lessee shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may prescribe.
19. 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 therewith.
20. 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 Rs.16/- (Rupees Sixteen only) per tonne for a period of one year Rs.3,84,000/- (Rupees Three Lakhs Eighty-four Thousand only).


Lessee




DISTRICT COLLECTOR, KOLLAM

21. Dead rent realizable at the rate of Rs.3200/- (Rupees Three thousand and two hundred only) per hectare subject to revision from time to time. Surface rent at the rate of Rs.100/- (Rupees One hundred only) per hectare for one year is Rs.200/- (Rupees two hundred only) Security deposit is Rs.1000/- (Rupees One thousand only). One duplicate copy is also executed along with this deed.

The schedule above referred to description of Land.

District Taluk	Village or Amsom	Re-survey/ Survey No. Of the area	Area in Hectares
Kollam Kottarakkara	Elamad	118 of Block No:27/8	2 Hectors

Bounded by
Sy. Nos.

On the North by	:	118, 117/14
On the East by	:	115/17
On the south by	:	118 and
On the West by	:	118, 117/14

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

Signed by:

For and on behalf of the Governor of Kerala

In the presence of:

- (1) R. Gopakumar, Asst. Geologist, Dept. of Mining & Geology, Kollam
- (2) S.R. Mohan Pillai, Asst. Geologist, Dept. of Mining & Geology, Kollam

Signed by:

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

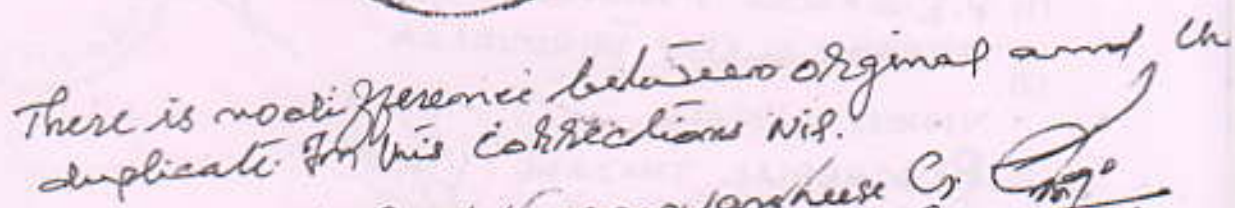
- (1) P.E. EASOW, PALAKKAMANNIL
- (2) THEODICAL (PO) THIRUVALLA
- VINOD V. NAIR
- PLACHERIAL THAZANE
- THIRUVALLA

This is computer print out.

Correction : Nil.



തയ്ക്ക: 29.6.2004.

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duplicate of this Certificate is
 Compared by Reader George Langhese C. ^{Page}
 by Examiner C. R. Ragan _{re}

2004/2004/1

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ANNEXURE NO. 3



FORM - 'H'
(See Rule 32)
Quarrying Lease

This Indenture made this 11th day of June, 2004 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 M/s. Bhagheeratha Energy Controls Ltd, Dr. MKK Nair Road, Vazhakkala, Kakkanad, Ernakulam District represented by Asst. Manager, Shri J George (hereinafter called the "lessee" which expression shall where the context so admits, include their heirs, executors, administrators, representatives and permitted assigns) of the other part.

Witnesseth that in consideration of the rents and royalties and lessee's covenants, hereinafter reserved and contained the State Government doth hereby demise unto the lessees the land measuring 0.4400 hectare described in the schedule herpunder the delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of five (5) years commencing from the 11th day of June, 2004 and ending on the 10th day of June, 2009 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.



SUB TREASURY

09 JULY 2004

KADAMBA

For BHAGHEERATHA ENERGY
CONTROLS LIMITED

- 01 The lessees 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 off the said minerals extracted as aforesaid.
- 02 The lessees 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.
- 03 The lessees shall pay to the State Govt. an yearly surface rent equal to the land revenue if any, assessable under the rules for the time being the force, or if the land be the property of Government or in reserve forest then equal to the land revenue pluses, if any, per hectare of the land the surface whereof shall be occupied or used by the lessees 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.
- 04 The lessees shall at all time during the currency of this demise keep correct and intelligible books of account showing accurately the quantity of the said minerals extracted and the weight and value of the said mineral sold or exported together with the names of the purchasers or consignees. The lessee shall also, maintain a register of employees showing therein separately men, women 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 them to examine the said books of account and the register of employees and to take copies and extracts

11-6-04
GEOLOGIST, KOLLAM



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The lessees shall at the lessee's own expense erect and at all time 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.

No quarrying operations or working shall be carried on or permitted to be carried on by the lessees 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 meters 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 meters 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 a building horizontally from the plinth thereof. In the case of Village roads no workings shall be carried on within a distance of 10 meters 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).

The sides of open workings shall be sloped, stepped or secured by the lessees 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

For **BILAGHEENATHA ENERGY
CONTROLS LIMITED**

material shall be removed by the lessee sufficiently far from the edge or otherwise made source in order to prevent danger to persons employed in the quarry.

- 09 If a working place is found to be unsafe all persons shall be withdrawn by the lessees immediately from the dangerous area and all access to such working place except for the purpose of removing the danger of saving life shall be prevented by securely fencing the full width of all entrances to the place.
- 10 The lessees shall at all reasonable times allow any officer authorized by the Central Government or by the State Government in that behalf to inspect the said lands and the buildings and plants erected thereon and the lessees shall assist such persons in conducting the inspection and afford them all information they may reasonably require, and shall conform to and observe all order 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 lessees shall not assign or underlet the said lands or any part thereof or the rights or privileges, therein hereby granted or any of them without the previous permission in writing of the 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 the time to time, to the quarry.
12. The lease may be surrendered by the lessees at any time after 3 months notice in writing to the competent authority Provided that the lessees have paid all sums due on account of the lease. Provided further that if the lessees elect to determine this lease before the expiry of the term of the lease, shall pay in addition to other dues a sum equal to the dead rent payable for the remaining part of the terms of the lease deed.

GEOLOGIST, KOLLAM

6-07




For BHAGHEERATHA ENERGY
CONTROLS LIMITED

13 On the expiration of the term of this lease or on its earlier determination under clause 12 the lessees 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 capitalized 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 lessees shall be desirous of taking a further lease of the said lands for a further term of years they shall give three months previous notice in writing of such desire to the competent authority and if the lessees have 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.

15 If the lessees shall at any time during the said term use the said lands or any part thereof in any manner other than an authorized 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 in the alternative to receive from the lessees such penalty for the breach not exceeding five times the amount of the said yearly dead rent as the competent authority may fix.

the lease or its sooner determination, there shall remain in or upon the said lands, any engines, machinery, plant buildings, structures and other works erections and conveniences the said minerals or other property which the lessees is entitled to remove from the said lands, the same shall, if not removed by the lessees within one calendar month after notice in writing requiring their removal be given to the lessees 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 lessees in respect thereof.


GEOLOGIST, KOLAR G.O.A.




For BILAGHEERATHA ENERGY
CONTROLS LIMITED

- 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 the safety, health and convenience of the lessees employees or of the public, whether under the Indian Mines Act or otherwise.
- 18 The lessees shall without delay send to the District Collector and the competent authority or the officer authorized by him in this regard report of any accident causing loss of life or serious bodily injuries or seriously affecting or endangering life or property which may at any time occur at or in the said lands in the course of operations under this lease.
- 19 The lessees shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may prescribe.
- 20 The lessees 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 them in exercise of the powers granted by this lease and shall indemnify and shall keep indemnified fully and completely the State Government against all claims which may be made by any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith.
- 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 lessees shall be treated as binding on the lessees. In this case anticipated royalty for the rate of Rs.16/- (Rupees Sixteen only) per tone for a period of one year Rs.80,000/- (Rupees Eighty Thousand only).
- 22 Dead rent realizable at the rate of Rs.3200/- (Rupees Three thousand and two hundred only) per hectare subject to revision from time to time. Surface rent at the rate of Rs.100/- (Rupees One hundred only) per hectare for one year is Rs.44/- (Rupees forty four only). Security deposit is Rs.1000/- (Rupees One thousand only).

The schedule above referred to description of Land.


11.6.04
TECHNICAL





For BHAGHEERATHA ENERGY
CONTROLS LIMITED

District Taluk	Village or Armsom	Survey No. Of the area	Area in Hectares
Kollam Kottarakkara	Elamad	120/1 of Block No 27	0.4400

Bounded by
Sy. Nos.


On the North by	121
On the East by	120
On the south by	120
On the West by	119, 120



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

Signed by:  11.6.05.
GEOLOGIST, KOLLAM. C.K. BAISUV


For and on behalf of the Governor of Kerala


In the presence of:

(1) Dr. H.M. SABEEN, Asst. Geologist.
Dept. of Mining & Geology, Dist. Office, Kollam. 

(2) S.R. Dohman Pillai, U.O. Dept of Mining & Geology, Dist. Office, Kollam. 
Signed by: 

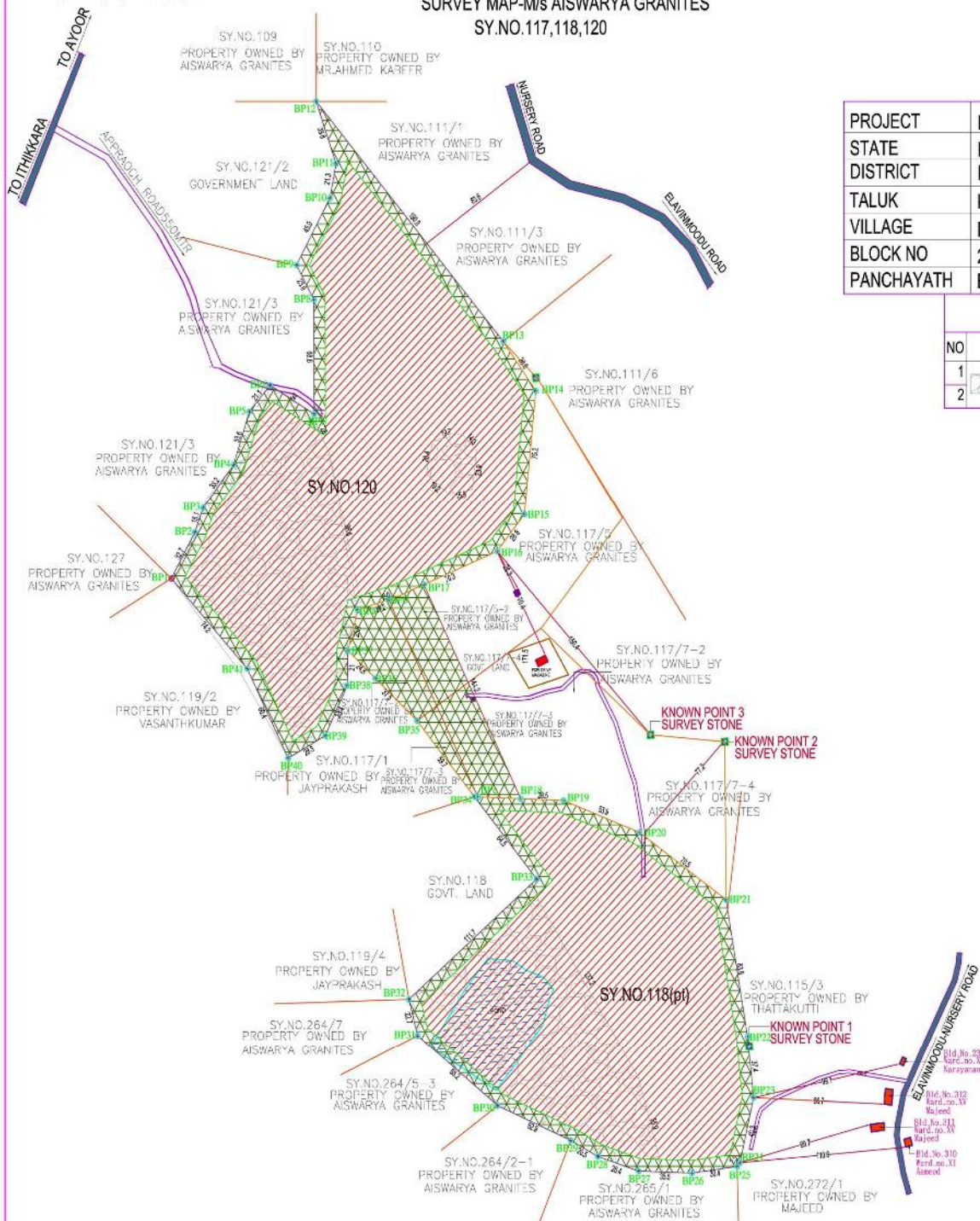
For and on behalf of the lessee/lessees: BHAGHEERATHA ENERGY CONTROLS LIMITED

(1) SIVAKUMAR P.R.
PATI-BEL JV
PATTOM, CHADAYAMANGALAM 

(2) K.M. Malhe
PATI-BEL JV
CHADAYAMANGALAM 



ANNEXURE NO. 4

SURVEY MAP-M/s AISWARYA GRANITES
SY.NO.117,118,120

PROJECT	M/s AISWARYA GRANITES
STATE	KERALA
DISTRICT	KOLLAM
TALUK	KOTTARAKARA
VILLAGE	ELAMAD
BLOCK NO	27
PANCHAYATH	ELAMAD

MINED OUT AREA

NO	SY.NO	MINED OUT QTY.	AREA (Ha)
1	118	7,33,781 MT	1.4493
2	120	4,68,077 MT	1.7505

BOUNDARY PILLARS WITH
GPS COORDINATES

POINT NO	Degree, Minute Second	
	Latitude	Longitude
BP1	08°52'46.54"N	76°49'42.98"E
BP2	08°52'47.44"N	76°49'43.49"E
BP3	08°52'47.92"N	76°49'43.67"E
BP4	08°52'48.77"N	76°49'44.34"E
BP5	08°52'49.81"N	76°49'44.69"E
BP6	08°52'50.33"N	76°49'45.14"E
BP7	08°52'49.76"N	76°49'46.10"E
BP8	08°52'52.00"N	76°49'46.11"E
BP9	08°52'52.69"N	76°49'45.73"E
BP10	08°52'53.99"N	76°49'46.46"E
BP11	08°52'54.67"N	76°49'46.60"E
BP12	08°52'55.89"N	76°49'46.17"E
BP13	08°52'51.17"N	76°49'50.22"E
BP14	08°52'50.19"N	76°49'50.93"E
BP15	08°52'47.76"N	76°49'50.67"E
BP16	08°52'47.04"N	76°49'50.07"E
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BP18	08°52'42.18"N	76°49'50.56"E
BP19	08°52'42.14"N	76°49'51.49"E
BP20	08°52'41.51"N	76°49'53.14"E
BP21	08°52'40.18"N	76°49'55.02"E
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BP23	08°52'36.28"N	76°49'55.60"E
BP24	08°52'35.00"N	76°49'55.30"E
BP25	08°52'34.93"N	76°49'55.23"E
BP26	08°52'34.81"N	76°49'54.25"E
BP27	08°52'34.85"N	76°49'53.09"E
BP28	08°52'35.14"N	76°49'52.20"E
BP29	08°52'35.46"N	76°49'51.61"E
BP30	08°52'36.15"N	76°49'50.03"E
BP31	08°52'37.54"N	76°49'48.29"E
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BP34	08°52'42.22"N	76°49'49.55"E
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BP41	08°52'44.76"N	76°49'44.62"E
BP4a	08°52'45.90"N	76°49'47.02"E
BP4b	08°52'46.10"N	76°49'47.70"E
BP4c	08°52'42.22"N	76°49'49.63"E

PROPERTY DETAILS

No	SY.NO	TOTAL AREA IN POSSESSION(Ha)	MINING AREA(Ha)	BUFFER AREA(Ha)	APPLIED AREA(Ha)	BALANCE AREA(Ha)	OWNERSHIP DETAILS	DOC.NO.
1	118(Pt)	3.4683	2.9420	0.5263	3.4683	0.0000	GOVT.NOC.,AISWARYA GRANITES	48512/2017
2	117/7-2	0.3888	0.0000	0.2004	0.2004	0.1884	AISWARYA GRANITES	971/2008
3	117/7-3	0.3888	0.0000	0.0358	0.0358	0.3530	AISWARYA GRANITES	971/2008
4	117/5-2	0.4405	0.0000	0.0098	0.0098	0.4307	AISWARYA GRANITES	409/2008
5	120	4.3420	3.6000	0.7420	4.3420	0.0000	GOVT.NOC.,AISWARYA GRANITES	48513/2017
TOTAL		9.0284	6.5420	1.5143	8.0563	0.9721		

SUBMITTED BEFORE
DEPT OF MINING & GEOLOGY

ALL DIMENSIONS ARE IN METRES

LEGENDS

	PROPOSED MINING AREA		PROPOSED MINE BOUNDARY		MINED OUT AREA
	BUFFER AREA		APPLIED AREA BOUNDARY		FMB LINES
	PRIVATE ROADS		SURVEYED BOUNDARY		SURVEY STONE
	OWN BUILDING		PUBLIC ROADS		OWN PROPERTY BOUNDARY
			OTHER BUILDING		

	KNOWN POINT 1
	KNOWN POINT 2
	KNOWN POINT 3

Scale -1:2000
(A2 PAPER)

Date : 06.02.2018

Project. GS 6063

VILLAGE OFFICE
ELAMAD



ANILKUMAR. B
TAHSILDAR
KOTTARAKARA

ANNEXURE NO. 5

**DEPARTMENT OF MINING & GEOLOGY,
DISTRICT OFFICE, KOLLAM,**

Ph: 0474-2749044

e-mail : geo.kol.dmg@kerala.gov.in

web: www.dmg.kerala.gov.in

No.540/DOQ/S2/2018

Date: 01-06-2018

From

Geologist
Kollam District

To

M/s.Aswarya Granites
Managing Partner, Shri.A.M.Chackochan.
Arkkannoor.P.O
Elavinmoodu

CERTIFICATE

This is to certify that M/s. Aiswarya Granites is currently not doing any quarrying operations in Government land comprised in survey No. 120 & 118 of Elamad village, Elamadu Panchayath, Kottarakkara Taluk, Kollam District, Kerala State.


GEOLOGIST

This certificate is issued to produce before the MoEF.



ANNEXURE NO. 6

DEPARTMENT OF MINING & GEOLOGY,
DISTRICT OFFICE, KOLLAM,
Ph: 0474-2749044
e-mail : geo.kol.dmg@kerala.gov.in
Date: 21-04-2018

No.1314/DOQ/S2/2018

From

Geologist
Kollam District

To

M/s.Aswarya Granites
Elavinmoodu
Arkkannoor
Managing Partner, Shri.A.M.Chackochan.

Sir,

Sub:- Approval of eco friendly mining plan- Granite building stone quarry in survey numbers 118pt, 117/7-2, 117/7-3, 117/5-2, 120 of Elamadu Village Kottarakkara Taluk, Kollam District, Kerala.

Ref: - Your application dated 08 /03/2018.

In the mining plan submitted by you for the Granite Building Stone quarry project in survey numbers 118pt, 117/7-2, 117/7-3, 117/5-2, 120 of Elamadu Village Kottarakkara Taluk, Kollam District, Kerala, for a total mining area of 8.0563 Hectares, the production proposal for the first year alone is approved as per provisions of the Kerala Minor Mineral Concession Rules, 2015, with the following conditions:-

1. That you will follow the prescribed Rules and Regulations of Central Government and State Government issued from time to time in regard to mining.
2. That you will follow the Mine Safety Rules & Regulations.
3. That you will store the mining waste in the earmarked location/dumping yard only as specified in the plan.
4. That you will carry out mining and reclamation of the land as committed in the mining plan.
5. That provision shall be made for housing facility for the labourers with all basic infrastructure facilities including safe drinking water, toilets etc. within the site.



Yours faithfully


Geologist

MINING PLAN

WITH PROGRESSIVE MINE CLOSURE PLAN

(Submitted under Rule 66 of Kerala Minor Mineral Concession Rules, 2015)

"GRANITE BUILDING STONE QUARRY MINING PROJECT"

VILLAGE : ELAMAD
TALUK : KOTTARAKARA
DISTRICT : KOLLAM
MINERAL : GRANITE BUILDING STONE
MINE ELIGIBLE AREA (A) : 6.5420 HECT. (NON FOREST AREA)
TOTAL AREA UNDER BUFFER
{AS PER REGULATION NO.
111 (2) OF METALLIFEROUS
MINES REGULATIONS,
1961 (7.5 M) (B)} : 1.5143 HECT.
TOTAL AREA FOR E.C.
(C = A+B) : 8.0563 HECT
LAND STATUS : Private own land - 0.246 ha. + Govt. Land - 7.8103 ha.
SURVEY Nos. : 118 (pt.), 117/7-2, 117/7-3, 117/5-2, 120 ✓
METHOD OF MINING : OPEN-CAST SEMI MECHANIZED



APPLICANT

M/s AISWARYA GRANITES
Mr. A.M. Chackochan, Managing Director
Elavinmoodu, Arkkanoor P.O.
Kollam, Kerala-691533.
Mobile No. 09645989915
E-mail :- aiswaryagranites@gmail.com

*Forest gear production
proposal for this mine
plan is approved
21/4/18*

PREPARED BY

M/S. ENVIRONMENTAL ENGINEERS & CONSULTANTS PVT. LTD.	
KEY PERSON	NABET, QCI approved Team member
MUKESH SUROLIYA RQP/AJM/321/2010/A <u>Home address</u> -5A/6, Vijay Bari, Dher Ka Balaji, Sikar Road, Jaipur (Raj.)-302023. Mob.No. 9269028299, E-mail mukeshsuroliya@yahoo.co.in	P. Z. Thomas & Jomon M.C. <u>B.O. Address</u> -Apartment No. 306, Kanchanjunga, Apartments, Palarivattom, Kochi, Ernakulam, Kerala-682025. Ph. 0484-4034320. Email eecnewdelhi@gmail.com

M/s AISWARYA GRANITES
Elavinmoodu, Arkkanoor P.O.,
Kollam, Kerala-691533.
Mobile No. 09645989915
E-mail :- aiswaryagranites@gmail.com

AUTHORISATION LETTER BY THE LESSEE

I, A.M. Chackochan (Managing Partner), hereby authorise Mukesh Suroliya RQP No- RQP/AJM/321/2010/A to prepare the Mining Plan Including PMCP under Kerala Minor Mineral Concession Rules, 2015 in respect of Granite building Stone Quarry Mine, over an area of 8.0563 hect. for mineral- granite building Stone Quarry in Village- Elamad, Taluk- Kottarakara, District- Kollam, State- Kerala.

I request to the District Geologist, Department of Mines & Geology, Kerala to make further correspondence regarding modification / withdrawal / re-submission and to collect the approved copies of the aforesaid Mining Plan with PMCP with the said recognized person on his following address:

Name of RQP- Mukesh Suroliya

Reg.No. RQP/AJM/321/2010/A

Validity 28 Sep. 2020

Address of RQP: -

5A/6, Vijay Bari, Dher Ka Balaji,

Sikar Road, Jaipur-302023. (Rajasthan)

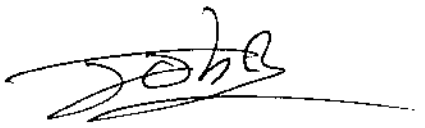
Mobile No.-+91-9269028299

Email: - mukeshsuroliya@yahoo.co.in



Place: Kollam

Date: 27-03-2018


(A.M. Chackochan)
Managing Partner

MUKESH SURALIYA
RQP/AJM/321/2010/A
5A/6, Vijay Bari, Dher Ka Balaji, Sikar Road, Jaipur-302023.
Mob. No. 9269028299
E-mail id: mukeshsuraliya@yahoo.co.in

CERTIFICATE

I Mukesh Suraliya hereby certify that:

1. The provisions of Kerala Minor Mineral Concession Rules, 2015 have been observed in the Mining Plan including Progressive Mine Closure Plan for granite building Stone Quarry mine, over an area of 8.0583 hect. for mineral- granite building Stone Quarry in village - Elamad, Taluk - Kottarakkara, District - Kollam, State- Kerala belonging to M/s. Abhaya Granite and wherever specific permission is required, the Lessee will approach the concerned authorities of Department of Mines & Geology for granting the permission.
2. It is also certified that the provisions of Mines Act, Rules and Regulations have been observed in the aforesaid Mining Plan including PMCP and wherever specific permissions are required, the Lessee will approach the Director General of Mines Safety.
3. It is further certified that the aforesaid Mining Plan including PMCP is prepared as per the copies of the records and documents provided by the lessee and information given as per discussions held with the lessee.
4. It is also certified that the information's furnished in the aforesaid Mining Plan including PMCP are true and correct to the best of my knowledge & belief and in case of default, the approval would be withdrawn.



Place: Jaipur
Date : 27-03-2018

MUKESH SURALIYA
RQP/AJM/321/2010/A
Valid upto: 28-09-2020

Mukesh Suraliya
RQP/AJM/321/2010/A
Validity: 28 Sep 2020

M/s AISWARYA GRANITES
Elavinmoodu, Arkkanoor P.O.,
Kollam, Kerala-691533.
Mobile No. 09645989915
E-mail :- aiswaryagranites@gmail.com

CERTIFICATE

1. It is certified that the provisions of Mines Act, Rules and Regulations made there under have been observed in the Mining Plan Including Progressive Mine Closure Plan for granite building Stone Quarry Mine, over an area of 8.0563 hect for minerals granite building Stone Quarry in village - Elamad, Taluk- Kottarakara, District- Kollam, State- Kerala belonging to M/s Aiswarya Granites and wherever specific permissions are required, the lessee will approach the Director General of Mines Safety Further, the standards as prescribed by DGMS in respect of miner's health will be strictly implemented.
2. The Progressive Mine Closure Plan for granite building Stone Quarry mine over an area of 8.0563 hect. for mineral granite building Stone Quarry in village-Elamad, Taluk- Kottarakara, District- Kollam, State- Kerala belonging to M/s Aiswarya Granites complies all the statutory Rules, Regulations, Orders made by the Central Government or State Government, Statutory organizations, Court etc. and have been taken into consideration, Wherever any specific permission is required, the Lessee will approach the concerned authorities.



Place: Kollam

Date: 27-03-2018


(A.M. Chackochan)

Managing Partner

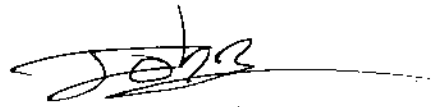
M/s AISWARYA GRANITES
Elavinmoodu, Arkkanoor P.O.,
Kollam, Kerala-691533.
Mobile No. 09645989915
E-mail :- aiswaryagranites@gmail.com

DECLARATION

1. The Mining Plan including Progressive Mine Closure Plan for granite building Stone Quarry mine over an area of 8.0563 hect. for mineral granite building Stone Quarry in village - Elamad , Taluk- Kottarakara, District- Kollam, State- Kerala belonging to M/s Aiswarya Granites has been prepared in full consultation with me and I understand its contents and agree to implement the same in accordance with law and in case of default the approval would be withdrawn.
2. It is further declared that during the pendency period of the approval of above said document or thereafter if any change occurs in the name and address of lessee, it will be informed promptly.



Place: Kollam
Date: 27-03-2018


(A.M. Chackochan)
Managing Partner

M/S AISWARYA GRANITES
Elavinmoodu, Arkkanoor P.O.,
Kollam, Kerala-691533.
Mobile No. 09645989915
E-mail :- aiswaryagranites@gmail.com

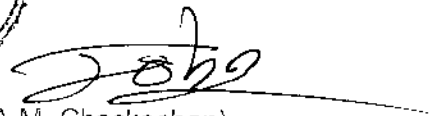
UNDERTAKING

1. I, A.M. Chackochan (Managing Partner) for granite building Stone Quarry mine over an area of 8.0563 hect for mineral granite building Stone Quarry in village - Elamad , Taluk- Kottarakara, District- Kollam, State- Kerala belonging to M/s Aiswarya Granites, hereby undertake that all the commitments so made in the aforesaid Mining Plan with PMCP by the RQP Mr. Mukesh Suroliya to be deemed to have been made with my knowledge and consent and as such shall be acceptable to me and binding on me in all respects.
2. I, A.M. Chackochan (Managing Partner) for granite building Stone Quarry mine over an area of 8.0563 hect for mineral granite building Stone Quarry in village-Elamad, Taluk- Kottarakara, District- Kollam, State- Kerala belonging to M/s Aiswarya Granites, hereby also undertake that all the measures proposed in this Progressive Mine Closure Plan will be implemented in a time bound manner from the date of approval of this PMCP as proposed.



Place: Kollam

Date: 27-03-2018


(A.M. Chackochan)
Managing Partner



LIST OF TEXT & TABLES

Text & Table No.	Title	Details given
1.	Employment details	Sr. no.-15 a ,b,&c
2.	Extent of mechanization including the list of quarrying machinery deployed in the quarry and their efficiency and other details	Sr. no. 10 b
3.	Location and accessibility (Location map)	Sr. no. 2
4.	Toposheet number and latitude and longitude boundary of the mine area	Sr. no. 2
5.	Present land use patter (table)	Sr. no. 2
6.	Geology, exploration and reserve: with details of topography, general geology, location mine geology of mineral deposit including drainage pattern. Reserve estimation (table) by standard procedure for the entire mine hold. Methods for developing or working the deposit with all designed parameters.	Sr. no. 9
7.	Drilling, blasting, excavation & transportation	Sr. no. 10 c & Sr. no. 10 g
8.	Safety and precaution	Sr. no. 10 j
9.	Mineral processing and beneficiation: also specify the quantity and type of chemicals to be stored in the quarry site or plant.	Sr. no. 13
10.	Environmental Management Plan	Sr. no. 18
11.	Environment impact assessment	Sr. no. 18
12.	Flow chart	Sr. no. 13
13.	Social economic benefits arising out of quarry	Sr. no. 18
14.	Progressive mine closure plan	Sr. no. 19

LIST OF MAPS

Plate No.	Title	Scale
1	Location Map (Vicinity map)	Not To Scale
2	Topographical contour map at 5 m. intervals with Plot dimensions	1:2500
3	Surface cum Geological plan and Cross Sections	1:2500
4	Production & Development Plan with Production Cross Sections	1:3000
5	Year wise tentative excavation plan	1:2000
6	Reclamation plan & Sections	1:3000
7	Environmental Plan	1:4500
8	Conceptual Plan (Post Mine Closure Plan) & Sections	1:3000
9	Surface Runoff Map (Drainage Plan)	1:2000



LIST OF ANNEXURES

Sr.No.		Annexure No.
1	Photo ID of lessee	1
2	R.Q.P. Certificate	2
3	Copy of LOI	3
4	Cadastral map (or Block Map) duly signed by Village Officer marked with plot boundary	4
5	Area Survey Plan marked with Plot dimensions, Survey Numbers & Area duly approved by the Village Officer	5
6	Baseline data report from accredited laboratory	6
7	Copy of accreditation certificate of the lab	7
8	Copy of NOC form collector for the Government land	8
9	Copy of ownership of land documents	9
10	Copy of Partnership deed	10
11	Copy of PAN card of the company	11
12	CSR study report	12



Sr.
No.

TEXT & TABLES

1. **Name & Address of the Lessee**
Mr. A.M. Chackochan, Managing Partner
M/s Aiswarya Granites
Elavinmoodu, Arkkanoor P.O.,
Kollam, Kerala-691533.
Mobile No. 09645989915
E-mail :- aishwaryagranites@gmail.com
Photo ID of lessee enclosed as an **Annexure No.-1.**
2. **Particulars of the Area (Acreage, Boundary Description & Land Schedule). (Attach location map and surface plans showing the existing features of the area with contours at 5 m. interval)**

The location map of the mine area has been given in Plate No. 1.

The details of the land covered in the mine area are below:

- 1- District : Kollam
- 2- State : Kerala
- 3- Taluka : Kottarakara
- 4- Village : Elamad
- 5- Survey no. : 118 (pt.), 117/7-2, 117/7-3, 117/5-2, 120
- 6- Mine area : 8.0563 hectares
- 7- Whether the area is recorded to be in forest : No
- 8- Ownership/occupancy : Govt. land & Private own land
- 9- Existence of public road/railway line, if any nearby and approximate distance: is as under :-

Following infrastructure facilities are available in mine area:-

	Name of	Dist. From mine site in km.	Direction
Railway Station	Kottarakkara	23 km.	N
Nearest town	Ayoor	6.5 km.	NE
Nearest highway	N.H.66	16 km.	SW
Airport	Trivandrum Int. Airport	60 km.	S
Panchayat Office	Elamad	3 km.	N
Fire Station	Kadakkal	20 km.	SE
Ambulance	Karinganoor	7 km.	W
Police Station	Chadayamangalam	10 km.	SE



School	S.H. School, Cheriavellinellore	2 km.	W
Dispensary	Minar Mission Hospital	2.5 km.,	E
Water supply	Pond & well water	Near to the quarry	

The mine area is located in the Toposheet no.- 58D/13 and the geographical location of the mine with respect to the pillar boundary of the mine area is given below:-

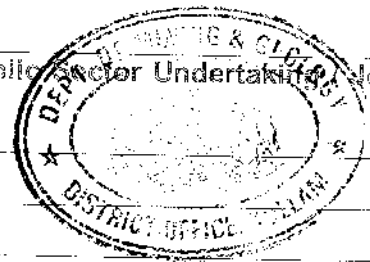
POINT NO	Degree, Minute Second	
	Latitude	Longitude
BP1	08°52'46.54"N	76°49'42.98"E
BP2	08°52'47.44"N	76°49'43.49"E
BP3	08°52'47.92"N	76°49'43.67"E
BP4	08°52'48.77"N	76°49'44.34"E
BP5	08°52'49.81"N	76°49'44.69"E
BP6	08°52'50.33"N	76°49'45.14"E
BP7	08°52'49.76"N	76°49'46.10"E
BP8	08°52'52.00"N	76°49'46.11"E
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BP10	08°52'53.99"N	76°49'46.46"E
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BP40	08°52'43.00"N	76°49'45.50"E
BP41	08°52'44.76"N	76°49'44.62"E
BP4a	08°52'45.90"N	76°49'47.02"E
BP4b	08°52'46.10"N	76°49'47.70"E
BP4c	08°52'42.22"N	76°49'49.63"E

The general location, Contour Map and surface cum Geological Plan with Section Map have been shown in Plate No. 1., 2 & 3.

Present Land use pattern:

S. No.	Particulars	Present Area (in Ha.)
1.	Pits	2.8239
2.	Road	0.0461
3.	Drainage / Pond	0.3759
4.	Buildup Area	Nil
5.	Non-mineable area	4.8104
Total		8.0563



3. **Status of the Lessee (Private Individual / Private Company / Public Sector Undertaking / Joint Sector Undertaking / Others)**

Partnership firm

4. **Period of the concession (if applicable)**

12 years

5. **Mineral intended to be won**

Granite Building Stone (granite/charnockite Minor Minerals)

6. **Name, address & registration no. of RQP preparing the mining plan with validity of Recognition.**

Name	Mukesh Suroliya
Address	5A/6, Vajay Bari, Dhar Ka Balaji, Jaipur-23
Phone	09269028299
E-mail	mukeshsuroliya@yahoo.co.in
Registration No.	RQP/AJM/321/2010/A
Date of grant	29.09.2010
Valid Up to	28.09.2020
The copy of the RQP certificate is attached at Annexure No.-2	

7. **Order No. & date of competent authority granting the concession (copy of the order to be attached) (if applicable)**

The copy of the LOI issued by the Mining & Geology Department is attached at Annexure No.-3.

8. **If, forest area, whether forest clearance obtained; (attached copy of forest clearance)**

NA

Reserves (Estimation to be based on the exploration, if any, carried out in the area or on the local parameters)

GEOLOGY AND EXPLORATION

TOPOGRAPHY

Part of the proposal land is an existing old mine for mining and there is no vegetation in that and remaining land is covered with native tree species, shrubs, herbs, grass, climbers, bushes etc. The highest elevation of the mine area is 115 m. MSL and lowest is 50 m MSL. As the proposed area is hilly, the drainage of the mine area is towards NW to SE. No habitants are located in the mine area.

REGIONAL GEOLOGY

The district can be broadly divided into three geological provinces – the westernmost Quaternary alluvial deposits followed by a narrow N-S zone of late Tertiary sediments and the easternmost



Precambrian metamorphic.

The Precambrian metamorphic are represented by Khondalite, Charnockite and Migmatite groups. They are intruded by younger basic dykes and overlain by Tertiary and Quaternary sediments.

High grade metamorphic rocks of Khondalite Group include calc-granulite, quartzite and garnet-biotite-sillimanite gneiss with or without graphite. Thin lenticular bands of calc-granulite occur within charnockite and migmatite. The Khondalite paragneiss tends to occur as linear bodies towards the middle and western part of the district. The Charnockite Group consists of pyroxene granulite, cordierite gneiss and hypersthene-hornblende granite gneiss (charnockite). It mostly occurs as concordant bands and lenses of varied dimensions in Khondalite and migmatite with a diffused contact. It grades into gneiss. Generally, it is garnetiferous near the contact with the gneiss. The rock shows granoblastic texture and is mostly intermediate to acidic. Pyroxene granulite occurs as thin, discordant, lenticular patches, within migmatite, and is concordant with the para gneiss. Cordierite gneiss is found as impersistent bands and lenses within garnet-biotite gneiss and is confined to the contact with gneiss and charnockite. It displays xenoblastic gneissose texture and consists of varying proportions of cordierite, plagioclase, microperthite, quartz, biotite, hypersthene, garnet and hornblende. Near Punalur, there is a small body of dunite. The Migmatite Complex comprising garnet-biotite gneiss and quartzo-feldspathic gneiss are the major rock units of the area and they are traversed by the pegmatite and aplite veins. The rocks of the Migmatite Complex are widely distributed and interlayered with rocks of Charnockite Group. Garnet-biotite gneiss has a larger areal distribution and is characterised by the presence of biotite foliae and concentration of garnet in layers. Bands and lenses of quartzo-feldspathic gneiss occur within it. Granite gneiss of Peninsular Gneissic Complex occurs as small lenses towards the east. All the older rocks are intruded by basic intrusive of doleritic composition having a general NW-SE trend. Towards west, the rocks of Archaean age are unconformably overlain by sedimentary rocks of Mio-Pliocene age. Two distinct sequence of sediments are noticeable. A lower marine sequence (Quilon Formation) represented by fossiliferous limestone and marl and an upper non-marine sequence of alternating beds of sandstone and clay, with carbonaceous clay and lignite seams towards the bottom (Warkalli Formation). These beds are horizontally disposed and lateritised at the top. The midland portion representing the Tertiary sedimentary terrain and the western part of the Archaean terrain is extensively lateritised and the laterite is 5 to 10m thick.

Source :- District Survey Report, Kollam prepared by Dept. of Mining and Geology Kerala.



LOCAL GEOLOGY

The local geology belongs to the regional geology. Main rock type in the study area is granite building stone. At places where they are exposed, the granite building stone is medium to coarse grained with dark grey quartz. The soil & over burden thickness is varies from avg. 2 m. to 1 m. Topographically, the area is undulating.

GENERAL DESCRIPTION OF FORMATIONS:-

The details of the pits observed to estimate the top soil and overburden from the proposed area is given below:-

Particulars	Pit - 1
Top soil (thickness in m.)	2
Over burden (thickness in m.)	1

GEOLOGICAL SECTION:

Geological cross sections have been drawn at fixed intervals across the mine area in Plate No. 3. The section line along which the geological sections have been prepared has been shown in Plate No. 3. The Sections has been drawn across the strike of the host rock.

DETAILS OF EXPLORATION:-

The surrounding area is already explored; the excavated pit give the idea of minerals depth. So no further exploration is required and proposed in this mining plan.

The details of pits such as already made in/outside, which have been shown in Surface cum Geological plan/Environment Plan.

METHOD OF ESTIMATION OF RESERVES:-

The following points have been considered while calculating the reserves of stone.

The reserves of minerals have been estimated by using the method of preparation of sections and applying the influence of such sections to limited distance and multiplying it by width.

Based on the actual geological mapping and cross section preparation, the proved reserve has been taken .

The specific gravity of minerals has been taken as 2.5 i.e. 1 m³ of mineral in situ = 2.5 tonne



Note:- On the field visit, sample collected and analyzed and result are obtained, the sp. Gravity of minerals is 2.5.

RESERVES OF MINERALS

The reserves of minerals have been calculated and the geological and mineable reserves have been given in table no. 9.1.

SUMMARY OF GEOLOGICAL & MINEABLE RESERVES

In this area the building stone exposures are bordering to the mine boundary. The mineable reserves are arrived after deducting the reserves locked in mines safety slope along with boundary in compliance with mineral concession rules. The quantity of such kind of reserves is arrived as following:-

Table 9.1 – Mineable Reserves Estimation

BLOCKED RESERVES					MINEABLE RESERVES				
SECTION A-A'									
BENCH	M2	M	DENSITY	TON	BENCH	M2	M	DENSITY	TON
100	56	76	2.5	10640	100	3	68.5	2.5	513.75
95	94	76	2.5	17860	95	33	63.5	2.5	5238.75
90	119	76	2.5	22610	90	259	58.5	2.5	37878.75
85	229	76	2.5	43510	85	480	53.5	2.5	64200
80	318	76	2.5	60420	80	391	48.5	2.5	47408.75
75	384	76	2.5	72960	75	325	43.5	2.5	35343.75
70	439	76	2.5	83410	70	270	38.5	2.5	25987.5
65	493	76	2.5	93670	65	216	33.5	2.5	18090
60	548	76	2.5	104120	60	161	28.5	2.5	11471.25
SUB TOTAL				509200	SUB TOTAL				246132.5
BLOCKED RESERVES					MINEABLE RESERVES				
SECTION B-B'									
BENCH	M2	M	DENSITY	TON	BENCH	M2	M	DENSITY	TON
105	25	58	2.5	3625	105	27	58	2.5	3915
100	70	58	2.5	10150	100	101	58	2.5	14645
95	168	58	2.5	24360	95	334	58	2.5	48430

90	225	58	2.5	32625	90	471	58	2.5	68295
85	281	58	2.5	40745	85	415	58	2.5	60135
80	338	58	2.5	49010	80	358	58	2.5	59210
75	394	58	2.5	57130	75	302	58	2.5	43790
70	451	58	2.5	65395	70	245	58	2.5	35525
65	508	58	2.5	73660	65	188	58	2.5	27260
60	562	58	2.5	81490	60	134	58	2.5	19430
SUB TOTAL				438190	SUB TOTAL				373375

BLOCKED RESERVES

MINEABLE RESERVES

SECTION C-C'

BENCH	M2	M	DENSITY	TON	BENCH	M2	M	DENSITY	TON
90	92	60	2.5	13800	90	305	60	2.5	45750
85	196	60	2.5	29400	85	694	60	2.5	104100
80	293	60	2.5	43950	80	597	60	2.5	89550
75	377	60	2.5	56550	75	513	60	2.5	76950
70	448	60	2.5	67200	70	442	60	2.5	66300
65	511	60	2.5	76650	65	379	60	2.5	56850
60	575	60	2.5	86250	60	315	60	2.5	47250
55	638	60	2.5	95700	55	252	51	2.5	32130
50	709	60	2.5	106350	50	181	46	2.5	20815
SUB TOTAL				575850	SUB TOTAL				539695

BLOCKED RESERVES

MINEABLE RESERVES

SECTION D-D'

BENCH	M2	M	DENSITY	TON	BENCH	M2	M	DENSITY	TON
90	0	64	2.5	0	90	364	56.5	2.5	51415
85	0	64	2.5	0	85	677	51.5	2.5	87163.75
80	115	64	2.5	18400	80	902	46.5	2.5	104857.5
75	174	64	2.5	27840	75	843	41.5	2.5	87461.25
70	234	64	2.5	37440	70	783	36.5	2.5	71448.75
65	293	64	2.5	46880	65	724	31.5	2.5	57015
60	392	64	2.5	62720	60	625	26.5	2.5	41406.25
55	497	64	2.5	79520	55	520	21.5	2.5	27950
50	685	64	2.5	109600	50	332	16.5	2.5	13695



SUB TOTAL					382400	SUB TOTAL					42412.5
BLOCKED RESERVES						MINEABLE RESERVES					
SECTION E-E'											
BENCH	M2	M	DENSITY	TON		BENCH	M2	M	DENSITY	TON	
70	26	72	2.5	4680		70	205	64.5	2.5	33056.25	
65	62	72	2.5	11160		65	550	59.5	2.5	81812.5	
60	97	72	2.5	17460		60	669	54.5	2.5	91151.25	
55	184	72	2.5	33120		55	635	49.5	2.5	78581.25	
50	331	72	2.5	59580		50	605	44.5	2.5	67306.25	
45	410	72	2.5	73800		45	526	39.5	2.5	51942.5	
40	483	72	2.5	86940		40	453	34.5	2.5	39071.25	
SUB TOTAL					286740	SUB TOTAL					442921.25
BLOCKED RESERVES						MINEABLE RESERVES					
SECTION F-F'											
BENCH	M2	M	DENSITY	TON		BENCH	M2	M	DENSITY	TON	
105	53	36	2.5	4770		105	2	36	2.5	180	
100	85	36	2.5	7650		100	8	36	2.5	720	
95	112	36	2.5	10080		95	17	36	2.5	1530	
90	137	36	2.5	12330		90	27	36	2.5	2430	
85	162	36	2.5	14580		85	264	36	2.5	23760	
80	187	36	2.5	16830		80	543	36	2.5	48870	
75	212	36	2.5	19080		75	576	36	2.5	51840	
70	237	36	2.5	21330		70	596	36	2.5	53640	
65	262	36	2.5	23580		65	616	36	2.5	55440	
60	287	36	2.5	25830		60	641	36	2.5	57690	
55	312	36	2.5	28080		55	667	36	2.5	60030	
50	413	36	2.5	37170		50	641	36	2.5	57690	
45	468	36	2.5	42120		45	586	36	2.5	52740	
40	523	36	2.5	47070		40	531	36	2.5	47790	
SUB TOTAL					310500	SUB TOTAL					514350
BLOCKED RESERVES						MINEABLE RESERVES					
SECTION G-G'											
BENCH	M2	M	DENSITY	TON		BENCH	M2	M	DENSITY	TON	



95	95	57	2.5	13537.5	95	19	49.5	2.5	9281.25
90	128	57	2.5	18240	90	75	49.5		9281.25
85	174	57	2.5	24795	85	114	49.5	2.5	14108
80	202	57	2.5	28785	80	147	49.5	2.5	18191.25
75	237	57	2.5	33772.5	75	347	49.5	2.5	42941.25
70	274	57	2.5	39045	70	398	49.5	2.5	49253
65	317	57	2.5	45172.5	65	443	49.5	2.5	54822
60	347	57	2.5	49447.5	60	490	49.5	2.5	60638
55	493	57	2.5	70252.5	55	424	44.5	2.5	47170
50	621	57	2.5	88492.5	50	296	39.5	2.5	29230
45	733	57	2.5	104452.5	45	184	34.9	2.5	16054
40	830	57	2.5	118275	40	87	29.5	2.5	6416.25
SUB TOTAL				634267.5	SUB TOTAL				350456
TOTAL				3137148	TOTAL				3009342
EXTRA BLOCKED MINERAL				803696	EXTRA BLOCKED MINERAL				0
GRAND TOTAL				3940844	GRAND TOTAL				3009342

Summarized Reserves (in MT)	
Geological reserve (A)	8152044
Mineral reserve blocked in 7.5 m Buffer zone (B)	728060
Mineral reserve blocked in Benches (C)	2409088
Mined out quantity	1201858
Extra mineral blocked (E)	803696
Mineral reserve = A- B + C+ D+E	3009342

10.

Mining:

a. Whether manual or semi-mechanized or mechanized

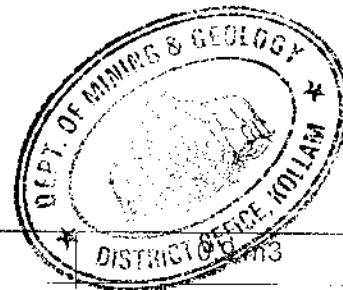
semi-mechanized

b. If semi-mechanized or mechanized, number, type and capacity of machines to be used.

M/c will be deployed as per requirement to meet production target. Brief details of machinery are as follows :-

(i) Drilling & Machines

Sr. No.	Machine Type	Required No. of M/c	Size/Capacity
---------	--------------	---------------------	---------------



1.	Back Hoe	2	
2.	Rock Breaker	2	
3.	Compressor (Chicago)	2	CFM/100
4.	Tippers/Trucks	5	15T
5.	Jack hammer	10	32 mm
6.	DG set (2 nos. x 365 kVA)	2	-

(ii) Loading Equipment

Mechanical loading equipment such as shovel and excavators will be used for removal and loading of the mineral at face and stock yard.

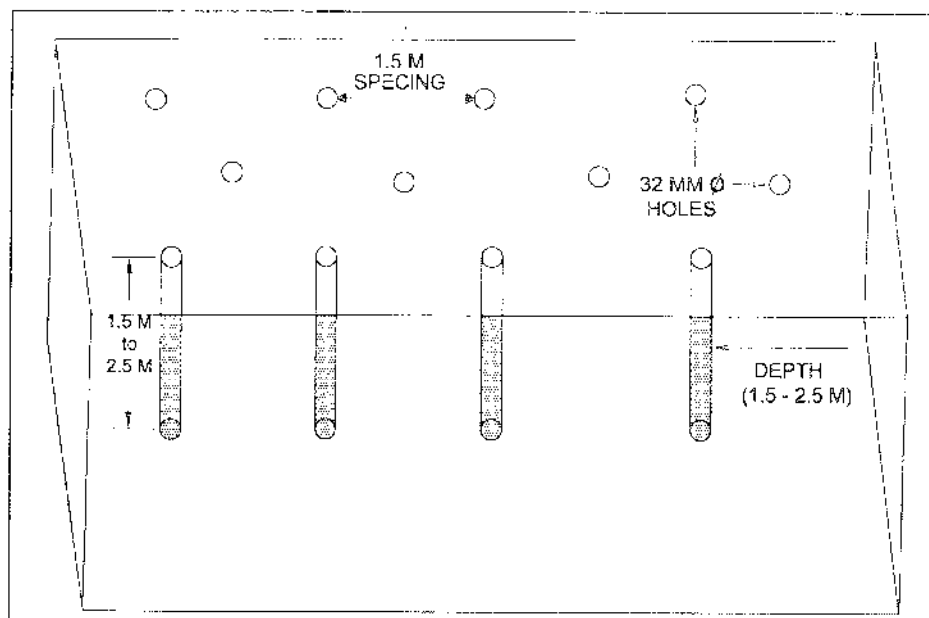
(iii) Haulage and Transport Equipment

a) Haulage within mining mine hold: Loading of Stone will be done with the help of Shovel and Excavators at face and stock yard. Stone gitti are loaded in truck by manually.

b) Transport from Mine head to destination: The truck will be used for transportation of Stone and Stone Ballast from mine site to destination.

c. Whether drilling and blasting will be made use of, if yes, state monthly quantity of explosives to be consumed.

Drilling : The excavation of mineral is proposed by excavators. The mineral is fractured and easily exploitable by rock breakers and excavators. The hard strata are proposed to excavate after drilling and blasting. The cross-sectional view of drilling operations is shown below:-



Blasting: The controlled blasting is proposed by adopting all the safety measures as per "MMR 1961"



and with the permission of DGMS. In this area for fragmentation of stone blasting will be conducted. Multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity.

It is estimated about 250g of explosives per hole is required. About 119-120 holes per blast are proposed. Therefore, the requirement of explosives will be about 30 kg/ blast/day.

d. Benching pattern (height & width).

The height of bench (5 m.) will not be kept more than 5.0m at a time and the width of the benches (5 m.) will be always kept safe according to provisions.

e. Face lay out (attached development plan).

Production & Development Plan with Cross Sections enclosed plate no.-4.

f. Quarry floor level (RL) at the end of the year or period of the concession

The proposed mining activity for next five year will reached up to 60 m RL and in the conceptual stage will be reached up to 40 m. RL. It is expected that mining will not intersect the water table in the area. Therefore, water quality will remain unchanged. No ground water management is required.

g. Quantity of mineral to be won (Annual level of Production)

Excavation :

The proposed method of mining will be Semi mechanized open cast mining. The basic mining techniques adopted will be uses of machines. For the systematic working of open cast mines, the main development work will be the forming of systematic benching. The height of bench (5 m.) will not be kept more than 5.0m at a time and the width of the benches (5 m.) will be always kept safe according to provisions. The Mining will be done with the help of tools such as drills, jack-hammer, compressors, hand shovel, picks, excavators etc. The targeted annual production of Stone is about 5,01,557 MTA.

Table : Year wise production of building stone for life of mine

Year	Bench	Production (MT)
I	110-85	5,01,557
II	85-80	5,01,557
III	80-75	5,01,557
IV	75-65	5,01,557
V	65-60	5,01,557
VI	60-40	5,01,557
Total		30,09,342

Loading and Transportation: Loading of mineral will be done by excavator and will be sent to the crushing unit/destination. Trucks / Tippers of 15T will be used for transportation of mineral from mine



site. It is expected that 111- 112 trips will be required to transport on daily basis. For this movement of truck per hour will be 11-12 only. Thus, the impact due to movement of trucks from the mine will be marginal and well within the capacity of the roads.

h. Quantity of overburden to be removed (Show location of such disposal in development plan)

7.1 Nature and Quality of Top-Soil and overburden to be generated

7.1.1 Top Soil

A total quantity of 96,208 cu.m. of topsoil is proposed to be removed during the mining operations.

Overburden

About 48,104 cu.m. of overburden will be generated throughout the mine life.

i. Whether heavy blasting to be adopted. If yes, location of nearest habitation (to be shown in the surface plan)

No heavy blasting will be adopted. Whereas small scale blasting will be adopted.

Following are the parameters which is used

Depth of Hole – 1.5 m to 2.5 m

Diameter of hole – 32 mm

Spacing -1.0-1.5 m

Sp. Gravity-2.5

Blasting Pattern:

The blasting pattern entirely depends on the situation of the joints present in the rocks. The drilling is done as per the requirement of the rock fragmentation with desired production of mineral.

Type of Explosive to be used

Only class 2 and class 6 explosive is proposed for use as given below:-

Description	Class & division	Qty.
Nitrate mixture	2, 0	400 kg
Safety fuse	6, 1	5,000 mtrs.
Detonator fuse	6, 2	5,000 mtrs.
Detonators (Electric)	6, 3	5000 nos.
Detonators (Ordinary)	6, 3	5000 nos.

j. Safety precautions to be adopted.

PRECAUTIONS:

- Blasting in the open cast pit will be done only during day time at designated hours.
- Only competent blasters will be appointed to handle explosives.



- Explosives will be stored in approved and licensed magazine as per Explosive Act/ Rules.
- Explosives will be brought from magazine to blasting site in licensed Explosive Van under the care of blaster.
- Sufficient warning signals will be given before blasting the holes.
- Guards will be posted on all roads and paths at least 250 m. distance to stop entrance to the danger zone during blasting hour.
- Controlled blasting will be practiced to control vibrations and flying fragments.
- Optimum charge will be used, while blasting near office complex/ infrastructure site.
- Maximum charge per delay will always be less than 30 kg. to limit the PPV levels within the DGMS standards of 15 mm/sec.

k. Brief description on method of procurement and storage of explosives.

- a. Proper and safe storage of explosives in approved and Licensed Magazine.
- b. Proper, safe and careful handling and use of explosives by competent Blasters having Blaster's Certificate of Competency issued by DGMS.
- c. Proper security system to prevent theft/ pilferage, unauthorized entry into Magazine area and checking authorized persons to prevent carrying of match box, lights, mobile phones, cigarette or Beedi, etc.
- d. The explosives of class 2 will be used in their original cartridge packing and such cartridge shall not be cut to remove explosive for making cartridge of different size.
- e. Detonators will be conveyed in special containers. These will not be carried with other explosives.
- f. The holes which have been charged with explosives will not be left unattended till blasting is completed.
- g. Before starting charging, clear audible warning signals by Sirens will be given so that people nearby can take shelter.
- h. Blasting operations will be carried out in day times only. However, in this project the mining operations are proposed to be carried out in day times.

Storage of Explosive

Considering low consumption, a 400 kg. magazine is for storing the explosive. The magazines available within the complex. The controlled blasting is proposed by adopting all the safety measures as per "MMR 1961" and with the permission of DGMS.

Blasting will be performed as per requirement on the face. The explosive by authorized blasting party himself and the blasting will be carried out by registered blasting contractor as per present practices.



11. **Waste Disposal**

a. **Location (show it in the development plan)**

Disposal of waste have been Shown in environment plan & surface runoff plan in plate no.-7 & 9.

b. **Area covered**

Years	Top soil (cu.m.)	Overburden (cu.m.)	Area (ha.)
I - V	96,208 (concurrently used)	48,104 (concurrently used)	0.1539 (outside, own land)

c. **Environmental safeguards for such disposal**

Top Soil

The topsoil excavated from the quarry will be dumped separately at pro-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. Precautions will be taken to limit the height of the topsoil dump to 5 to 6 meters in order to preserve its fertility and shelf life. It will be suitably protected from soil erosion and infertility by planting fodder grass and leguminous plants during temporary storage.

Overburden

This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.

Safeguard measures for dump

- Proper slope will be maintained to avoid rundown of edges and sides of the dump.
- Retaining wall shall be constructed on downward side to prevent rolling of boulders outside the dumping area and also to prevent inadvertent entry by persons or animals.
- Proper heights and width of terraces will be created.
- Due care will be taken to plan the overall slope of 27° for each dump.
- Regular water sprinkling shall be carried out.
- Proper drainage plan given for prevent sliding & de-siltation runoff water

12. **Mine drainage**

(Give details of total make of water during dry and rainy season and its method of handling)

Topography:

Sr.no.-9

Rain Fall:

The normal rainfall of the district is 2555 mm. Out of this, major rainfall contribution is from SW monsoon followed by the NE.



Method of handling

Normally, the mine will be closed during rains, in case of necessity accumulated rainy water (free from suspended solid material) from pit bottom may be pumped out & may spilled over adjoining areas, which may be used by native plants (rubber / coconut) and the same will be use for watering saplings/trees in the plantation side.

Storm water management

The following measures will be taken with respect to the prevailing site conditions:-

- Storm water drains with silt traps will be suitably constructed all along the periphery of the pit area to collect the run-off from the mine area and divert into the storm water pond.
- All measures will be taken not to disturb the existing drainage pattern adjacent to the other property.
- The storm water collected from the mine area will be utilized for dust suppression on haul roads, plantation within the premises, etc. The details showing the storm water drains, retaining walls are shown in **Surface Runoff Map**.

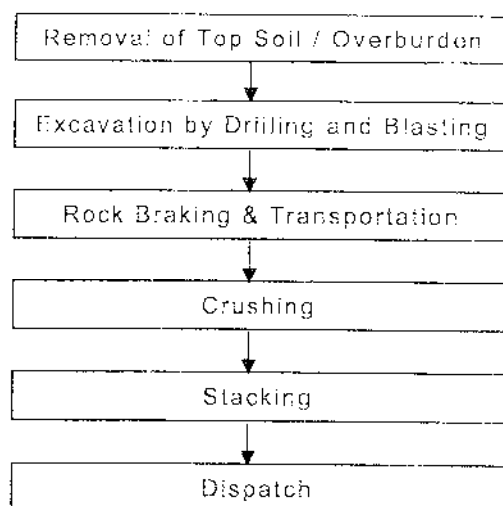
13. Mineral processing

(give details of processing including sizing sorting, generation of rejects / fines etc.)

The stone excavated from the mine will be transported to the nearby crushing unit, further transported to the destination from crushing-site through trucks/tractor-trolley. No beneficiation of stone will be done or required at mine site.

Flow chart:-

The proposed mining operations will be carried out by open cast semi-mechanized method. The process flow diagram given below depicts the mining process:-





14.	a. No. of trees to be uprooted due to mining operation						
	ACTIVITY	First	Second	Third	Fourth	Fifth	At the end of life of mine
	No. of trees to be uprooted	374	263	195	102	57	-

b. Programme of Plantation

Towards the closure activity plantation at the end of Plan Period is as follows:

ACTIVITY	First	Second	Third	Fourth	Fifth	At the end of life of mine
PLANTATION (NO. OF PLANTS)	1007	867	867	867	867	1180

15. Manpower

a. Supervisory (inclusive of statutory personnel's)

Mines manager = 1

Mines forman = 1

b. Non-supervisory (skilled, semi-skilled & unskilled)

No. of workers = 28

c. OMS

--

SITE SERVICES:- The following site services will be provided :

- i) Office
- ii) Store
- iii) First Aid centre
- iv) Drinking water shed
- v) Rest Shelter

Mine office would be having store as well as first-aid facilities. The drinking water would be provided in rest shelter in cans and pitchers.

16. Use of Mineral :

a. (Specification and monthly quantity to be dispatched be furnished)

The annual production of mineral = 5,01,557 MTA

b. For domestic use

The aggregate produced is sold to the contractors and to the consumers which is finally consumed locally for road (State Highway & National Highway) & building construction works. Fine Material is also sold to the hollow block/ solid block manufactures.

Also, 40% of the rubble produced will be sold to general public.

c. For export (if applicable)



NA

17. **Mine Closure Plan**

(a) Describe the process / activities to be undertaken for reclamation and rehabilitation in respect of the following :

- i. Mined out land
- ii. Waste / reject dump
- iii. Top-soil stack and its utilization

(i) **Mined-Out Land:**

At the end of mining Plan period about 8.0563 ha. area will be disturbed in form of pit, drainage, undisturbed area and green belt. Life of the mine is 6 years. The proposal for reclamation or rehabilitation of mined out land with manner in which the actual site of the pit will be restored for future use is given below:

Sr. No.	Land Use Category	Pre-Operational (Ha.)	Operational for next five years (Ha.)	Post Operational for life of mine (Ha.)
1	Top Soil Dump	Nil	Nil	Nil
2	Over burden	Nil		
3	Excavation (Voids Only)	2.8239	6.4303	6.542 (4.648 ha. Reclaimed by plantation & 1.894 ha. Convert into pond)
4	Road	0.0461	0.1117	Nil
5	Built Up Area	Nil	Nil	Nil
6	Drainage /Pond	0.3759	0.2606	0.2606
7	Green belt	Nil	1.0077	1.0077
8	Non-mineable area	4.8104	0.246	0.246
	Total	8.0563	8.0563	8.0563

(ii) **Waste / reject dump management**

This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.



(iii) Top-soil stack and its utilization

The topsoil excavated from the quarry will be dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. Precautions will be taken to limit the height of the topsoil dump to 5 to 6 meters in order to preserve its fertility and shelf life. It will be suitably protected from soil erosion and infertility by planting fodder grass and leguminous plants during temporary storage.

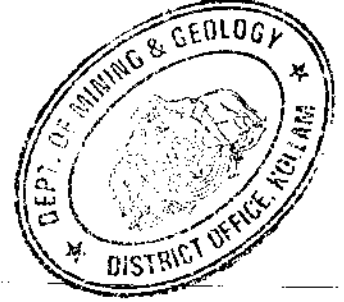
(b) Financial assurance (as and when required)

(To be furnished as a bank guarantee in respect of the area to be put to use at the rate of Rs. 25,000 Per hectare)

The Financial assurance of Rs. 2.25 Lac in the form of Bank guarantee as stated in rule 62 or 58 of KMMCR, 2015 will be given by Lessee to the State Govt. at the time of demand.

Table Indicating the Break Areas in the Mining Mine For Calculation of Financial Surface.

Sr. No.	Head	Area put on use at start of Plan. (In Ha.)	Additional requirement during Plan period. (In Ha.)	Area considered as fully reclaimed & rehabilitated (In Ha.)	Net area considered for calculation (In Ha.)
1.	Area under mining	2.8239	6.4303	6.542	6.542
2.	Storage for top soil	0.0000	0.0000	0.0000	0.0000
3.	Overburden /dump	0.0000	0.0000	0.0000	0.0000
4.	Mineral storage	0.0000	0.0000	0.0000	0.0000
5.	Infrastructure Workshop, administrative Building etc.)	0.0000	0.0000	0.0000	0.0000
6.	Road	0.0461	0.1117	0.0000	0.0000
7.	Railways	0.0000	0.0000	0.0000	0.0000
8.	Green Belt	0.0000	1.0077	1.0077	1.0077
9.	Drainage/ pond	0.3759	0.2606	0.2606	0.2606
10.	Effluent Treatment Plan	0.0000	0.0000	0.0000	0.0000
11.	Mineral Separation Plan	0.0000	0.0000	0.0000	0.0000
12.	Township Area	0.0000	0.0000	0.0000	0.0000
13.	Non-mineable area	4.8104	0.246	0.246	0.246
GRAND TOTAL		8.0563	8.0563	8.0563	8.0563

**18.0 ENVIRONMENTAL MANAGEMENT PLAN**

Environment Management Plan is a systematic programme which includes environment impact assessment, planning for offsetting the ill effects of development, implementing the programmed for resource management, development planning, and close control over day-to-day operations, regular monitoring and auditing of environmental performance.

Collection of base line information is essential which serve as a guide to determine how the future development will affect the environment compared to the present base line status.

18.0 (A) BASE LINE INFORMATION:-

Most of the useful base line information has been collected in the field which are very helpful in preparation of this mining plan which is as given below:-

18.0 (A) (i) EXISTING LAND USE PATTERN:-

Existing land use pattern has been described for land use in mine area, core zone and buffer zone separately.

18.0 (A) (ii) LAND USE IN MINE AREA:-

The land in the mine area is partially private own land and partially Govt. land. Some Part of the proposed land is exposed rock / existing pit area and remaining land is covered with native trees, shrubs, herbs, grass, climbers, bushes etc. Presently, exist plantation details is shown in Sr. no. 14 (a).

18.0 (A) (iii) LAND USE IN CORE ZONE:-

Land, in core zone i.e. 500 m around the mine area is generally covered with mixed plantation, hillock and paddy fields. The other rocky area used for mining. In addition to above, there are no houses within 50 m. radius from the proposed quarry.

18.0 (A) (iv) LAND USE IN BUFFER ZONE:-

Area around the mine area within a radius of 500 m is dominated by hillocks and mixed plantation. In addition to above, there are villages, panchayat / municipal roads, power transmission line and telephone lines etc. in this zone.

18.0 (A) (v) DEGRADATION OF LAND & CHANGE OF PROFILE-IMPACT ON LAND USE:-



There will be no change on existing land use in the mine area and there will not be any change in buffer zone.

18.0 (A) (vi) WATER REGIME:-

In the buffer zone, there is no prominent nalla or river flowing within the mine area. There is tube well / open well existing near to the mine area. The ground water depths were observed from the available nearby sources. The observation made during the field studies are below the existing ground level.

18.0 (A) (vii) RAINFALL:-

The normal rainfall of the district is 2555 mm. Out of this, major rainfall contribution is from SW monsoon followed by the NE.

18.0 (A) (viii) QUALITY OF AIR:-

Quality of present ambient air is within the permissible limit of CPCB norms. Lab report enclosed.

18.0 (A) (ix) FLORA:-

Part of the proposed land is exposed rock / existing mining area and the remaining proposed land is covered with native trees, shrubs, herbs, grass, climbers, bushes etc. No red listed category is found at the site visit.

18.0 (A) (x) FAUNA:-

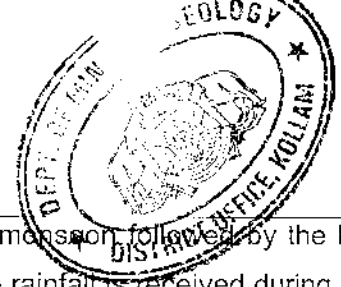
There is no wild life in core zone, buffer zone and mine area. The barren and agricultural lands with urban activities all around the area do not provide favorable home land to wild fauna. The details studies were carried out and are provided. No scheduled category species is found at the site visit.

18.0 (A) (xi) AMBIENT NOISE LEVEL:-

Mining will be by semi-mechanized opencast method so no significant increase in noise level is expected.

18.0 (A) (xii) CLIMATIC CONDITIONS:-

The district has more or less the same climatic conditions prevalent elsewhere in the State viz. dry season from December to February and hot season from March to May, the South-West monsoon from June to September and the North East monsoon from October to December. The average temperature is 32°C and the average relative humidity is 75% recorded. The normal rainfall of the



district is 2555 mm. Out of this, major rainfall contribution is from SW monsoon followed by the NE. The South West monsoon is usually very heavy and nearly 73.5% of the rainfall is received during this season. NE monsoon contributes nearly 16.4% and March to May summer rain contributes nearly 9.9% and the balance 0.2% is accounted for January and February months.

18.0 (A) (xiii) HUMAN SETTLEMENT:-

There are no houses within 50 m. radius from the proposed quarry. The occupation of the inhabitants of these villages is connected with mining of different minerals & crushing industry. They work as subcontractors, transporters and mine workers. Some are also employed in different industries in the nearby town and do trading and agricultural work.

18.0 (A) (xiv) PUBLIC BUILDING, PLACES OF WORSHIP AND MONUMENTS:-

There is no public building, places of monuments in the mine area. There are no public building like school, Govt. department office, railway station and hospital etc. in buffer zone.

18.0 (A) (xv) LOCATION OF SAMPLING STATIONS:-

Location of sampling stations has been shown in Plate No. 7.

18.0(A) (xvi-a) DOES AREA (PARTLY OR FULLY) FALL UNDER NOTIFIED AREA UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974:-

No .

18.0(A)(xvi-b) ENVIRONMENT IMPACT ASSESSMENT STATEMENT DESCRIBING THE IMPACT OF MINING AND BENEFICIATION ON ENVIRONMENT OVER THE NEXT FIVE YEARS :-

There will not be any significant impact of mining on environment due to various mitigation measures.

18.0 (B) LAND USE:-

Sr. No.- 17 a (i).

18.0(B) (i) BASE LINE DATA:-

The base line data of the existing environment around the applied area has been undertaken with respect to the following:-

- 1-Ambient air quality
- 2-Water quality
- 3- Soil quality
- 4-Noise



18.0(B) (ii) AMBIENT AIR QUALITY:-

Quality of present ambient air is within permissible limit. There is no industrial activity in and around the mine area.

The mining has been proposed by semi-mechanized open cast method. Water spraying will be done on haul/service roads, mining area, loading and unloading places etc. There will not be any significant impact on ambient air quality.

18.0(B) (iii) WATER QUALITY:-

There is well water available near to the mine area which is suitable for drinking purposes.

18.0(B) (iv) NOISE LEVEL:-

Since mining has been proposed by semi-mechanized open cast method and noise level will be within permissible limit.

18.0(B) (v) VIBRATION LEVELS (DUE TO BLASTING)

The only source of ground vibrations is due to blasting operations. Based on the ground vibration studies made earlier proper care will be taken during blasting operations.

18.0(B) (vi) WATER REGIME:-

There is no natural water body in the mine area. Mining operation will terminate much before the water table and there is not intersection.

18.0(B) (vii) SOCIO-ECONOMICS:-

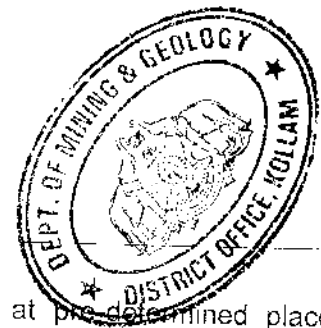
The mining in the region will open the gates for socio-economic upliftment of the area and the area in and around the mine area. People will either be employed in the mines getting reasonable wages or will be self employed in the ancillary work of mining. At the same time people will be getting better facilities of communication and amenities due to mining activities in the region.

18.0(B) (viii) HISTORICAL MONUMENTS ETC.:-

There are no historical monuments in the mine, core and buffer zone area, hence there will not be any affect on historical monuments.

18.0 (C) ENVIRONMENT MANAGEMENT PLAN

18.0 (C) (i) TEMPORARY STORAGE AND UTILISATION OF TOP SOIL:-



Topsoil Management

The topsoil excavated from the quarry will be dumped separately at the determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. Precautions will be taken to limit the height of the topsoil dump to 5 to 6 meters in order to preserve its fertility and shelf life. It will be suitably protected from soil erosion and infertility by planting fodder grass and leguminous plants during temporary storage.

Overburden Management

This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.

18.0(C) (ii) YEAR WISE PROPOSALS FOR RECLAMATION OF LAND AFFECTED BY ABANDONED QUARRIES AND OTHER MINING ACTIVITIES DURING FIRST FIVE YEARS:-

As the mining will progress, the areas where ultimate pit depth is reached, backfilling will be started.

This will be reduced the transportation of OB and waste outside the pit area.

18.0 (C) (iii) EXTENT OF BACKFILLING AND RECONTOURING:-

There is proposal of backfilling and re-contouring during the next five years of this mining plan.

18.0(C)(iv) ALTERNATE USE OF UNFILLED/PARTIALLY FILLED / EXCAVATIONS / ROAD SIDES / SLOPES AND MINE:-

The reclaimed area may also be considered for plantation to develop green belts.

18.0 (C) (v) USE OF ABANDONED QUARRIES/PITS PROPOSED TO BE USED AS RESERVOIR ETC:-

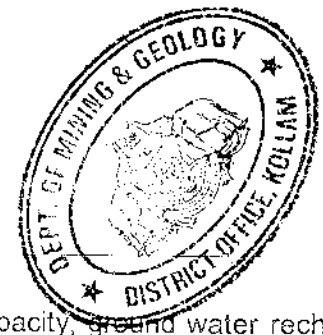
Abandoned pits will be utilized for water storage during rainy season. This water will be utilized for irrigation and plantation etc. It will also help in recharging the ground water.

18.0 (C) (vi) PROGRAMME FOR AFFORESTATION:-

The year wise programme of eco-restoration for the life of mine, about 5,655 trees will be planted in an area of 5.6557 ha.

Biological reclamation / ecological restoration for the mined area by plantation of the species as per the time schedule suggested below: -

First Six months	--	Herbs & grass
Next Six months	--	Shrubs



Next Six months onwards

Trees

Selection of species is based on High Dust Capturing, Soil Holding Capacity, ground water recharge capacity etc. More focus is given for medicinal plants.

18.0 (C) (vii) PLANTATION PROGRAMME:-

- (i) Plantation along the boundary of the mine area i.e. within 7.5 m barrier of the mine area boundary has been proposed which will help to improve the environment and ecology.
- (ii) Plantation will be done around offices, road side and fencing boundary etc.

18.0 (C) (xiv) SPECIES TO BE PLANTED:-

Further afforestation programme up to conceptual plan period will be similar to the above five years programme which will be repeated every five years.

18.0 (C) (xv) POST PLANTING CARE:-

Post planting care is most essential for healthy growth of vegetation. This will comprise:-

- i. Replacement of casualties at the first opportunity itself.
- ii. Weeding monthly for first two months and later on six monthly.
- iii. Irrigation fortnightly from Oct. to March, once in 10 days between April and June.
- iv. Soil working, Manuring, mulching etc. twice in a year.
- v. Protection from grazing cattle etc.

18.0 (C) (xvi) TREATMENT AND DISPOSAL OF WATER FROM MINE:-

There will not be any disposal of water from the mine and hence no treatment of water is required. The mines working have been proposed quite above the ground water table.

MEASURES FOR MINIMISING ADVERSE EFFECTS ON WATER REGIME:-

There is no natural water body in the mined area. The garland drain / check dam will be built around the dump to channelize runoff water through settling ponds.

18.0 (C) (xvii) PROTECTIVE MEASURES FOR GROUND VIBRATIONS / AIR BLAST CAUSED BY BLASTING:-

The controlled blasting is proposed by adopting all the safety measures as per "MMR 1961" and with the permission of DGMS.

In this area for fragmentation of granite the blasting will be conducted. Multiple blast holes of 1.0 to 1.5



m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity.

18.0 (C) (xviii) MEASURES FOR PROTECTING HISTORICAL MONUMENTS:-

Since there are no protecting historical monuments in the mine area or buffer zone, therefore no measures for protecting of these monuments are required.

18.0 (C) (xix) REHABILITATION OF HUMAN SETTLEMENTS LIKELY TO BE DISTURBED DUE TO MINING ACTIVITY:-

The mining activity will be confined to areas away from villages. No population will be affected by mining activities and as such the question of rehabilitation of the people displaced by mining operations does not arise. No rehabilitation of human settlement is involved due to mining operation.

18.0 (C) (xx) SOCIO-ECONOMIC BENEFITS ARISING OUT OF MINE:-

It is expected that mining can boost the gross economic production of the area other than industrial activities. It provides new avenues of direct or in direct employment and business. These coupled with growth in infrastructural facilities results in improved socio-economic prospects.

The mining in the region will open the gates for socio-economic upliftment of the area. People will be employed in the mines and will be self employed in the ancillary works. People will be getting better facilities of communication and amenities due to mining activities in the region.

The CSR activities for the welfare of local community will be carried out in consultation with the Grama Panchayat Office. The details of CSR (Corporate Social Responsibility) activities is attached as **Annexure No. 12.**

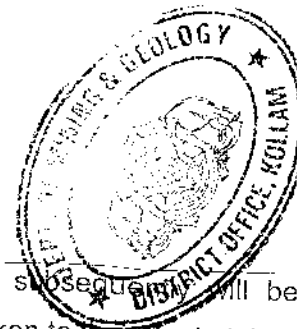
18.0 (D) ENVIRONMENTAL MONITORING :-

An environment protection cum afforestation cell has been proposed. It will be responsible for implementing the proposed measures and monitor the progress of implementation and reinforce them wherever necessary.

18.0 (D) (i) LAND USE MANAGEMENT:-

Topsoil Management

Topsoil is proposed to be removed during the mining operations. The topsoil excavated from the



quarry will be dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. Precautions will be taken to limit the height of the topsoil dump to 5 to 6 meters in order to preserve its fertility and shelf life. It will be suitably protected from soil erosion and infertility by planting fodder grass and leguminous plants during temporary storage.

(i) Overburden Management

Overburden will be generated throughout the mine life. This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.

(iii) End Land Use Plan

As a result of phase wise working of the pit area will be reclaimed at the end of mining operation leaving no void.

18.0(D) (ii) MANAGEMENT OF MINING ENVIRONMENT DEGRADATION (GENERAL):-

Following control measures will be taken to abate the deteriorating impact on environment and improving the same. For affective management of this, a few persons will be exclusively provided who will be responsible for implementing the control measures and to monitor the progress of implementation of these measures in order to minimize environmental degradation.

18.0(D) (iii) SOLID WASTE MANAGEMENT:-

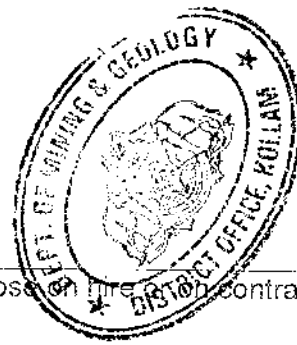
The mine waste and other are proposed to be stacked in the dump area specially provided for the purpose. Care has been taken in selecting the site for the stacking yards for the stacking purpose. It is located in a secure place and having solid base and on a non used zone. These dump yards have been protected by toe walls. The toe walls will be constructed during first year period. The height of these dumps will also be restricted and benched. A retaining wall 0.5 m x 1.0 m will be made on the low altitude side of the dump.

18.0(D) (iv) MONITORING OF AIR BORNE DUST:-

It is known that very fine silica dust is harmful to human beings. It is also known that dust between 0.2 to 5 microns is harmful to the lungs. Thus it is very important to know the dust concentration in the air where there is mining activity.

Vegetation cover will help in restricting the spread of dust in surrounding area. The bushes and scrubs will also act as barriers for arresting spread of dust there.

In the mine, dust is generated mostly by plying of tractor/trucks. Air borne dust generated by plying of trucks can be considerably reduced by sprinkling water on roads.



A tanker of about 1000 liters capacity will be deployed for this purpose on hire contract basis.

18.0(D) (v) MANAGEMENT OF NOISE PROBLEM:-

Source of noise pollution have already been dealt.

To reduce the noise caused by machineries and equipments at the mine, mufflers of adequate size and capacity shall be provided with equipments at the mine.

Chief sources of noise pollution in the mine will be vehicle.

Based on LOI practice, in Directorate General of Mines Safety circular no.-158 (Tech.) of 1975, noise standards have been recommended. According to this, there is a warning limit value of 85 db (A) by which the danger of hearing impairment and deafness may result from unprotected ear.

Personnel protective equipment have to be used if there are single isolated out bursts of noise which can go above 130 db (A) impulse or 120 db (A). Noise from trucks can be reduced by using mufflers of adequate size and strength and better maintenance of the equipments.

Noise will not be the problem as the mining has been proposed by semi-mechanized open cast method.

18.0(D) (vi) MANAGEMENT OF GROUND VIBRATIONS:-

The only source of ground vibrations is due to blasting operations. Based on the ground vibration studies made earlier proper care will be taken during blasting operations.

18.0(D) (vii) MANAGEMENT OF LAND SLIDE PROBLEM:-

The final pit slope is kept at not steeper than 45° which is not likely to cause any problem in respect of slope stability. Thus there is no likelihood of any land slide at any stage in future.

18.0(D) (viii) MANAGEMENT OF HUMAN SETTLEMENT PROBLEM:-

The mining activity will be confined to remote area away from villages. No population will be affected by such mining activities. As such the question of rehabilitation of the people displaced by mining operations does not arise.

18.0(D) (ix) MANAGEMENT OF WILD LIFE HABITATE:-

No specific management is proposed because there is no wildlife, sanctuary etc. within the study area.

18.0(D) (x) MANAGEMENT OF FLORA:-

Existing flora will be improved by plantation of trees.



18.0(D) (ci) MANAGEMENT OF TOP OVERBURDEN:-

Top overburden will be stored in the non used zone and sold out as per market demand.

18.0(D) (cii) MANAGEMENT OF CROPPING PATTERN:-

No management is specifically being proposed because of no apparent adverse impact on cropping pattern due to mining.

18.0(D) (ciii) MANAGEMENT OF PLACES OF TOURIST INTEREST ETC.:-

Since there is no place of tourist interest in the area, therefore no management has been proposed.

18.0(D) (xiv) WATER COURSES, SPRINGS ETC. MANAGEMENT THEREOF:-

N.A.

18.0(D) (xv) MANAGEMENT OF SOCIO-ECONOMIC PROBLEMS:-

There will be positive impact on socio-economic conditions of the area due to mining. There will be given preference in the matters of employment.

18.0(D) (xvi) CLIMATICAL ASSESSMENT FOR IMPROVEMENT:-

Proposed plantation will improve present climatic conditions. This will be continuously monitored by environment management cell.

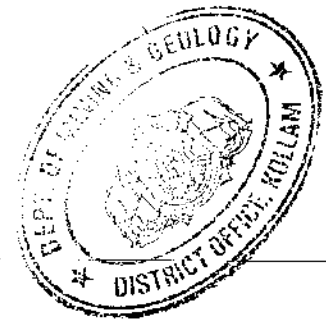
(A.M. Chackochan)
Managing Partner

MUKESH SUROLIYA
RQP/JM/321/2016/A
20.09.2020

Mukesh Suroliya
(RQP/JM/321/2016/A)



PROGRESSIVE MINE CLOSURE PLAN



19. **Progressive mine closure plan**

1.0 INTRODUCTION

(a) Name & Address of lessee:

Sr. no.-1

(b) Location of the mine area:

Sr. no.-2

(c) Extent of the Mine Area

Sr. no.-2

(d) Present Land Use Pattern:

Sr. no.- 2

(e) Method of mining

Mining has been carried out by open cast semi mechanized. As per the mining of mine area and geological formation of the mining mine area, the manual mining is proposed to achieve the annual targeted production.

(f) Mineral processing operation:

No mineral beneficiation have been proposed in the mining mine area.

1.1 Reasons for Closure:

The economical mineral reserve does exist in the mining mine area so reasons for closure of mine is not applicable at present.

1.2 Statutory Obligations:

The PMCP Prepared in Compliance of Rules 37E (VI) so statutory obligation for closure of mine is not applicable at present.



1.3 Closure Plan Preparations

A. NAME, ADDRESS AND REGISTRATION NUMBER OF THE RECOGNISED PERSONS WHO PREPARED THE PROGRESSIVE CLOSURE PLAN

Name of RQP- Mukesh Suroliya

Reg.No. RQP/AJM/321/2010/A

Validity 28 Sep. 2020

Address of RQP: -

5A/6, Vijay Bari, Dher Ka Balaji,

Sikar Road, Jaipur-302023. (Rajasthan)

Mobile No.-+91-9269028299

Email: - mukeshsuroliya@yahoo.co.in

Executing Agency

M/S AISWARYA GRANITES,

2.0 Mine description: (Topography,Regional Geology,Local Geology, General description of formations,Geological section,Details of exploration, Method of estimation of reserves,Reserves of minerals,Summary of geological & mineable reserves)

Sr. no.- 9

2.1 Mining Method:

Sr. no.-10

2.2 Mineral Beneficiation:

No beneficiation is required at mine site. The mineral is directly marketable.

3.0 Review of implementation of mining Plan including five years progressive closure plan up to the final closure plan.

Review of Plan of Mining with progressive mine closure plan has been discussed and given in details in Sr. no. 17 of this mining Plan. Hence repetition of the same is avoided here.



4.0 CLOSURE PLAN

4.1 Mined-Out Land:

Sr. no.- 17 a (i).

4.2 Water quality management:

Surface water: -

There is no surface water body within existing mine area and hence impact of Mining on surface water will not take place. Ground water table is not going to be touched, hence there will also be no impact on ground water.

Ground water quality: -The proposed mining activity for next five year will reached up to 60 m. RL. It is expected that mining will not intersect the water table in the area. Therefore, its quality will remain unchanged. No ground water management is required.

4.3 Air Quality management

Mining operation are of small scale so air pollution due to dust will be negligible.

Wet drilling have been proposed to minimize the dust. Water sprinklers were proposed on haul road once in a day especially during dry seasons.

4.4 Waste management

Sr. no.-11 c.

4.5 Top Soil Management

Sr. no.-11 c.

4.6 Tailing Dam Management:

There is no proposal of beneficiation for processing of mineral as it is used directly in crude form, so no affluent will generated. Therefore no tailing dam is required.

4.7 Infrastructure

Sr. no.- 2.

4.8 Disposal of Mining Machinery

Sr. no.- 10 b



4.9 Safety & Security

Safety measures implemented to prevent access to surface opening excavations will be taken as per mines Act 1952, This is a small-scale open cast method adopted, so only some part of the area will be the working zone. The safety measure will be taken for that proposed area only. The remaining area is opened for public. Only the working area will be fenced with fencing wire.

4.10 Disaster Management and Risk Assessment

Open cast mining method is adopted in this mine. If the benches are made with proposed height and width no risk will be there. Even then if any miner or major accident happens, the mines staffs having First aid facilities with first aid box with all the necessary medicines & stretches etc to give the first aid treatment at the side and will arrange immediately the vehicle to reach the nearest hospital. If any disaster happens the lessee is capable to meet such eventualities.

At the time of any accident during mining activity proposal of first aid facility at mines site and one vehicle at mines side. Distance of nearby hospital is 2.5 km from site.

4.11 Care and Maintenance during temporary discontinuance

During the temporary discontinuance the working place will be fenced completely & a board of discontinuance will be hanged on the main entrance of the working place. One choudidar will be kept on the mined area to watch the area and look after the survival of the plants.

5.0 Economic Repercussions of closure of mine and Manpower retrenchments.

5.1 During the next five years mining in will generate employment potential and general financial status and socio economic conditions of approx 30 Laborers will be improved.

5.2 During the next five years compensation will be given as per rules .

5.3 Satellite occupations are not connected to the Mining operation.

5.4 Continued engagement of employees for certain mandatory activities.

6.0 Time scheduling for abandonment:

This scheduling for abandonment operations are not proposed in para 4 of closure Plan. If the mine is closed due to unforeseen reason then tentatively it will 12 months for closure. The proposed rate of production for the mine is 5,01,557 MTA. As per minable reserves, life of mine is 6 years.



7.0 Abandonment Cost

Abandonment is not proposed during five years of Mining operation. But implementation of waste management like retaining wall and afforestation is proposed as continuous process. Cost of these is around 10,000 to 15,000 Rs. Per year.

8.0 Financial Assurance

The Financial assurance of Rs. 2.25 Lac in the form of Bank guarantee as stated in rule 32 or 53 of KMMCR, 2015 will be given by Lessee to the State Govt. at the time of demand.

9.0 PLANS, SECTIONS etc.

All relevant plans & sections have been enclosed.

- 1 Location Map (Neighbour map)
- 2 Topographical contour map at 5 m. intervals with UTM grid covering
- 3 Surface and Geological plan and three sections
- 4 Production & Development Plan with production schedule and cost
- 5 Year wise tentative allocation plan
- 6 Reclamation plan & sections
- 7 Environmental Plan
- 8 Conceptual Plan (Post Mine Closure Plan) & sections
- 9 Surface Runoff Map (Drainage Plan)

Place: Jaipur

Date : 27-03-2019

MUKESH SUNDIYA
RDP/AM/321/2019
18/03/2019

Mukesh Sundiya

RDP/AM/321/2019

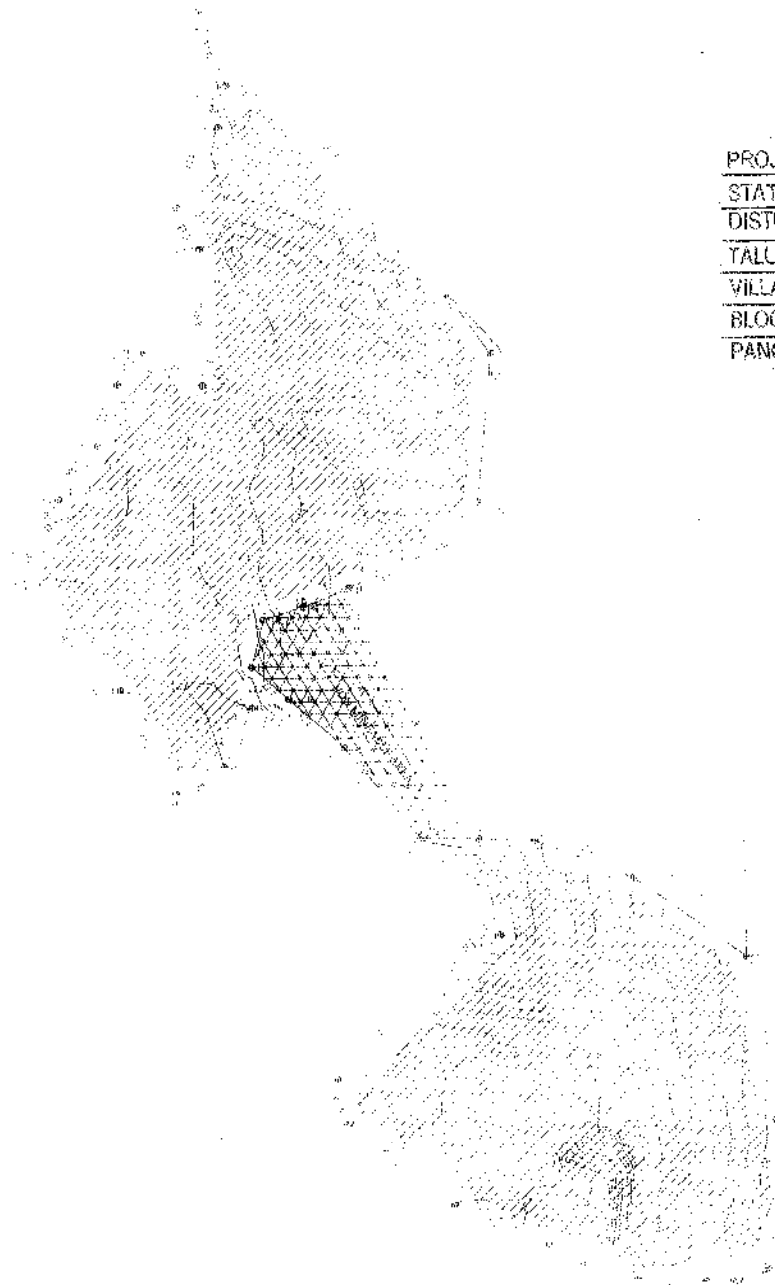
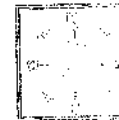
Validity-28 Sep 2020



LIST OF PLATES

KOLLAM: CONTOUR MAP

PLATE No. 1



PROJECT	M/S ADWARYA GEOTECH
STATE	KERALA
DISTRICT	KOLLAM
TALUK	KOTTARAKARA
VILLAGE	ELAMAD
BLOCK NO	27
PANCHAYATH	ELAMAD

BOUNDARY PILLARS WITH GPS COORDINATES

POINT NO	Degree, Minute, Second	
	Latitude	Longitude
BP1	08°52'46.84"N	76°48'21.83"E
BP2	08°52'47.44"N	76°48'21.83"E
BP3	08°52'47.82"N	76°48'21.83"E
BP4	08°52'48.77"N	76°48'21.83"E
BP5	08°52'49.07"N	76°48'21.83"E
BP6	08°52'50.37"N	76°48'21.83"E
BP7	08°52'53.76"N	76°48'21.83"E
BP8	08°52'52.00"N	76°48'21.83"E
BP9	08°52'52.00"N	76°48'21.83"E
BP10	08°52'53.00"N	76°48'21.83"E
BP11	08°52'53.00"N	76°48'21.83"E
BP12	08°52'53.39"N	76°48'21.83"E
BP13	08°52'53.17"N	76°48'21.83"E
BP14	08°52'50.10"N	76°48'21.83"E
BP15	08°52'51.76"N	76°48'21.83"E
BP16	08°52'51.64"N	76°48'21.83"E
BP17	08°52'46.30"N	76°48'21.83"E
BP18	08°52'42.10"N	76°48'21.83"E
BP19	08°52'42.10"N	76°48'21.83"E
BP20	08°52'41.51"N	76°48'21.83"E
BP21	08°52'40.16"N	76°48'21.83"E
BP22	08°52'37.40"N	76°48'21.83"E
BP23	08°52'35.38"N	76°48'21.83"E
BP24	08°52'35.00"N	76°48'21.83"E
BP25	08°52'34.38"N	76°48'21.83"E
BP26	08°52'34.61"N	76°48'21.83"E
BP27	08°52'34.00"N	76°48'21.83"E
BP28	08°52'35.14"N	76°48'21.83"E
BP29	08°52'35.48"N	76°48'21.83"E
BP30	08°52'36.15"N	76°48'21.83"E
BP31	08°52'32.60"N	76°48'21.83"E
BP32	08°52'32.00"N	76°48'21.83"E
BP33	08°52'30.00"N	76°48'21.83"E
BP34	08°52'41.22"N	76°48'21.83"E
BP35	08°52'41.70"N	76°48'21.83"E
BP36	08°52'41.60"N	76°48'21.83"E
BP37	08°52'45.10"N	76°48'21.83"E
BP38	08°52'44.42"N	76°48'21.83"E
BP39	08°52'43.40"N	76°48'21.83"E
BP40	08°52'43.00"N	76°48'21.83"E
BP41	08°52'46.76"N	76°48'21.83"E
BP42	08°52'45.00"N	76°48'21.83"E
BP43	08°52'46.10"N	76°48'21.83"E
BP44	08°52'47.30"N	76°48'21.83"E

LEGEND

	PROPOSED MINING AREA
	7.5 M. BUFFER ZONE
	NON MINERABLE AREA
	OVERALL PROPOSED AREA
	CONTOUR LINE
	SPOT ELEVATION

SCALE 1:2500
ALL DIMENSIONS ARE IN METERS

PLAN-DEC

Prepared by: M/S ADWARYA GEOTECH
Checked by: M/S ADWARYA GEOTECH
Approved by: M/S ADWARYA GEOTECH
Date: 20/11/2011

NOTE :-

- PROPOSED MINING AREA - 10000 SQ. M.
- STATUS OF QUARRY - EXISTING AREA & NEW AREA

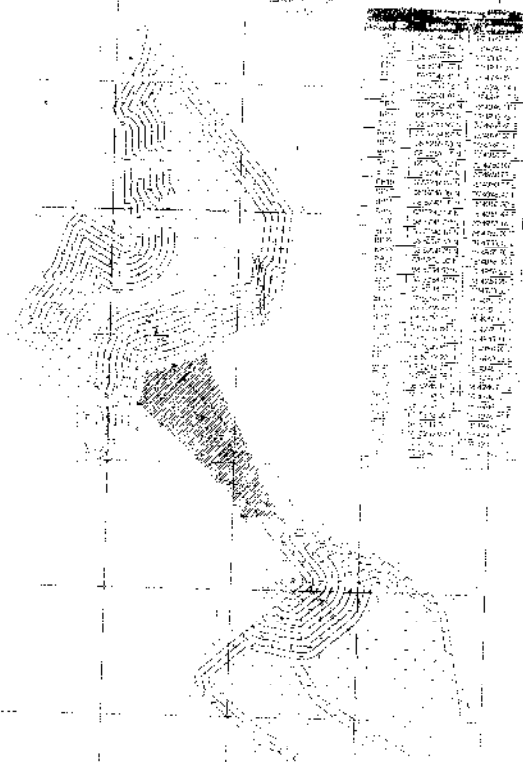
The figure consists of four geological cross-sections, labeled A, B, C, and D, arranged in a 2x2 grid. Each section shows a different geological structure and rock types.

- Section A (top left):** Shows a simple geological structure with a horizontal line representing the ground surface. Below the surface, there is a layer of rock with a stippled pattern, and a layer of rock with a diagonal line pattern.
- Section B (top right):** Shows a more complex geological structure. The ground surface is represented by a dashed line. Below the surface, there is a layer of rock with a stippled pattern, and a layer of rock with a diagonal line pattern. The structure is more complex than Section A, with a more irregular ground surface and a more complex internal structure.
- Section C (bottom left):** Shows a geological structure with a ground surface represented by a dashed line. Below the surface, there is a layer of rock with a stippled pattern, and a layer of rock with a diagonal line pattern. The structure is more complex than Section A, with a more irregular ground surface and a more complex internal structure.
- Section D (bottom right):** Shows a geological structure with a ground surface represented by a dashed line. Below the surface, there is a layer of rock with a stippled pattern, and a layer of rock with a diagonal line pattern. The structure is more complex than Section A, with a more irregular ground surface and a more complex internal structure.

The figure is a geological cross-section showing four different geological structures (A, B, C, and D) and their corresponding rock types. The structures are defined by their ground surface profiles and internal geological features. The rock types are represented by different patterns: stippled for one type and diagonal lines for another.

Trial	Control	MCI	AD
1	85	75	65
2	88	78	68
3	90	80	70
4	92	82	72
5	95	85	75

8/18/50
FBI
Wash. D.C.



Month	\bar{Y}	\bar{Y}_{pred}
Aug 8	100.0	100.0
Aug 9	100.0	100.0
Aug 10	100.0	100.0
Aug 11	100.0	100.0
Aug 12	100.0	100.0
Aug 13	100.0	100.0
Aug 14	100.0	100.0
Aug 15	100.0	100.0
Aug 16	100.0	100.0
Aug 17	100.0	100.0
Aug 18	100.0	100.0
Aug 19	100.0	100.0
Aug 20	100.0	100.0
Aug 21	100.0	100.0
Aug 22	100.0	100.0
Aug 23	100.0	100.0
Aug 24	100.0	100.0
Aug 25	100.0	100.0
Aug 26	100.0	100.0
Aug 27	100.0	100.0
Aug 28	100.0	100.0
Aug 29	100.0	100.0
Aug 30	100.0	100.0
Aug 31	100.0	100.0

SCALE
0 20 40 60 80 M
SCALE 1:2000

POINT NO	Degree, Minute Second	
	Latitude	Longitude
BP1	08°52'48.54"N	76°49'42.98"E
BP2	08°52'47.44"N	76°49'43.49"E
BP3	08°52'47.92"N	76°49'43.87"E
BP4	08°52'48.77"N	76°49'44.34"E
BP5	08°52'49.81"N	76°49'44.69"E
BP6	08°52'50.33"N	76°49'45.14"E
BP7	08°52'49.76"N	76°49'45.10"E
BP8	08°52'50.00"N	76°49'46.11"E
BP9	08°52'52.68"N	76°49'45.73"E
BP10	08°52'53.99"N	76°49'46.46"E
BP11	08°52'54.67"N	76°49'46.60"E
BP12	08°52'55.89"N	76°49'46.17"E
BP13	08°52'51.17"N	76°49'50.22"E
BP14	08°52'50.19"N	76°49'50.93"E
BP15	08°52'47.76"N	76°49'50.67"E
BP16	08°52'47.04"N	76°49'50.07"E
BP17	08°52'48.39"N	76°49'48.47"E
BP18	08°52'42.18"N	76°49'50.56"E
BP19	08°52'42.14"N	76°49'51.49"E
BP20	08°52'41.51"N	76°49'53.14"E
BP21	08°52'40.18"N	76°49'55.02"E
BP22	08°52'37.49"N	76°49'55.47"E
BP23	08°52'35.28"N	76°49'55.60"E
BP24	08°52'35.00"N	76°49'55.30"E
BP25	08°52'34.83"N	76°49'55.23"E
BP26	08°52'34.81"N	76°49'54.26"E
BP27	08°52'34.85"N	76°49'53.09"E
BP28	08°52'35.14"N	76°49'52.20"E
BP29	08°52'35.46"N	76°49'51.61"E
BP30	08°52'36.15"N	76°49'50.03"E
BP31	08°52'37.54"N	76°49'48.20"E
BP32	08°52'38.26"N	76°49'48.11"E
BP33	08°52'40.60"N	76°49'50.90"E
BP34	08°52'42.22"N	76°49'49.55"E
BP35	08°52'43.72"N	76°49'48.31"E
BP36	08°52'44.55"N	76°49'47.41"E
BP37	08°52'45.10"N	76°49'48.82"E
BP38	08°52'44.42"N	76°49'46.79"E
BP39	08°52'43.44"N	76°49'46.31"E
BP40	08°52'43.00"N	76°49'45.60"E
BP41	08°52'44.78"N	76°49'44.82"E
BP42	08°52'45.90"N	76°49'47.02"E
BP43	08°52'46.10"N	76°49'47.70"E
BP44	08°52'42.22"N	76°49'49.63"E

PLATE No. 1

YEARWISE TENTATIVE EXCAVATION PLAN



INDEX

- LEASE BOUNDARY WITH FENCING
- GRANITE ROCK
- CONTOUR LINE
- SECTION LINE
- MINE SAFETY BARRIER WALL
- BOUNDARY WALL
- YEARWISE EXCAVATION
- RAIN WATER DRAINAGE
- BOUNDARY WALL
- NON MINERAL AREA

MUKESH SUROLIA
ROP/AJM/321/2016/14
Valid upto 28-03-2020

Project Name: M/s. Aiswarya Granites

Village : Elamudi

Taluk : Kottarakkott

District : Kollam

State : Kerala

Plot area : 8.0563 Ha.

G

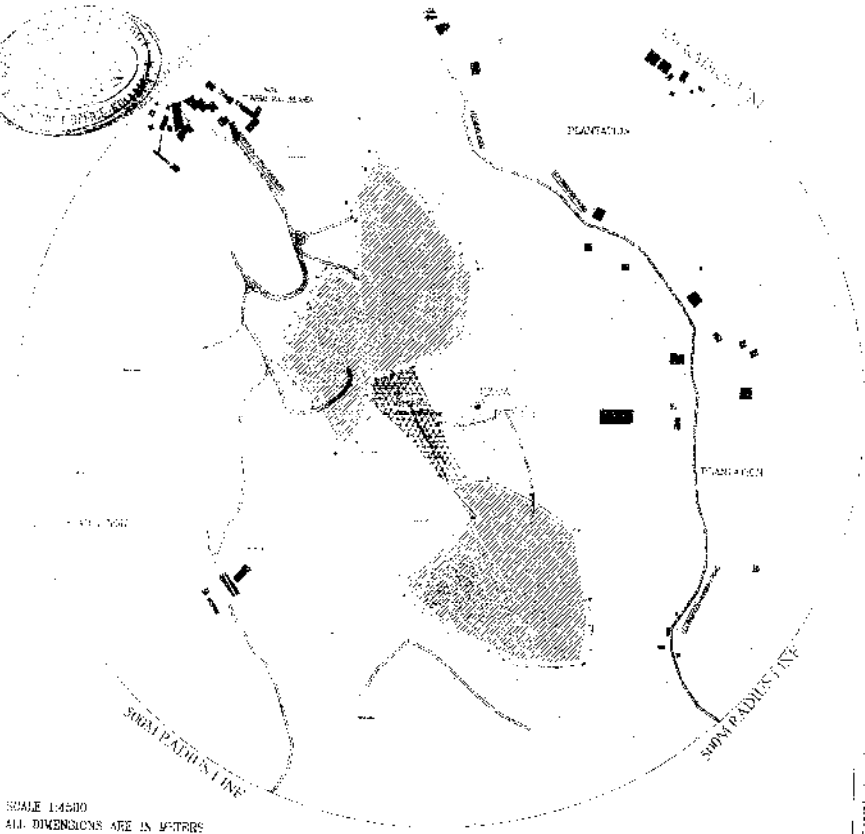
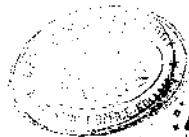
MUKESH SUROLIA
M.Sc. Geology,
Recognition as Qualified Person (QP)
(ROP No. -ROP/AJM/321/2016/14)
Indian Bureau of Mines &
Accredited Functional Area Expert in
Hydrology & Ground Water (H&G) and
Geology (GEO) from National Qualifications
Board for Education and Training (NQET),
Quality Council of India (QCI)

YEARWISE DEV. PLAN

- I YEAR DEV. PLAN
- II YEAR DEV. PLAN
- III YEAR DEV. PLAN
- IV YEAR DEV. PLAN
- V YEAR DEV. PLAN
- VI YEAR DEV. PLAN

Year	Bench	Production (MT)
I	110-85	5,01,557
II	85-80	5,01,557
III	80-75	5,01,557
IV	75-65	5,01,557
V	65-60	5,01,557
VI	60-40	5,01,557
Total		30,09,342





SCALE 1:4500
ALL DIMENSIONS ARE IN METRES

PLAN-DEC
PACIFIC SURVEYING & CONSULTING
ALABAMA LUMBER ASSOCIATION
MOBILE, ALABAMA
DATE: 12/1/11
PROJECT: 11-001
SHEET: 1 OF 1

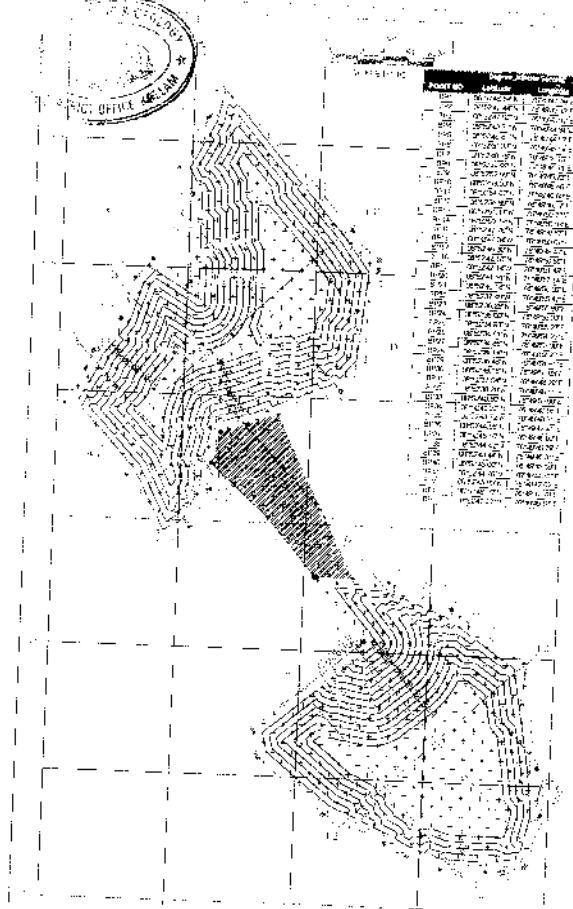
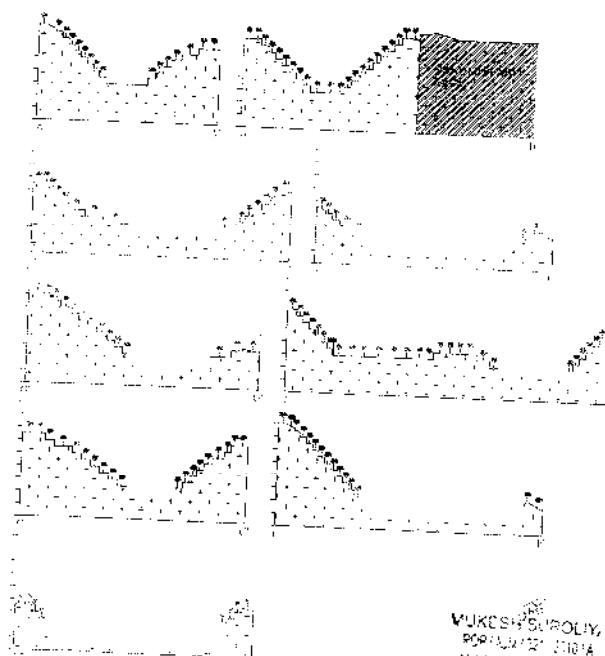
PROPOSED MINING AREA
7.5 M. BUFFER AREA
OVERALL PROPERTY LINE
EXPOSED ROCK
WATER TRENCH (DEVELOPMENT)
PLANTATION
CROWN ROAD (100' WIDE)

PROJECT	ALABAMA LUMBER ASSOCIATION
STATE	ALABAMA
COUNTY	MOBILE
TOWN	MOBILE
SECTION	36
RANGE	12
ZONE	12
SECTION	36

BOUNDARY POINTS WITH GPS COORDINATES

POINT	NORTHING	EASTING
1	1234567.89	123456.78
2	1234567.89	123456.78
3	1234567.89	123456.78
4	1234567.89	123456.78
5	1234567.89	123456.78
6	1234567.89	123456.78
7	1234567.89	123456.78
8	1234567.89	123456.78
9	1234567.89	123456.78
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11	1234567.89	123456.78
12	1234567.89	123456.78
13	1234567.89	123456.78
14	1234567.89	123456.78
15	1234567.89	123456.78
16	1234567.89	123456.78
17	1234567.89	123456.78
18	1234567.89	123456.78
19	1234567.89	123456.78
20	1234567.89	123456.78
21	1234567.89	123456.78
22	1234567.89	123456.78
23	1234567.89	123456.78
24	1234567.89	123456.78
25	1234567.89	123456.78
26	1234567.89	123456.78
27	1234567.89	123456.78
28	1234567.89	123456.78
29	1234567.89	123456.78
30	1234567.89	123456.78
31	1234567.89	123456.78
32	1234567.89	123456.78
33	1234567.89	123456.78
34	1234567.89	123456.78
35	1234567.89	123456.78
36	1234567.89	123456.78
37	1234567.89	123456.78
38	1234567.89	123456.78
39	1234567.89	123456.78
40	1234567.89	123456.78
41	1234567.89	123456.78
42	1234567.89	123456.78
43	1234567.89	123456.78
44	1234567.89	123456.78
45	1234567.89	123456.78
46	1234567.89	123456.78
47	1234567.89	123456.78
48	1234567.89	123456.78
49	1234567.89	123456.78
50	1234567.89	123456.78

LEGEND	
	PROPOSED MINING AREA
	7.5 M. BUFFER AREA
	NON-MINING AREA
	OVERALL PROPERTY LINE
	EXPOSED ROCK
	WATER TRENCH (DEVELOPMENT)
	PLANTATION
	CROWN ROAD (100' WIDE)

[illegible]

MIKE'S SUPPLY,
PORTLAND, OREGON
YAC-215 27-08 2001

IN 25%

☐ LEASING BUS, TRUCK, OR TRAILER

☒ RENTING MACH.

☐ TRANSPORTING

☐ STORAGE

☐ MAINTENANCE

☐ REPAIRS

☐ SUPPLIES

☐ OTHER

☐ TOTAL

☒ SUPPLYING SERVICE

7. 下列各句，有语病的一项是（ ）
 A. 在 2008 年 5 月 12 日汶川大地震发生后，全国人民都献出了自己的一份力量。
 B. 在 2008 年 5 月 12 日汶川大地震发生后，全国人民都献出了自己的一份力量。
 C. 在 2008 年 5 月 12 日汶川大地震发生后，全国人民都献出了自己的一份力量。
 D. 在 2008 年 5 月 12 日汶川大地震发生后，全国人民都献出了自己的一份力量。

SCALE
0 20 40 60 80 M
SCALE 1:2000

POINT NO	Latitude	Longitude
BP1	08°52'46.54"N	76°49'42.00"E
BP2	08°52'47.44"N	76°49'43.49"E
BP3	08°52'47.92"N	76°49'43.67"E
BP4	08°52'48.77"N	76°49'44.34"E
BP5	08°52'48.81"N	76°49'44.85"E
BP6	08°52'50.33"N	76°49'45.14"E
BP7	08°52'48.76"N	76°49'46.10"E
BP8	08°52'52.00"N	76°49'46.11"E
BP9	08°52'54.60"N	76°49'46.78"E
BP10	08°52'53.99"N	76°49'46.40"E
BP11	08°52'54.67"N	76°49'46.80"E
BP12	08°52'55.88"N	76°49'46.17"E
BP13	08°52'51.17"N	76°49'50.22"E
BP14	08°52'50.19"N	76°49'50.93"E
BP15	08°52'47.76"N	76°49'50.67"E
BP16	08°52'47.04"N	76°49'50.07"E
BP17	08°52'46.39"N	76°49'48.47"E
BP18	08°52'42.16"N	76°49'50.56"E
BP19	08°52'42.14"N	76°49'51.49"E
BP20	08°52'41.51"N	76°49'53.14"E
BP21	08°52'40.18"N	76°49'55.02"E
BP22	08°52'37.49"N	76°49'55.47"E
BP23	08°52'36.28"N	76°49'55.60"E
BP24	08°52'38.00"N	76°49'55.30"E
BP25	08°52'34.93"N	76°49'55.23"E
BP26	08°52'34.81"N	76°49'54.28"E
BP27	08°52'34.85"N	76°49'53.09"E
BP28	08°52'36.14"N	76°49'52.20"E
BP29	08°52'35.46"N	76°49'51.61"E
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BP34	08°52'42.22"N	76°49'50.56"E
BP35	08°52'43.72"N	76°49'48.31"E
BP36	08°52'44.55"N	76°49'47.41"E
BP37	08°52'45.10"N	76°49'46.82"E
BP38	08°52'43.42"N	76°49'46.79"E
BP39	08°52'43.44"N	76°49'46.31"E
BP40	08°52'43.00"N	76°49'45.80"E
BP41	08°52'44.76"N	76°49'44.62"E
BP42	08°52'45.90"N	76°49'47.02"E
BP43	08°52'46.10"N	76°49'47.70"E
BP44	08°52'42.22"N	76°49'49.63"E

TOP SOIL
OVERBUDEN
STORAGE AREA

PLATE No. 1

SURFACE RUNOFF DRAINAGE PLAN



INDEX

- LEASE BOUNDARY WITH FENCING
- GRANITE ROCK
- CONTOUR LINE
- SECTION LINE
- MINE SAFETY BARRIER LINE
- BOUNDARY PILLAR
- WORKING BLOCK
- RAIN WATER WASH
- BOUNDARY PILLAR
- WATER POND
- NON MINEABLE AREA
- PLOT BOUNDARY

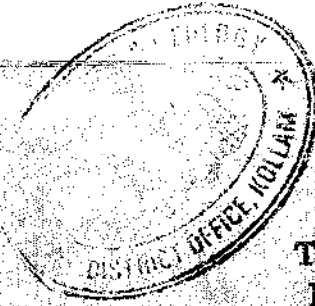
MUKESH SUROLIYA
RQP/AJM/321/2010/1A
Valid upto 28-09-2020

Project Name:- M/s Aiswarya Granite
Village :- Elamad
Taluk :- Kottarakkera
District :- Nollam
State :- Kerala
Plot area :- 8.0583 Ha.

MUKESH SUROLIYA,
M.Sc. Geology,
Recognition as Qualified Person (RQP),
(RQP No. -RQP/AJM/321/2010/1A)
Indian Bureau of Mines &
Accredited Functional Area (F.A.) of Soil
Hydrology & Ground Water (R/GW) and
Geology (GEO) from National Assessment
Board for Education and Training (NAET) &
Quality Council of India (QCI)



B5- 9071/16



Taluk Office, Kottarakkara
Dtd: 13-3-2018

Dist: Kollam

Ph: 0474 2454623

Fax: 0474 2454623, Pin: 691 506

Email: tahsildarktr@gmail.com

CERTIFICATE

Certified that the lands described below is under the absolute possession and enjoyment of Sri.A.M. Chackochan, Managing Partner, Aiswarya Granites, Arkkannoor PO, Elamad village in Kottarakkara Taluk of Kollam District.

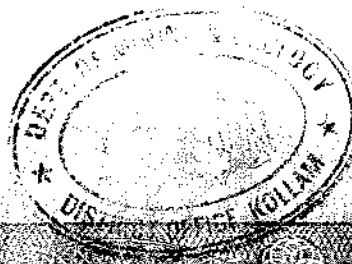
Village: Elamad

Sl.No	Block No	Resrvey	Area (Hectors)	Thandapper
1	27	117/7-2	00.3888	8129
2	27	117/7-3	00.3888	8129
3	27	117/5-2	00.4405	8130

This ceritificate is issued to be produce before SEIAA, Thiruvananthapuram



ANILKOMAR. B
TAHSILDAR
KOTTARAKKARA



40066/RE 100/10



केरल KERALA

A 200126

DEED OF PARTNERSHIP

THIS DEED OF PARTNERSHIP executed on the 4th day of May 2007
BETWEEN:

1. Mr. A.M. CHACKOCHEN, aged 45 years, Son of MATHAI residing at Puthusseril House, Aickarakonam, Kakkodu P.O. Punalur, Kollam (Dist.)
2. Mrs. MOLLY CHACKOCHEN, aged 43 years, Daughter of MATHAI residing at Puthusseril House, Aickarakonam, Kakkodu P.O. Punalur, Kollam (Dist.)
3. Mr. TINSON JOHN, aged 22 years, Son of Mr. A.M. CHACKOCHEN residing at Puthusseril House, Aickarakonam, Kakkodu P.O. Punalur, Kollam (Dist.)

AND

4. Mr. NICKSON JOHN, aged 20 years, Son of Mr. A.M. CHACKOCHEN residing at Puthusseril House, Aickarakonam, Kakkodu P.O. Punalur, Kollam (Dist.)

1. *[Signature]*

2. *[Signature]*

3. *[Signature]*

4. *[Signature]*

No 646
4.5.07

1000 പ്രാ. ചാക്കോച്ചൻ, മുളഭൂരിൽ വിഴ്, ചെങ്കരക്കോട്

മുഖ്യമന്ത്രി
ശ്രീ. നന്ദാകുമാർ



(Hereinafter called the first, second, third and fourth party respectively)

WHEREAS the parties here to have decided to form a 'PARTNERSHIP' firm to carry on the business of metal crusher and producing crusher metals, chips, crusher sand etc. and trading it under the name and style "AISHWARYA GRANITES"



NOW THIS DEED WITNESSES AS UNDER

1. The name of partnership firm shall be M/s "AISHWARYA GRANITES"
2. The partnership is effective from 4th day of May 2007.
3. The main object of the partnership shall be that of carrying on business of metal crusher unit producing crusher metals, chips, crusher sand etc. The firm may do any other business as may be agreed upon by the parties from time to time
4. The Capital of the Firm shall be such sum or sums as may be found credited from time to time. Interest at the rate of 18% per annum or such other rate as may be prescribed under section 40 (b) (iv) of the Income Tax Act 1961 or any other applicable provisions as may be in force for the relevant accounting period shall be payable by the partnership on the amount standing to the credit of the capital account, current account, loan and any other account of all partners.
5. It is here by agreed by and between the parties that the first party to this deed viz. Sri. A.M. CHACKOCHEN shall be the Managing Partner of the firm who shall be in charge of the overall affairs of the firm. He shall be entitled to do all such acts and things and that shall be competent to appoint, dismiss, fix and disburse salary, commission, allowances or remuneration of such employees, agents, commission agents and attorney as he considers necessary for the purpose of the business and shall be lawfully entitled to execute such documents, deeds, instruments, papers or agreement on behalf of the firm as he may consider proper or expedient in respect of the matters relating to the partnership. He shall also have power to file and defend suit etc. in connection with the business of the partnership and to represent before the state and central government authorities, local bodies, corporations and all other companies firms, concerns and private parties. The first party and the second party will individually operate the bank accounts. However all borrowings for the business shall be made with the concurrence of the other partners.

1

2

3

4



3:

6(i) It is hereby agreed by and between the parties that the first party will be the Managing Partner and the Second Party will be the Working Partner who are in charge of the overall affairs of the firm shall act as the working partners of the firm. The working partner shall be entitled for an yearly remuneration as follows:-

1. On the first Rs. 75,000/- of the book profit at the rate of 90% of the book profit
2. On the next Rs. 75,000/- of the book profit at the rate of 60%
3. On the balance of the book profit at the rate of 40%

(i) However in case of loss the working partners shall not be entitled for any remuneration.

(ii) It is hereby agreed that in any event the remuneration payable to the working partner should not exceed Rs. 1,00,000/- per annum.

(iii) The partners shall however be entitled to increase or decrease the remuneration payable to the working partner as and when the need arises by means of a written agreement.

(iv) *The partners shall be entitled to withdraw any amount during the year from the partnership towards the yearly remuneration, shall account from time to time as may be decided by the partners by mutual consent.

7. The Principle place of business shall be at ELAVUMMOODU, ARCHANNUR, KOLLAM (Dist.), but they may open office or offices, branch or branches at such other place or places as they may decide upon.

8. The Partnership is terminable at the will of the partners.

9. True and Proper Books of Accounts shall be maintained in respect of all transactions and Assets and Liabilities of the Partnership. The Books of Accounts of the firm shall be closed on the last day of March each year and a Profit and Loss Account and Balance Sheet shall be prepared.

1

2

K.M. mald

3

4



4.

10. The Net Profit/Loss after charging interest on Capital as per clause(4) and remuneration to Working Partners as per clause(6) shall be divided among the partners:

(1)	A.M.CHACKOCHEN	30 %
(2)	MOLLY CHACKOCHEN	30 %
(3)	TINSON JOHN	20 %
(4)	NICKSON JOHN	20 %

11. Any Party to this indenture desirous of retiring from the firm may do so by giving three months notice in writing to the other partners of his/her intention to leave the firm and the partner so retiring shall be entitled only to the balance to his capital and/or current account in the firm together with his/her share of profit or loss up to the date of retirement duly adjusted.
12. The death or retirement of any partner shall not operate as an automatic cessation of the firms business hither to carried on, but the business may be continued by the surviving or remaining partners or with one legal representative for each deceased partner on such terms and conditions as may be agreed upon. The amounts if any due to the deceased or the retiring partner shall be a debt due by the firm repayable with interest at 18% per annum.
13. Any dispute that may arise between the partners in respect of this partnership shall be resolved by the arbitration of one or more arbitrators nominated by the disputing partners whose decisions shall be final and binding in respect of all matters referred to him/them. The proceeding in arbitration shall be governed by the INDIAN ARBITRATION ACT 1940 and any statutory modification thereof.
14. No partner shall without the previous consent in writing of the other partners assign, transfer or mortgage his/her share of interest in the partnership or introduce any other person as partner with him/her therein.



15. The Partners shall have liberty to modify, alter, amend or delete any of the clause or clauses of this deed and also to add any more clauses as they may agree upon in writing from time to time.
16. In all other respects not expressly provided for in this deed the provisions of the INDIAN PARTNERSHIP ACT 1932 shall apply.

IN WITNESS WHEREOF the parties hereto have signed this deed on the 4th day of May 2007.

1. FIRST PARTY
2. SECOND PARTY
2. THIRD PARTY
4. FOURTH PARTY

[Signature]

K.M. mal

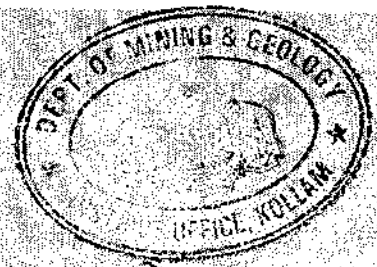
[Signature]

[Signature]

WITNESSES:

1.

2.



Extracts from the meeting of the partners of M/s Aiswarya Granites,
Elavamoodu held on 18th day of December 2009

"Resolved that Mr. Tinson John be hereby act as Managing partner of
M/s Aiswarya Granites" along with Mr. A.M Chackochen, Managing partner already held
the position as Managing partner. Mr. Tinson John will represent on behalf of M/s Aiswarya
Granites relating to legal, labour, explosives, mining and geology and governmental
representation matters from this day of 18th day of December 2009

1

Tinson John

2

K.M. Mody

3

Tyson

4

Dixon



2. കേരളം KERALA

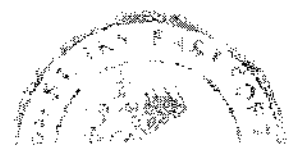


FORM A
(See Rule 5)
REGISTER OF FIRMS

(Maintained under Section 59 of the Indian Partnership Act, 1932)

1. Serial number of firm : 2055/07
2. Name of firm : AISIWARYA GRANITES
3. Date of registration : 03-11-2007
4. Duration of the firm : At will

Address	Date of change	Remarks
EGR-VII/70 ELAVUMMOODU ARKKANNOOR. P.O. AYER - 691 533 KOTTARAKKARA TALUK KOLLAM (DIST)		



No. 7409

02/07/2010

മതിയായ തുകയടയ്ക്കൽ

- 10.02.27

K. M. Viswambharan Nair

K. M. Viswambharan Nair
Vanchiyoor Stamp Vendor
Thiruvananthapuram



GOOGLE MAP - QUARRY SITE OF M/s AISWARYA GRANITES

UTM NO.	Degree, Minute Second Latitude	Longitude
1	00°52'05.53"N	76°49'42.90"E
2	00°52'07.43"N	76°49'43.40"E
3	00°52'09.33"N	76°49'43.90"E
4	00°52'11.23"N	76°49'44.40"E
5	00°52'13.13"N	76°49'44.90"E
6	00°52'15.03"N	76°49'45.40"E
7	00°52'16.93"N	76°49'45.90"E
8	00°52'18.83"N	76°49'46.40"E
9	00°52'20.73"N	76°49'46.90"E
10	00°52'22.63"N	76°49'47.40"E
11	00°52'24.53"N	76°49'47.90"E
12	00°52'26.43"N	76°49'48.40"E
13	00°52'28.33"N	76°49'48.90"E
14	00°52'30.23"N	76°49'49.40"E
15	00°52'32.13"N	76°49'49.90"E
16	00°52'34.03"N	76°49'50.40"E
17	00°52'35.93"N	76°49'50.90"E
18	00°52'37.83"N	76°49'51.40"E
19	00°52'39.73"N	76°49'51.90"E
20	00°52'41.63"N	76°49'52.40"E
21	00°52'43.53"N	76°49'52.90"E
22	00°52'45.43"N	76°49'53.40"E
23	00°52'47.33"N	76°49'53.90"E
24	00°52'49.23"N	76°49'54.40"E
25	00°52'51.13"N	76°49'54.90"E
26	00°52'53.03"N	76°49'55.40"E
27	00°52'54.93"N	76°49'55.90"E
28	00°52'56.83"N	76°49'56.40"E
29	00°52'58.73"N	76°49'56.90"E
30	00°53'00.63"N	76°49'57.40"E
31	00°53'02.53"N	76°49'57.90"E
32	00°53'04.43"N	76°49'58.40"E
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35	00°53'10.13"N	76°49'59.90"E
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37	00°53'13.93"N	76°50'00.90"E
38	00°53'15.83"N	76°50'01.40"E
39	00°53'17.73"N	76°50'01.90"E
40	00°53'19.63"N	76°50'02.40"E
41	00°53'21.53"N	76°50'02.90"E
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43	00°53'25.33"N	76°50'03.90"E
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47	00°53'32.93"N	76°50'05.90"E
48	00°53'34.83"N	76°50'06.40"E
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53	00°53'44.33"N	76°50'08.90"E
54	00°53'46.23"N	76°50'09.40"E
55	00°53'48.13"N	76°50'09.90"E
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64	00°54'05.23"N	76°50'14.40"E
65	00°54'07.13"N	76°50'14.90"E
66	00°54'09.03"N	76°50'15.40"E
67	00°54'10.93"N	76°50'15.90"E
68	00°54'12.83"N	76°50'16.40"E
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72	00°54'20.43"N	76°50'18.40"E
73	00°54'22.33"N	76°50'18.90"E
74	00°54'24.23"N	76°50'19.40"E
75	00°54'26.13"N	76°50'19.90"E
76	00°54'28.03"N	76°50'20.40"E
77	00°54'29.93"N	76°50'20.90"E
78	00°54'31.83"N	76°50'21.40"E
79	00°54'33.73"N	76°50'21.90"E
80	00°54'35.63"N	76°50'22.40"E
81	00°54'37.53"N	76°50'22.90"E
82	00°54'39.43"N	76°50'23.40"E
83	00°54'41.33"N	76°50'23.90"E
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85	00°54'45.13"N	76°50'24.90"E
86	00°54'47.03"N	76°50'25.40"E
87	00°54'48.93"N	76°50'25.90"E
88	00°54'50.83"N	76°50'26.40"E
89	00°54'52.73"N	76°50'26.90"E
90	00°54'54.63"N	76°50'27.40"E
91	00°54'56.53"N	76°50'27.90"E
92	00°54'58.43"N	76°50'28.40"E
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94	00°54'62.23"N	76°50'29.40"E
95	00°54'64.13"N	76°50'29.90"E
96	00°54'66.03"N	76°50'30.40"E
97	00°54'67.93"N	76°50'30.90"E
98	00°54'69.83"N	76°50'31.40"E
99	00°54'71.73"N	76°50'31.90"E
100	00°54'73.63"N	76°50'32.40"E

Image © 2018 DigitalGlobe
© 2018 Google

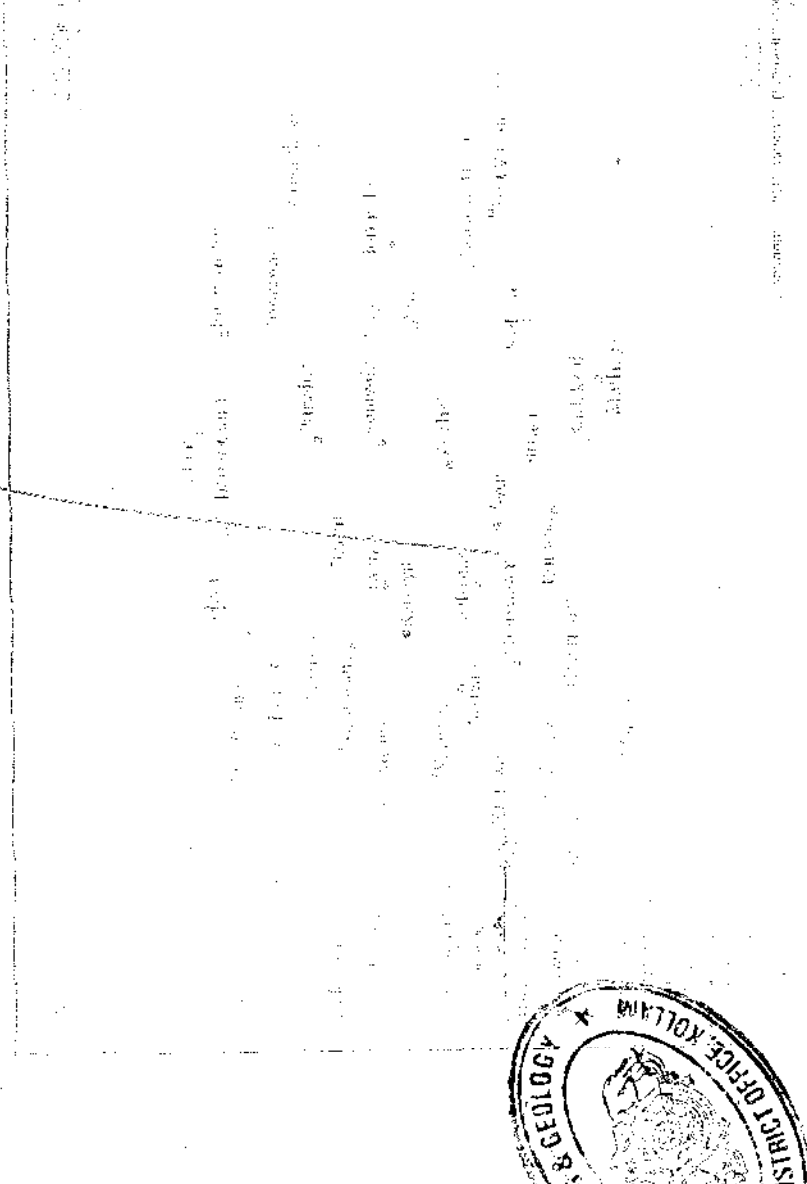
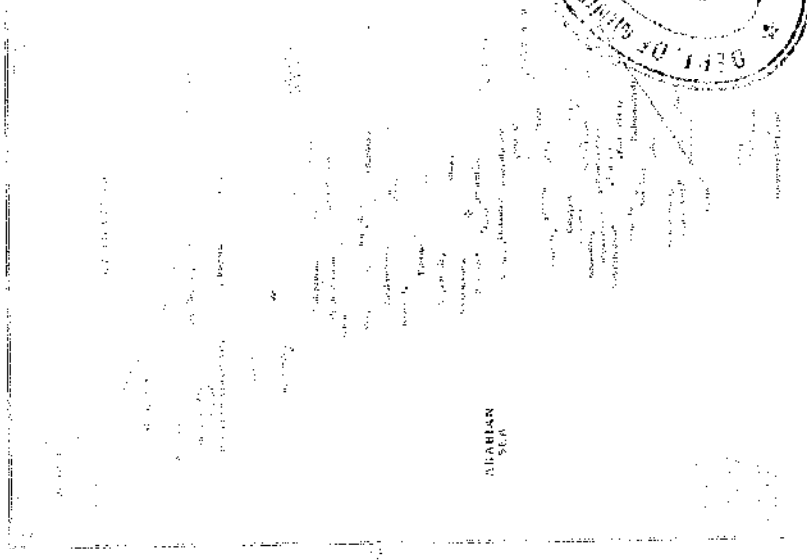
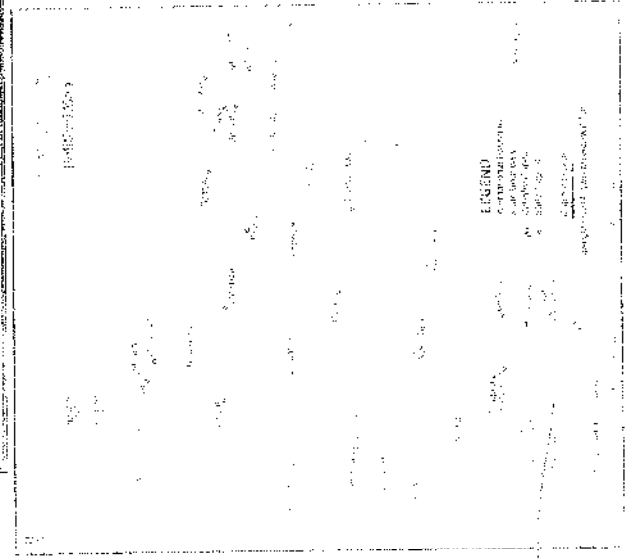
Google Earth

Imagery Date: 1/25/2016 3°52'44.56" N 76°49'48.30" E elev 117 m eye alt 1.22 km



Project Name:- M/s AISWARYA GRANITES
Village:- Elanad
Taluk:- Kollam
District:- Kollam
State:- Kerala
Pin code:- 686001

KEY MAP - QUARRY SITE OF M/s AISWARYA GRANITES





LIST OF ANNEXURES



പ്രതിസ്ഥാപനം: സാധാരണക്കാരന്റെ അവികാരം

ഭാരത സർക്കാർ

Unique Identification Authority of India

പ്രവേശനനമ്പർ / Enrollment No. : 2007/34532/00926

To
Chackochan A M
ചാക്കോച്ചൻ എം എം
S/O Mathai
PUTHUSSERIL
ARKANNUR
ARKANNIGOR P O
Eranad
Arkanur, Kollam
Kerala - 691533

20/01/2013



KL-125830806DF
12583080



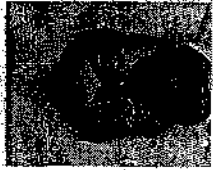
നിങ്ങളുടെ ആധാർ നമ്പർ / Your Aadhaar No. :

4079 7289 0726

ആധാർ - സാധാരണക്കാരന്റെ അവികാരം

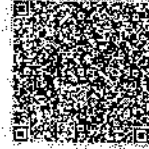


ചാക്കോച്ചൻ എം എം
Chackochan A M
പിതാവ്: മാതാവി
Father: MATHAI



ജനന വർഷം / Year of Birth: 1983
ലിംഗം: പുരുഷൻ / Male

4079 7289 0726



ആധാർ - സാധാരണക്കാരന്റെ അവികാരം



खनन योजना/खनन स्कीम तैयार करने हेतु
योग्य व्यक्ति के रूप में
मान्यता का प्रमाणपत्र

(खनिज रियायत नियमावली 1960 के नियम 22(सी) के अन्तर्गत)

श्री मुकेश सुरोलिया

वत्स श्री ममराज शर्मा निवासी 5, विजय बाड़ी, पथ सं-8, देहरा
का बालाजी, वार्ड सं-6 जयपुर जिला- जयपुर द्वारा अपनी
योग्यताओं और अनुभव का संतोषप्रद प्रमाण प्रस्तुत करने के फलस्वरूप खनिज
रियायत नियमावली, 1960 के नियम 22(सी) के अन्तर्गत उन्हें एतद्वारा खनन
योजना तैयार करने हेतु योग्य व्यक्ति के रूप में मान्यता प्रदान की जाती है।

उनका पंजीयन क्रमांक

RAP/AGM/321/2010/A

आरक्यूपी/अजम / 321 / 2010 / ए है।

यह मान्यता दिनांक 28 सितम्बर 2020 को समाप्त होने वाली दस

वर्षों की अवधि के लिये वैध है।

स्थान : अजमेर

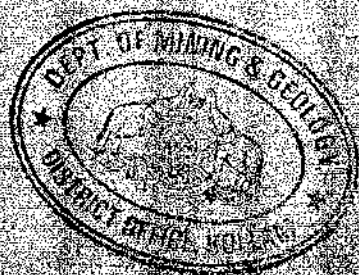
दिनांक : 29.09.20



क्षेत्रीय खान नियंत्रक

भारतीय खान ब्यूरो
क्षेत्रीय खान नियंत्रक
District Mining Officer & Manager
Kullam District

100000



100000



MINED OUT AREA

NO	SYNO	MINED OUT AREA	AREA (HA)
1	8	7478111	1.14
2	12	6767717	1.21

BOUNDARY PILLARS WITH
GPS COORDINATES

NO	SYNO	MINED OUT AREA	AREA (HA)
1	8	7478111	1.14
2	12	6767717	1.21

SYNO 121

PROPERTY DETAILS

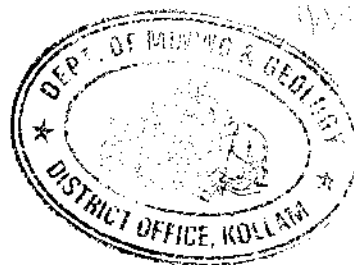
NO	SYNO	TOTAL AREA (HA)	STING AREA (HA)	DIFFER AREA (HA)	APPLIC AREA (HA)	VALUATE AREA (HA)	VALUATE AREA (HA)
1	8	24153	24153	18.33	3453	607612.18	607612.18
2	12	67677	67677	18.33	3453	607612.18	607612.18
3	12	67677	67677	18.33	3453	607612.18	607612.18
4	12	67677	67677	18.33	3453	607612.18	607612.18
5	12	67677	67677	18.33	3453	607612.18	607612.18
6	12	67677	67677	18.33	3453	607612.18	607612.18
7	12	67677	67677	18.33	3453	607612.18	607612.18
8	12	67677	67677	18.33	3453	607612.18	607612.18
9	12	67677	67677	18.33	3453	607612.18	607612.18
10	12	67677	67677	18.33	3453	607612.18	607612.18

SUBMITTED BEFORE
DEPT OF MINING & GEOLOGY

DATE: 12/12/2017
SIGNATURE:

OFFICE OF THE DISTRICT OFFICER

KOLLAM



TEST REPORT

Test Report No: SEEAL/1801/R424	Date: 25.01.2018	Page 1 of 1
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CUSTOMER DETAILS

Name & Address	M/s Aiswarya Granites Mr. A.M Chackochan Arakancor, Elayannamood, Kollam District
Customer Details	Survey No: 117,118,120
	Village: Elamad
	Panchayat: Elamad
	Taluk: Kottarakkott
	Dist: Kollam
	State: Kerala

Customer Reference: TIS Request Form Dated 18.01.2018

SAMPLE DETAILS

Source of sample	Ambient Sound Level
Location of Monitoring	Near South West side boundary
Date of Monitoring	18.01.2018

DAYTIME	REMARK	LEQ (dB)	TOTAL
06:00 Hrs	50.7 dB (A)	55.00 dB	50.7 dB (A)
07:00 Hrs	50.5 dB (A)	55.00 dB	50.5 dB (A)
08:00 Hrs	44.7 dB (A)	51.00 Hrs	44.7 dB (A)
09:00 Hrs	48.0 dB (A)	09:00 Hrs	48.0 dB (A)
10:00 Hrs	50.6 dB (A)	09:00 Hrs	50.6 dB (A)
11:00 Hrs	53.7 dB (A)	11:00 Hrs	53.7 dB (A)
12:00 Hrs	51.0 dB (A)	12:00 Hrs	51.0 dB (A)
13:00 Hrs	50.2 dB (A)	13:00 Hrs	50.2 dB (A)
14:00 Hrs	50.6 dB (A)	DUSK	
15:00 Hrs	51.0 dB (A)		
16:00 Hrs	52.1 dB (A)	Ambient Sound Level (Leq Daytime)	
17:00 Hrs	52.6 dB (A)		
18:00 Hrs	47.1 dB (A)	Ambient Sound Level (Leq Nighttime)	
19:00 Hrs	43.6 dB (A)		
20:00 Hrs	39.7 dB (A)		
21:00 Hrs	39.2 dB (A)		
22:00 Hrs	35.6 dB (A)		

End of Report

For and on behalf of
Standard Environmental & Analytical Laboratories

(Signature)

Authorized Signatory

Standard Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17023: 2005 & "A" Grade laboratory of KSPCB

Cj. Tower, Pathalam, Udyogamandal P.O., Ennakulam-686 501, Tel. 0464-2546660, 93 87 27 24 02, 90 20 67 24 02

Web: www.sealabs.in, E-mail: secateb@gmail.com, info@sealabs.in



Test Report No: SEAAL/1801/WA/R058

Date: 25.01.2018

Page 1 of 1

CUSTOMER DETAILS

Customer Details	Name & Address		M/s Aiswarya Granites Mr. A.M Chackochan Arakanoor, Elavummoode, Kollam District
	Survey No		117,118,120
Location of Site	Village		Elamad
	Panchayath		Elamad
	Taluk		Kottarakkara
	District		Kollam
	State		Kerala
Customer Reference	Test Request Form dated 18.01.2018		

SAMPLE DETAILS

Sample Code	SEAAL/1801/WA/S058	Sample Received On	19.01.2018
Sample Name	Water	Sampling Procedure	SEAAL/MSP/24
Sample Description	Open Well	Sampling Location	North East side boundary
Identification By Customer	---	Sample Condition	Good
Sampled On	18.01.2018	Test Started On	19.01.2018
Sampled By	Laboratory	Test Completed On	23.01.2018

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2012	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:1983 RA 2012	---	Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 10:1984 RA 2012	NTU	1.40	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2012	---	6.21	6.50 - 8.50
05	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2012	mg/L	72.0	500 (Max)
06	Total Hardness (as CaCO ₃)	IS 3025 Part 21:2009 RA 2014	mg/L	24.5	200 (Max)
07	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2014	mg/L	7.34	75.0 (Max)
08	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2014	mg/L	1.49	30.0 (Max)
09	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	9.73	250 (Max)
10	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23:1986 RA 2014	mg/L	17.9	200 (Max)
11	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.32	1.00 (Max)
12	Sulphate (SO ₄)	IS 3025 Part 24:1986 RA 2014	mg/L	18.1	200 (Max)
13	Total Coli form Bacteria	IS 1622:1981 RA 2014	---	Present/100ml	Absent/100 ml
14	E coli	IS 15185: 2016	---	Absent/100ml	Absent/100 ml

End of Report

For and on behalf of
Standard^s Environmental & Analytical Laboratories

Authorized Signatory

Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standard^s Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2005 & "A" Grade laboratory of KSPCB



TEST REPORT

Test Report No: SEAAL/1801/EN/R057	Date: 25.01.2018	Page 1 of 1
------------------------------------	------------------	-------------

CUSTOMER DETAILS

Customer Details	Name & Address	M/s Aiswarya Granites Mr. A.M Chackochan Arakanoor, Elavummoodi, Kollam District
	Survey No	117,118,120
	Village	Elamad
	Panchayath	Elamad
	Taluk	Kottarakkara
	District	Kollam
	State	Kerala
Customer Reference	Test Request form dated 18.01.2018	

SAMPLE DETAILS

Source of Sample	Ambient Air	Sample Code	SEAAL/1801/EN/S057
Location of Monitoring	Near South East side boundary	Sampled By	By Laboratory
Date of Monitoring	18.01.2018	Test Started On	19.01.2018
Sample Received On	19.01.2018	Test Completed On	22.01.2018
Humidity	58 %	Sampling Procedure	IS 5182 Part V & XIV

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2005 RA 2012	µg/m ³	49.9	100
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	21.3	60.0
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2012	µg/m ³	< 2.00	80.0
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2012	µg/m ³	< 2.00	80.0

End of Report

For and on behalf of
Standard^s Environmental & Analytical Laboratories

Authorized Signatory

Dejiv P.N.
Laboratory Head

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standard^s Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2005 & "A" Grade laboratory of KSPCB



**National Accreditation Board for
Testing and Calibration Laboratories**
(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

STANDARD^s ENVIRONMENTAL & ANALYTICAL LABORATORIES

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

'General Requirements for the Competence of Testing & Calibration Laboratories'

for its facilities at

**K. J. Tower, Pattalam, Jodiyamandal P. O.,
Uthadum District, Kerala**

in the field of

TESTING

Certificate Number **IC 0402**

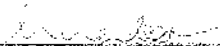
Issue Date **14/10/2017**

Valid Until **13/10/19**

This certificate remains valid for the scope of Accreditation as specified in the annex, subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

It does not confer any right to use the NABL logo or the word 'NABL' in any form of advertising.

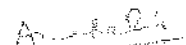
Signed for and on behalf of NABL



N. Venkateswaran
Program Director



+91763701000/8609714



Anil Raju
Chief Executive Officer



National Accreditation Board Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Standard Environmental & Analytical Laboratories, K. J. Tower,
Puthalam, Udyogamandal P. O., Ernakulam District, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5402 Page 8 of 25

Validity 14.10.2017 to 13.10.2019 Last Amended on 29.11.2017

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Micro-parasitology	ISFDA (BAM) Chapter 3 IS 5587 Part 6: 1976 (RA 2013)	Present or Absent / 2500
		Bacteriological	ISFDA (BAM) Chapter 3 IS 5587 Part 6: 1976 (RA 2013)	Present or Absent / 2500
		Parasitological	ISFDA (BAM) Chapter 3 IS 5587 Part 6: 1976 (RA 2013)	Present or Absent / 2500
		Microbiology	IS 15185: 2016 IS 15187: 2016 IS 5403: 1999 (RA 2013) IS 5587 Part 7: 1999 (RA 2013)	Present or Absent / 2500
		Microbiology	IS 5587 Part 5: 1974 (RA 2013)	Present or Absent / 2500
		Micro-parasitology	IS 5587 Part 6: 1976 (RA 2013)	Present or Absent / 2500
1.	Raw water, Bore well Water, Surface water, Potable/Drinking Water	Coliforms Faecal Coliforms E. coli Coliforms E. coli Salmonella spp. Yeast and Mould Shigella spp.	IS 1022: 1981 (RA 2014) IS 1022: 1981 (RA 2014) IS 1022: 1981 (RA 2014) IS 1022: 1981 (RA 2014) IS 1022: 1981 (RA 2014) IS 15185: 2016 IS 15187: 2016 IS 5403: 1999 (RA 2013) IS 5587 Part 7: 1999 (RA 2013)	< 1000 MPN/100ml < 1000 MPN/100ml < 1000 MPN/100ml < 1000 MPN/100ml < 1000 MPN/100ml < 1000 MPN/100ml < 1000 MPN/100ml < 1000 MPN/100ml < 1000 MPN/100ml
2.	Swimming Pool Water	Standard Plate Count	IS 3328: 1983 (RA 2014) Annexure A	< 1000 MPN/100ml
3.	Processed water	Total Coliform Standard Plate Count Coliforms	IS 1022: 1981 (RA 2014) IS 1022: 1981 (RA 2014) IS 1022: 1981 (RA 2014)	< 1000 MPN/100ml < 1000 MPN/100ml < 1000 MPN/100ml

Ruchi Guntuku
Convenor

N. Venkateswaran
Program Director



NABL

National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION



Laboratory Standard^s Environmental & Analytical Laboratories, K. J. Tower, Pathalam, Udyogamandal P. O., Ernakulam District, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number IC-5402 Page 9 of 25

Validity 14.10.2017 to 13.10.2019 Test Amended on 29.11.2017

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

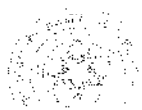
ATMOSPHERIC POLLUTION

Ambient Air Quality/Work Environment and Indoor Air Quality	Dispersed Particulate Matter	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	Permissible limit (10µm)	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	Particulate Matter (PM ₁₀)	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	PM _{2.5}	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	PM ₁₀ as NO ₂	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	PM ₁₀ as SO ₂	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	Ambient Air (NH ₃)	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	Hydrogen Sulphide	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	Carbon Monoxide as CO	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	Lead as Pb	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	Nickel as Ni	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³
	Arsenic as As	IS 5132 (Part 1) 1999 (RA 2014)	0.1 to 1000 µg/m ³

Ruchi Guntuku
Convenor

N. Venkateswarani
Program Director

LAB 0004



NABL

National Accreditation Board Testing and Calibration Laboratories

(A Government of India Undertaking)



SCOPE OF ACCREDITATION

Laboratory Standard Environmental & Analytical Laboratories, K. J. Tower,
Pathalam, Udyogamandal P. O., Ernakulam District, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5402

Page 10 of 25

Validity 14.10.2017 to 13.10.2018

Last Amended on 29.11.2017

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Stack Emission/ Process/Vent Emissions	Barium as SO ₂	IS 1521 (Part 1) 1994 (RA 2011)	40 mg/m ³ to 100 mg/m ³
		Benzene as H ₂	IS 1182 (Part 1) 1980 (RA 2011)	1.50 mg/m ³ to 50 mg/m ³
		Temperature	IS 11255 (Part 3) 2002	30 °C to 650 °C
		Velocity	IS 11255 (Part 3) 2002	1.0 m/s to 60 m/s
		Volume of air Discharged	IS 11255 (Part 3) 2002	100 m ³ /min to 40000 m ³ /min
		Humidity Meter	IS 11255 (Part 3) 2002 (RA 2011)	50 mg/m ³ to 1000 mg/m ³
		Sulphur Dioxide as SO ₂	IS 11255 (Part 3) 2002 (RA 2011)	3.0 mg/m ³ to 1500 mg/m ³
		Oxide of Nitrogen as NO _x	IS 11255 (Part 3) 2002 (RA 2011)	2.0 mg/m ³ to 100 mg/m ³
		Hydrogen Sulphide	IS 11255 (Part 3) 2002 (RA 2011)	2.0 mg/m ³ to 100 mg/m ³
		Ammonia	IS 11255 (Part 3) 2002 (RA 2011)	50 mg/m ³ to 400 mg/m ³
		Carbon Monoxide as CO	IS 11270 (Part 1) 2004 (RA 2011)	0.2 mg/m ³ to 5 mg/m ³
		Carbon Dioxide as CO ₂	IS 11270 (Part 1) 2004 (RA 2011)	0.2 mg/m ³ to 10 mg/m ³
		Oxygen as O ₂	IS 11270 (Part 1) 2004 (RA 2011)	0.2 mg/m ³ to 21 mg/m ³
3.	Noise Level Monitoring	Leq, Lmax, Lmin	IS 9986:1981 (RA 2006)	30 dBA to 130 dBA
4.	Illumination Monitoring	Illumination	Reference Method IS:AAI/SOP/11 Issue Date: 01/01/04/2017	0.5 to 2000 lux

Ruchi Guntuku
Convenor

N. Venkateswaran
Program Director



National Accreditation Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Standard Environmental & Analytical Laboratories, K. J. Tower,
Pathalam, Udyogamandal P. O., Ernakulam District, Kerala

Accreditation Standard ISO/IEC 17025: 2005

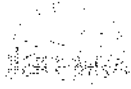
Certificate Number IC-5402 **Page 11 of 25**

Validity 14.10.2017 to 13.10.2019 **Last Amended on** 29.11.2017

Sl. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of testing / Limits of Detection
II.	WATER			
I.	Drinking water/ Surface Water/ Ground Water/ Water from Purifiers	Colour	IS 3025(Part 4) 1-27 (RA 2012)	0 to 500 pcu
		Turbidity	IS 3025(Part 4) 4-25 (RA 2012)	0 to 1000 NTU
		Temperature	IS 3025(Part 12) 1-38 (RA 2013)	0 to 50°C
		pH	IS 3025(Part 11) 1-603 (RA 2012)	1 to 14
		Conductivity	IS 3025(Part 14) 1-364 (RA 2013)	10 µs/cm to 10000 µs/cm
		Total Dissolved Solids (Drinking Water only, Total Dissolved Solids)	IS 3025(Part 16) 1-364 (RA 2013)	0 to 10000 mg/l
		Total Solids	IS 3025(Part 16) 1-364 (RA 2014)	0 mg/l to 10000 mg/l
		Total Hardness as CaCO ₃	IS 3025(Part 21) 2008(RA 2014)	0 mg/L to 2000 mg/L
		Calcium as Ca	IS 3025(Part 40) 1-364 (RA 2014)	0 mg/L to 1000 mg/L
		Magnesium as Mg	IS 3025(Part 46) 1-364 (RA 2014)	0 mg/L to 1000 mg/L
		Total Alkalinity as CaCO ₃	IS 3025(Part 23) 1-364 (RA 2014)	0 mg/L to 2000 mg/L
		Acidity as CaCO ₃	IS 3025(Part 22) 1-364 (RA 2014) APHA (23rd Edition, 2310-B) 2017	0 mg/L to 5000 mg/L

Ruchi Guntuku
Convener

N. Venkateswaran
Program Director



National Accreditation Board for Testing and Calibration Laboratories

(A Government of India Quality Control Authority)

SCOPE OF ACCREDITATION



Laboratory Standard⁸ Environmental & Analytical Laboratories, K. J. Tower,
Pathalam, Udyogamandal P. O., Ernakulam District, Kerala

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-5492

Page 12 of 25

Validity 14.10.2017 to 13.10.2019

Last Amended on: 29.11.2017

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
1		Phenol in water As a part of CWC	IS 3025 (Part 53) 1988 (RA 2014) APHA (23 rd Edition) 500 P B O 2017	1 mg/l to 500 mg/l
2		Chloride in water and soil	IS 3025 (Part 53) 2008 (RA 2014) APHA (23 rd Edition) 4500-Cl B 2017	1 mg/l to 100 mg/l
3		Hardness in water Indirectly as CaCO ₃	IS 3025 (Part 53) 1988 (RA 2014) APHA (23 rd Edition) 4500-Cl B 2017	1 mg/l to 100 mg/l
4		Dissolved Oxygen	IS 3025 (Part 53) 1988 (RA 2014)	1 mg/l to 100 mg/l
5		Ammonia Nitrogen	IS 3025 (Part 53) 1988 (RA 2014) APHA (23 rd Edition) 4500-NO ₃ B 2017	0.02 mg/l to 100 mg/l
6		Nitrate as NO ₃	IS 3025 (Part 53) 1988 (RA 2014) APHA (23 rd Edition) 4500-NO ₃ B 2017	0.02 mg/l to 100 mg/l
7		Nitrite as NO ₂	IS 3025 (Part 53) 1988 (RA 2014) APHA (23 rd Edition) 4500-NO ₂ B 2017	0.02 mg/l to 100 mg/l
8		Sulphate as SO ₄	IS 3025 (Part 53) 1988 (RA 2014)	1 mg/l to 500 mg/l
9		Iron as Fe	IS 3025 (Part 53) 2008 (RA 2014)	0.1 mg/l to 50 mg/l
10		Fluoride as F	IS 3025 (Part 53) 2008 (RA 2014) APHA (23 rd Edition) 4500-F B O 2017	0.1 mg/l to 20 mg/l
11		Silica as SiO ₂	IS 3025 (Part 53) 1988 (RA 2014) APHA (23 rd Edition)	0.1 mg/l to 100 mg/l

Ruchi
Ruchi Gantuku
Convener

N Venkateswaran
Program Director



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Standard^s Environmental & Analytical Laboratories, K. J. Tower,
Pathalam, Udyogamandal P. O., Ernakulam District, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5402 Page 13 of 25

Validity 14.10.2017 to 13.10.2019 Last Amended on 29.11.2017

Sl	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Disodium Phosphate (Na ₂ HPO ₄)	4500-SiO ₂ -C-17-2017 IS 3025(Part 37) 1966 (RA 2014) APHA (23 rd Edition) 4500-PH-17-2017	0.02 mg/L to 100 mg/L
		Total Phosphorus (P)	IS 3025(Part 37) 1966 (RA 2014) APHA (23 rd Edition) 4500-PH-17-2017	0.02 mg/L to 100 mg/L
		Phosphate (PO ₄) (as P)	APHA (23 rd Edition) 4500- PH-17-2017 IS 3025(Part 37) 1966 (RA 2014) APHA (23 rd Edition) 4500-PH-17-2017	0.02 mg/L to 100 mg/L
		Phosphate Compounds as Calcium	IS 3025(Part 37) 1966 (RA 2014) APHA (23 rd Edition) 4500- PH-17-2017	0.02 mg/L to 100 mg/L
		Lead as Pb	IS 3025(Part 37) 1966 (RA 2014) APHA (23 rd Edition) 3111-B-2017	0.02 mg/L to 10 mg/L
		Arsenic as As	IS 3025(Part 37) 1966 (RA 2014) APHA (23 rd Edition) 3111-B- 2017 APHA (23 rd Edition) 3120-B-2017	0.02 mg/L to 10 mg/L
		Nickel as Ni	IS 3025(Part 37) 1966 (RA 2014) APHA (23 rd Edition) 3111-B-2017	0.02 mg/L to 100 mg/L
		Manganese as Mn	IS 3025(Part 37) 1966 (RA 2014) APHA (23 rd Edition) 3111-B-2017	0.02 mg/L to 10 mg/L

Kuchil Guntuku
Convener

N. Venkateswaran
Program Director



National Accreditation Board for Testing and Calibration Laboratories
 (A Consultant Board of Quality Management India)



SCOPE OF ACCREDITATION

Laboratory Standard⁹ Environmental & Analytical Laboratories, K. J. Tower, Pathalam, Udyogamandal P. O., Ernakulam District, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number IC-5402

Validity 14.10.2017 to 13.10.2019

Page 14 of 25

Last Amended on 29.11.2017

Sl. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Units of Detection
1	Water for drinking	Water for drinking	IS 3025 (Part 1) 1980 (RA 2014) APHA (23 rd Edition) 3111-B: 2017	1 mg/L to 100 mg/L
	Manganese in water	Manganese in water	IS 3025 (Part 16) 1984 (RA 2014) APHA (23 rd Edition) 3111-B: 2017	1 mg/L to 10 mg/L
	Chloride in water	Chloride in water	IS 3025 (Part 14) 1980 (RA 2014) APHA (23 rd Edition) 3111-B: 2017	1 mg/L to 100 mg/L
	Cadmium in water	Cadmium in water	IS 3025 (Part 4) 1982 (RA 2014) APHA (23 rd Edition) 3111-B: 2017	0.01 mg/L to 0.5 mg/L
	Water Chlorine Residual	Water Chlorine Residual	IS 3025 (Part 12) 1980 (RA 2014) APHA (23 rd Edition) 3111-B: 2017	0.1 mg/L to 10 mg/L
2	Water for Construction Purpose	pH	IS 3025 (Part 17) 1985 (RA 2014) APHA (23 rd Edition) 4500-H ⁺ B: 2017	6.5 to 8.5
	Organic Solids	Organic Solids	IS 3025 (Part 16) 1984 (RA 2014)	1 mg/L to 1000 mg/L
	Inorganic Solids	Inorganic Solids	IS 3025 (Part 16) 1984 (RA 2014)	1 mg/L to 1000 mg/L
	Sulphate as SO ₄	Sulphate as SO ₄	IS 3025 (Part 24) 1983 (RA 2014) APHA (23 rd Edition) 4500-SO ₄ B: 2017	1 mg/L to 5000 mg/L
	Chloride as Cl	Chloride as Cl	IS 3025 (Part 32) 1982 (RA 2014) APHA (23 rd Edition)	1 mg/L to 1000 mg/L

Ruchi Guntuku
Convenor

N. Venkateswaran
Program Director



L12-48512/2017

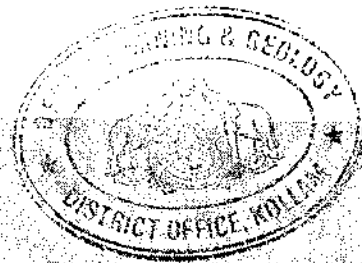
Collectorate, Kollam
dtd. 8-1-2018

NO OBJECTION CERTIFICATE

Sri. Tinson John, Managing Partner, Aiswarya Granites has requested for No Objection Certificate for taking quarrying lease for an extent of 03.46.83 Hectares of Puramboke land comprised in Re-Sy.No. 118 of Block No. 27 in Elamad village in Kottarakkara Taluk. Tahsildar, Kottarakkara vide his report No. B5-9070/16 dated 30.10.17, 08.11.17 & 18.11.17 has recommended to grant the No Objection Certificate for an extent of 02.94.20 hectares of Puramboke land only. After verification Deputy Collector (L.R) all so recommended to grant the NOC. I have perused GO(MS)No. No.150/2003/ Revenue dt. 23.04.2014 in which it is allowed to sanction lease period for extracting rock from revenue land up to 10 years.

In the above circumstances it is certified that there is no objection to run quarrying operations from an extent of 02.94.20 hectares (Excluding an extent of 00.52.63 Hectares from the applied area of 03.46.83 Hectares as Bufferzone) of Puramboke Land in Re-Sy No. 118, of Block No.27 in Elamad village for a period of 10 years sufficient to the deposit of rock from the date of issuing quarry lease under KMMC Rules 2015 to Sri. Tinson John, Managing Partner, Aiswarya Granites as per the survey plan appended and subject to the following terms and conditions.

1. Environmental clearance under SEIAA'S notification should be submitted to this office within 2 years of receipt of this NOC.
2. The quarry materials should be supplied to the General Public/Government works @ fixed by the Government/District Administration from time to time.
3. 40% of the quarry materials should be supplied as rubble.
4. The orders rules and regulations issued till date and may be issued in future by the Government of India, Government of Kerala, various Court and this office should be complied with.
5. The Royalty, dead rent, surface permit rent and other charges fixed by the competent authorities in time to time should be remitted to Government without raising any objection.
6. The quarrying operations can be started only after getting permit from the Mining and Geology Dept., NOC & Licence from Elamad Grama Panchayat and other relevant licence from competent authorities.
7. Any violation of the rules will lead to the cancellation of this certificate and the license obtained on the basis of this NOC.
8. Survey marks if any in the lease land should be protected. The violation of this will attract punishment as per the provisions in the Survey & Boundaries Act.
9. The quarrying should be limited to the area marked and allowed to the applicant.
10. Sprinklers shall be installed and used in the project cite to contain dust emission.
11. Barbed metal wire ferrying around mining area shall be provided with a height of not less than 5 feet.
12. Warning alarms indicating the time of blasting has to be arranged as per stipulation of explosive Dept. (to be done at Specific timings)
13. Access roads to the quarrying shall be tarred to contain dust emission that may arise during transportation of materials.
14. Over burden materials should be managed within the site and the old quarry if any should be reclaimed and stored. NO wet land, paddy land or water bodies shall be filled.
15. Benches should be maintained. Height of Benches should not exceed five meters and width should not be less than five meters.



16. Mats to reduce fly rock black to Maximum of 15 PDV should be provided
17. Mining depth should not exceed below the limit prescribed by government. Unless and otherwise specified or not below the level of nearest stream bed, whichever is less.
18. Acoustic enclosures should be provided to reduce sound amplification in additions to the provisions of green belt and hollow brick envelop for crushes so that the noise level is kept within prescribed standards given by the Pollution Control Board.
19. Eco-restoration including the mine closure plan shall be done at their own cost of NOC holder.
20. Garland draws to be proved in the lower slopes around the core area to channelize storm water.
21. An eco-restoration plan should be submitted to this office within one month from the date of receipt of their NOC and it should be fully implemented
22. The stipulations by statutory authorities under different act and notifications should be complied with, including the provisions of water (Prevention and Control of Pollution) Act 1974, the air (Prevention of Pollution) Act 1986, The Public liability (insurance)Act 1991 and the EIA notification 2006.
23. The quarrying operations should be started within two years from the date of this order with all relevant licensees and if there is any failure then the NOC will be automatically cancelled.
24. The owners should possess explosive licence (F22 licence) under Indian Explosives rules if he intended to do blasting operations. He should follow the conditions in the licence. The violation of the same will attract punishment as per provision of Act.
25. The permit holder should appoint a qualified blaster for suspending the blasting operations in the quarry as per rules 160 Mettalliferrous Mines Regulations Act 1961. if he uses explosive in Blasting Operations.
26. The NOC holder should not alienate the land allotted to any others and if any violation is noticed then the NOC will be cancelled.

The certificate is issued to produce before the Director, Mining & Geology Department, and the Members Secretary District Level Environment Impact Assessment Authority, Thiruvananthapuram.


District Collector,

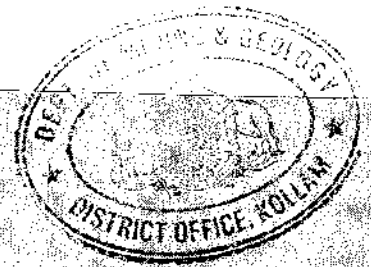
To,

Sri. Tinson John, Managing Partner, Aiswarya Granites.

Copy to:

1. Director of Mining and Geology Dept., TVM.
2. M/S, DEIAA, Kollam. (Sub Collector Kollam)
3. Geologist Kollam
4. Thasildar, Kottarakkara
5. Secretary, Elamad G.P
6. Village Officer Elamad
7. Stock file.





L12-48513/2017

Collectorate, Kollam
dtd. 8.1.2018

NO OBJECTION CERTIFICATE

Sri A.M. Chakochoan, Managing Partner, Aiswarya Granites has requested for No Objection Certificate for taking quarrying lease for an extent of 04.34.20 Hectares of Puramboke land comprised in Re-Sy.No. 120 of Block No. 27 in Elamad village in Kottarakkara Taluk, Tahsildar, Kottarakkara vide his report No. B5-9071/16 dated 30.10.17, 08.11.17 & 18.11.17 has recommended to grant the No Objection Certificate for an extent of 03.60.00 hectares of Puramboke land only. After verification Deputy Collector (L.R) also recommended to grant the NOC. I have perused GO(MS)No. No.150/2003/ Revenue dt. 23.04.2014 in which it is allowed to sanction lease period for extracting rock from revenue land up to 10 years.

In the above circumstances it is certified that there is no objection to run quarrying operations from an extent of 03.60.00 hectares (Excluding an extent of 00.74.20 Hectares from the applied area of 04.34.20 Hectares as Bufferzone) of Puramboke Land in Re-Sy No. 120, of Block No.27 in Elamad village for a period of 10 years sufficient to the deposit of rock from the date of issuing quarry lease under KMMC Rules 2015 to Sri A.M. Chakochoan, Managing Partner, Aiswarya Granites as per the survey plan appended and subject to the following terms and conditions.

5. Environmental clearance under SEIAA'S notification should be submitted to this office within 2 years of receipt of this NOC.
6. The quarry materials should be supplied to the General Public/Government works @ fixed by the Government/District Administration from time to time.
7. 40% of the quarry materials should be supplied as rubble.
8. The orders rules and regulations issued till date and may be issued in future by the Government of India, Government of Kerala, various Court and this office should be complied with.
5. The Royalty, dead rent, surface permit rent and other charges fixed by the competent authorities in time to time should be remitted to Government without raising any objection.
6. The quarrying operations can be started only after getting permit from the Mining and Geology Dept., NOC & Licence from Elamad Grama Panchayat and other relevant licence from competent authorities.
7. Any violation of the rules will lead to the cancellation of this certificate and the license obtained on the basis of this NOC.
8. Survey marks if any in the lease land should be protected. The violation of this will attract punishment as per the provisions in the Survey & Boundaries Act.
9. The quarrying should be limited to the area marked and allowed to the applicant.
10. Sprinklers shall be installed and used in the project site to contain dust emission.
11. Barbed metal wire fencing around mining area shall be provided with a height of not less than 5 feet.
12. Warning alarms indicating the time of blasting has to be arranged as per stipulation of explosive Dept. (to be done at Specific timings)
13. Access roads to the quarrying shall be tarred to contain dust emission that may arise during transportation of materials.
14. Over burden materials should be managed within the site and the old quarry if any should be reclaimed and stored. NO wet land, paddy land or water bodies shall be filled.
15. Benches should be maintained. Height of Benches should not exceed five meters and width should not be less than five meters.



16. Mats to reduce fly rock black to Maximum of 15 PDV should be provided
17. Mining depth should not exceed beyond the limit prescribed by government. Unless and otherwise specified or not below the level of nearest stream bed, whichever is less.
18. Acoustic enclosures should be provided to reduce sound amplification in additions to the provisions of green belt and hollow brick envelop for crushes so that the noise level is kept with in prescribed standards given by the Pollution Control Board.
19. Eco-restoration including the mine closure plan shall be done at their own cost of NOC holder.
20. Garland draws to be proved in the lower slopes around the core area to channelize storm water.
21. An eco-restoration plan should be submitted to this office within one month from the date of receipt of their NOC and it should be fully implemented
22. The stipulations by statutory authorities under different act and notifications should be complied with, including the provisions of water (Prevention and Control of Pollution) Act 1974, the air (Prevention of Pollution) Act 1986, The Public liability (insurance) Act 1991 and the EIA notification 2006.
23. The quarrying operations should be started within two years from the date of this order with all relevant licensees and if there is any failure then the NOC will be automatically cancelled.
24. The owners should possess explosive licence (F22 licence) under Indian Explosives rules if he intended to do blasting operations. He should follow the conditions in the licence. The violation of the same will attract punishment as per provision of Act.
25. The permit holder should appoint a qualified blaster for suspending the blasting operations in the quarry as per rules 160 Mettalliferrous Mines Regulations Act 1961. if he uses explosive in Blasting Operations.
26. The NOC holder should not alienate the land allotted to any others and if any violation is noticed then the NOC will be cancelled.

The certificate is issued to produce before the Director, Mining & Geology Department, and the Members Secretary District Level Environment Impact Assessment Authority, Thiruvananthapuram.


District Collector,

To,

Sri. A.M. Chakochan, Managing Partner, Aiswarya Granites.

Copy to:

1. Director of Mining and Geology Dept., Tvm.
2. M/S, DEIAA, Kollam (Sub Collector Kollam)
3. Geologist Kollam
4. Thasildar, Kottarakkara
5. Secretary, Elamad G.P
6. Village Officer Elamad
7. Stock file.



P3-17612/10

Office of the Inspector General of Registration,
Thiruvananthapuram, Dated 09-07-2010.

From

The Registrar of Firms
Thiruvananthapuram.

To

Molly Chackochan
Working Partner
Aiswarya Granites
Elavinmoodu
Karalikonam
Arkanoor, P.O.
Ayoor- 691 533.



Sir,

Sub : Request for granting true extract of the Firm
No. 2055/2007.

Ref : Your application dated 07-07-2010.

.....

With reference to the above, I am forwarding herewith the true extract of the
Firm No. 2055/2007.

Yours faithfully,



6. Partners

Name of the Partners	Addresses	Date of		Remarks
		Joining	Ceasing	
1. A.M. Chackochen S/o. Sri. Mathai	Puthusseril House Aickarakoram Kakkodu, P.O. Punatur - 691 331 Kollam (Dist)	04-05-2007		
2. Molly Chackochen D/o. Mathai	- do -	04-05-2007		
3. Tinson John S/o. Sri. A.M. Chackochen	- do -	04-05-2007		
4. Nickson S/o. Sri. A.M. Chackochen	- do -	04-05-2007		



7. Principal place of business and changes therein

Particulars regarding the place	Date of change	Remarks
EGP-VII-70 Elayummoodu Arakkannoor, P.O. Ayur - 691 533 Kottarakkara Taluk Kollam (Dist)		

8. Other place of business

Name of the place	Date of		Remarks
	Opening	Ceasing	
Nil			

Name of firm

AISHWARYA GRANITES

Serial number of the document	Description of the document	Date of filing	Signature of Registrar
1/07	Statement under Section 58 (1) of the EP. Act 1932.	03-11-2007	Sd/- Registrar of Firms

" True Copy "

Typed by : H.K. Santhosh Kumar

Compared by : 1. Reader

Hema V.R. Rhee

2. Examiner

Geejo Varghese

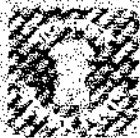
Thiruvananthapuram,
09-07-2010.

REGISTRAR OF FIRMS

आयकर विभाग
INCOME TAX DEPARTMENT
AISWARYA GRANITES



भारत सरकार
GOVT. OF INDIA



04/05/2007

Permanent Account Number

AAPFA367M

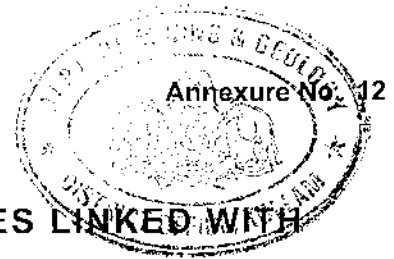
17120006



इस कार्ड के खोलने / पाने पर कृपया सुरक्षित रहें / ध्यान दें
आयकर की सेवा सुझाई, एन एस डी एल
पडली मण्डल, टाईम्स टॉवर, कन्नडा मिडल कॉम्पाउंड,
एस. बी. मार्ग, लोजर पोल, मुम्बई - 400 013.

If this card is lost / someone's lost card is found
please inform / return to
National Tax PAN Services Unit NSDU
1st Floor, Times Tower,
Kannada Middle Compound,
S. B. Marg, Lohar Pore, Mumbai - 400 013.

Tel: 91-22-22000000 / 22000001
E-mail: nstpan@nsdu.gov.in



**STUDY REPORT ON SPECIFIC CSR ACTIVITIES LINKED WITH
THE PRESENT PROJECT SPECIFICALLY SHOWING THE
BUDGET ALLOCATION AND THE AREA / INSTITUTIONS TO
WHICH THE ASSISTANCE WILL BE EXTENDED**

**QUARRY OF
M/s AISWARYA GRANITES**

AT

**Sy. No. 118 (pt.), 117/7-2, 117/7-3, 117/5-2, 120,
Elamad Village, Kottarakara Taluk,
Kollam District, Kerala.**



INTRODUCTION

To identify the needs of the nearby community to the project site, a community need assessment study was carried out in Elamadu Gram Panchayat. The main purpose of the study was to assist M/s AISWARYA GRANITES in delivering their Corporate Social Responsibility (CSR). As per the guidelines of *Company's Act (Amendment) 2013*, the study was mainly focused on the following areas.

1. PROMOTION OF QUALITY EDUCATION
2. HEALTH CARE
3. COMMUNITY DEVELOPMENT and
4. ENVIRONMENTAL SUSTAINABILITY

Approach adopted

To conduct the study, primary and secondary data were used.

Primary Data: Stake holder interviews, unstructured interview, field observation, and telephonic survey.

Secondary data: Yearly Project Document and Development Charter of the Panchayat.

Elamadu Gram Panchayat

Elamadu is a rural community. The Panchayat is blessed with beautiful landscape; agriculture is back bone of its economy. The deposit of granite is observed in south and North eastern side of the Gram Panchayat.

Panchayat at a glance

Name of the Panchayat	Elamadu Gram Panchayat
Geographical area	3016 ha.
Number of wards	17
Block	Chadayamangalam
Village	Elamadu
District	Kollam



Boundary	North – Ummanoor Gram Panchayat South – Velinalloore Gram Panchayat West – Edamulackal Gram Panchayat East – Pooyappally Gram Panchayat
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Demography

Total Population	27,248
Male	12,783
Female	14,465
Density of Population	879
Ratio	1000:1099

Identified Corporate Social Responsibility

The Socio - Economic expert conducted need assessment study in Elamadu Gram Panchayat and identified Corporate Social Responsibility (CSR) for the M/s Aiswarya Granites. The identified CSR activities are given below.

EDUCATION

A. 250 children are studying in Seethi Sahib Memmorial Public School, Karalikonam. The project can support the school to improve its facilities.

Particulars	Amount (in Rs.)	Total (in Rs.)	Type of Expense
Desks	Rs.1,000 x 10 Desks	10,000	Non Recurring
Roofing for urinal block	Lump sum	50,000	Non Recurring
Computers with speakers	Lump sum	30,000	Non Recurring
Total		90,000	

To develop the infrastructure facilities and extracurricular activities of children, the project can support the school.



B. The project will start a sponsorship and scholarship programme for children from economically back ward families.

Particulars	Amount (in Rs.)	Total (in Rs.)	Type of Expense
Scholarship for professional course	Rs.15,000 x 5 students	75,000	Recurring
School kit for 50 children (Bag, books, umbrella, etc.)	Rs.1,000 x 70 students	70,000	Recurring
Total		1,45,000	

HEALTH

A. To reduce the financial burden of people who suffering from chronic diseases, the project can provide treatment support to the deserving families.

Particulars	Total (in Rs.)	Type of Expense
To medicine, water & air beds, wheelchair etc.	1,50,000	Non Recurring
Total	1,50,000	

B. The project can support patients those who have chronic ill and taking prolonged medication.

Particulars	Amount (in Rs.)	Total (in Rs.)	Type of Expense
Chronic ill patients	Rs. 40,000 x 5 patients	2,00,000	Non Recurring
Medical help	Rs.500 x 10 x 12 months	60,000	Non Recurring
Total		2,60,000	

COMMUNITY DEVELOPMENT

A. The project can support to complete the work of houses and toilets of economically back ward families in the Panchayat.

Particulars	Amount (in Rs.)	Total (in Rs.)	Type of Expense
For construction and maintence of Houses	Rs.50,000 x 2 houses	1,00,000	Recurring



Construction and maintenance of Toilets	Rs. 10,000 x 5 toilets	50,000	Recurring
Total		1,50,000	

B. The project can provide crusher products to the Gram Panchayat to construct and maintain roads.

Particulars	Total (in Rs.)	Type of Expense
Crusher Products for construction and maintenance of roads	1,05,000	Recurring
Total	1,05,000	

ENVIRONMENTAL SUSTAINABILITY

A. To enhance the ground water table, the project can introduce well recharge by rain water harvesting in the region of water scarcity. The same will be done in consultation & association with Gram Panchayat.

Particulars	Basis of Calculation	Total (in Rs.)	Type of Expense
Well recharge	Rs. 10,000 x 10 wells	1,00,000	Recurring
Total		1,00,000	

SUMMARY

Sl. No	Areas of Intervention	No. of Intervention	Recurring Expenses (in Rs.)	Non Recurring Expenses (in Rs.)
1	Education	2	1,45,000	90,000
2	Health	2	Nil	4,10,000
3	Community Development	2	2,55,000	Nil
4	Environmental sustainability	1	1,00,000	Nil
	Total	7	5,00,000	5,00,000

First year production proposal for this
mine plan is approved

Bil
2/4/18

RECEIVED
DEPT. OF MINING & GEOLOGY
KOLKATA
No. 100-691052

