

**AGENDA FOR THE 53<sup>rd</sup> SEAC MEETING**  
**ON 25<sup>th</sup> & 26<sup>th</sup>, FEBRUARY, 2016**

**Time: 9.30 am**

**Venue: Harithasree Hall,  
Pallimukku**

Agenda Items	Name of the project	Page No.
<b><u>Day -1 (25.02.2016)</u></b>		
<b>53.00</b>	General Discussion including approval of minutes of the 52 <sup>nd</sup> meeting held on 8 – 9/02/2016.	
<b>53.01</b>	Request from Mr. T.V. Eliyas, Managing Partner, M/s Krishnagiri Stone Crusher to reconsider the decision of rejection of EC (File No. 159/SEIAA/KL/3488/2014)	<b>5-8</b>
<b>53.02</b>	Environmental clearance for the proposed quarry project in Sy. Nos. 271/1-2, 271/1-3, 271/1-6, 271/1-10, 271/1-11, 271/1-4, 271/8-2, 271/8-1, 271/20 pt., 270/4-1, 270/4, 270/3 and 270/2 at Pallichal Village and Panchayath, Neyyattinkara Taluk, Trivandrum District, Kerala by M/s V.S.C. Hollow Blocks & Crusher Division (File No. 163/SEIAA/KL/3493/2013)	<b>9-10</b>
<b>53.03</b>	Environmental clearance for the Oceanarium and Marine Biological Research Centre project in Sy. No. 238/4 at Puthuvypeen Village, Kochi Taluk, Ernakulam District, Kerala by State Fisheries Resource Management Society (FIRMA) (File No. 326/SEIAA/KL/2001/2014)	<b>11-12</b>
<b>53.04</b>	Environmental clearance for Housing Project (Sobha Rio Vista) in Sy. Nos. 159/28B (p) at Calicut, Feroke Petta (Chandhakadavu), Feroke Village and Panchayath, Kozhikode Taluk, Kozhikode District, Kerala by M/s Sobha Developers Ltd. (File No. 371/SEIAA/KL/2611/2014)	<b>13-14</b>
<b>53.05</b>	Environmental clearance for the quarry project in Sy. Nos. 247/1-1, 247/10, 247/11-2 and 247/11-3 at Ayyampuzha Village & Panchayath, Aluva Taluk, Ernakulam District, Kerala by M/s Pynadath Stone Quarry (File No. 430/SEIAA/KL/2990/2014).	<b>15-17</b>
<b>53.06</b>	Environmental clearance for the granite building stone quarry project in Survey Nos. 253/2, 253/4-1, 253/4-2, 253/4-3, 253/4-4, 254/2, 255/7, 252/5, 252/6 and 252/7 at Rayamangalam Village, Kunnathunadu Taluk, Ernakulam District, Kerala by M/s Pavan Quarry and Aggregates Pvt. Ltd. (File No. 470/SEIAA/KL/3214/2014).	<b>18-19</b>

<b>53.07</b>	Environmental clearance for the quarry project in Sy. No. 320/2, 320/3 at Aikaranadu north Village, Kunnathunadu Taluk, Ernakulam District, Kerala by Sri. Joseph John for M/s Slabs Aggregates. (File No. 519/SEIAA/KL/3823/2014)	<b>20-23</b>
<b>53.08</b>	Environmental clearance for the quarry project in survey No. 567/1-2, 567/2B2, 568/1-1, 568/2-2, 569/1-3, 569/1-5, 567/2A, 567/2B1, Thirumarady Village & Panchayat, Muvattupuzha Taluk, Ernakulam District, Kerala by Sri. Nizamudheen K.S. for the quarry project (File No. 538/SEIAA/EC3/3881/2014)	<b>24-26</b>
<b>53.09</b>	Environmental clearance for the quarry project in Sy. No. 274/2,3,1-2, 273/1-2,1-3,2,3, 282/1,2 at Mazhuvannoor, Village, Kunnathunad Taluk, Ernakulam District, Kerala by Sri. V. N. Pavithran (Owner), M/s Megha Granites (File No. 542/SEIAA/KL/3886/2014)	<b>27-29</b>
<b>53.10</b>	Environmental clearance for the quarry project in Sy. No. 164/2, 164/1-36, 164/1-111 and 164/1-113 at Ayyampuzha Village, Aluva Taluk, Ernakulam District, Kerala by Sri. Paulson P. Varkey – Managing Partner, Ernakulam Dist For MP Sands (File No. 560/SEIAA/KL/4121/2014)	<b>30-32</b>
<b>53.11</b>	Environmental clearance for the quarry project in Sy. Nos. 138/7-2, 137/11, 139/11, 139/6, 138/8, 138/4, 139/3, 139/7-1, 139/7, 139/10, 137/12-2, 137/3, 137/7, 137/9, 137/12-1 at Ezhumattoor Village & Panchayath, Mallappally Taluk, Pathanamthitta District, Kerala by Sri. S. Raveendran (File No. 602/SEIAA/EC4/4629/2014)	<b>33-34</b>
<b>53.12</b>	Environmental clearance for the quarry project in Sy. Nos. 364/16/40, 364/10/42, 364/11/43, 364/16/11, 364/16/27, 364/16/25, 364/16/32, 364/16/8, 364/16/37, 364/16/48, 364/17/18, 364/17/16, 364/16/4/30, 364/16/5/5, 364/16/6/6, 364/16/7/7, 364/16/8/34, 364/16/9/38, 364/21/22P and 364/21P at Mulayam Village, Nadathara Panchayath, Thrissur Taluk & District by Sri. Jenny John, Managing Director, M/s Valakkavu Granite Pvt. Ltd., Vattappara, Valakkavu (Via.), P.O., Mulayam, Thrissur - 680751. (File No. 608/SEIAA/EC1/4635/2014).	<b>35-36</b>
<b>53.13</b>	Environmental clearance for the building stone quarry project in Sy. Nos. 781/1-16, 781/1-21-126, 781/1-22, 781/1-26Pt, 781/1-28-D2, 781/1-28-20, 781/1-28-22, 781/1-28-24, 781/1-30 and 781/32 at Athikayam Village, Ranni Taluk, Pathanamthitta District, Kerala by Sri. Kuriakose Sabu (File No. 621/SEIAA/EC4/4775/2014)	<b>37-38</b>
<b>53.14</b>	Environmental clearance for the quarry project in Sy. No. 404/2(part), 412/2, 4(part) at Kummil village, Kottarakara Taluk, Kollam District, Kerala Sri. M. K. Biju, Karthika, Kottarakara (taluk), Kollam for M/s. Karthika Granite Quarry, Kallutheri (File No. 635/SEIAA/KL/4906/2014)	<b>39-41</b>

<b>53.15</b>	Environmental clearance for the quarry project in Sy. No. 158/6, 158/12-2, 158/5, 158/11, 161/1 at Ittiva Village, Kottarakkara Taluk, Kollam District, Kerala by M. K. Biju, Kadakkal , Kottarakara, Kollam Dist for M/s Karthika Granites (File No. 637/SEIAA/KL/4908/2014)	<b>42-44</b>
<b>53.16</b>	Environmental clearance for the quarry project in Sy. No. 432/3(part), 432/4 at Kummil village, Kottarakara Taluk, Kollam District, Kerala Sri. M. K. Biju, Karthika, Kottarakara (taluk), Kollam for M/s. Karthika Granite Quarry, Cherukara (File No. 638/SEIAA/KL/4909/2014)	<b>45-47</b>
<b><u>Day -2 (26.02.2016)</u></b>		
<b>53.17</b>	Environmental clearance for the quarry project in Sy. Nos. 137/10 (p), 85/1, 85/2(p) and 84/5 (p) at Valmboor Village, Perinthalmanna Taluk, Malappuram District, Kerala by Sri. P. Abdul Nassar for M/s. Valmboor Granites. (File No. 756/SEIAA/KL/331/2015).	<b>48-50</b>
<b>53.18</b>	Environmental clearance for the quarry project in Sy. No. 3/1-1, 1-2, 1-3 at Mookkannoor village, Aluva Taluk, Ernakulam District, Kerala by Sri. Shaju P.V. – Managing Partner, M/s. Palissery Granites, Ernakulam District for M/s. Palissery Granites (File No. 673/SEIAA/KL/5352/2014)	<b>51-53</b>
<b>53.19</b>	Environmental clearance for the quarry project in Sy. No. 261/5-2, 261/6-2, 262/3-4, 261/6-4, 261/5-3, 260/8, 260/5-2, 262/1-3, 262/1-4, 260/11, 260/10, 260/3-2, 260/7-3, 260/9-2, 259/8, 259/3-2, 259/1-2, 64/1-176, Ayyampuzha Village, Aluva Taluk, Ernakulam District, Kerala by Sri.. P. J. Jacob, Managing Director, Ernakulam District for Angel Granites And Crushers Private Limited. (File No. 690/SEIAA/KL/5642/2014)	<b>54-56</b>
<b>53.20</b>	Environmental clearance for the quarry project in Sy. No. 324/4(P), 324/5(P) & 325/15(P), Pattimattom Village, Kunnathunadu Taluk, Ernakulam, for M/s. Cement Bricks & Allied Industries and 317/2, 317/4 & 324/5(P) Pattimattom Village, Kunnathunadu Taluk, Ernakulam, for M/s. Kizhakkambalam Granites Kerala by Sri. Paul Varghese, M/s. Cement Bricks & Allied Industries / M/s. Kizhakkambalam Granites (File No. 724/SEIAA/KL/6074/2014)	<b>57-59</b>
<b>53.21</b>	Environmental clearance for proposed Govt. Medical College Idukki in Sy. Nos. 161/1 in Cheruthoni of Idukki Village, Vayathope Panchayath, Thodupuzha Taluk, Idukki District, Kerala of Dr. PGR Pillai, Special Officer for new Medical Colleges, Government of Kerala. (File No. 748/SEIAA/KL/221/2014)	<b>60-61</b>
<b>53.22</b>	Environmental clearance for the quarry project in Sy. No. 328/2-1, 2-2, 3,6, 326/1-2,1-1,2, 325/2,4,5, 301/34,37 Chadayamangalam village, Kottarakkara (Taluk), Kollam district, Kerala by Sri. Shaji S.,	<b>62-64</b>

	M/s Shah Quarry (File No. 752/SEIAA/KL/301/2015)65-67	
<b>53.23</b>	Environmental clearance for the quarry project in Sy. No. 164/1-35, 164/1-28, 164/1-45, 164/1-44, 164/1-41 Ayyampuzha village, Aluva (taluk), Ernakulam district, Kerala by Sri. Joji P.L., M/s. Star Granites (File No. 761/SEIAA/KL/438/2015)	<b>65-67</b>
<b>53.24</b>	Environmental clearance for the building stone quarry project in Sy. No. Sy. No. 249, 249/1, 249/2, at Kondoor Village-, Meenachil Taluk, Kottayam District- by Sri. M.K. Rasheed (File No. 793/SEIAA/EC4/1851/2015)	<b>68-69</b>
<b>53.25</b>	Environmental clearance for the quarry project in Sy. No. 307/3 & 308/15 at Malayattoor Village, Malayattoor Neeleswaram Grama Panchayath, Aluva Taluk, Ernakulam District, Kerala for M/s Fathima Granites by Sri. Ashique Ali .A, Proprietor (File No. 807/SEIAA/EC3/2238/2015)	<b>70-72</b>
<b>53.26</b>	Environmental clearance for proposed Government Medical College at Sy.No.643 at IravanVillage, Kozhencherry Taluk, Aruvapulam Panchayat, Pathanamthitta District, Kerala by Sri. Dr. P.G.R Pillai M.S (File No. 810.A/SEIAA/EC4/2373/2015)	<b>73-74</b>
<b>53.27</b>	Environmental clearance for the quarry project in Sy. Nos. 182/1, 184/1, 185/2 and 186/5 at Nediyruppu Village &Panchayath, KondottyTaluk, Malappuram District by Sri. K.M. Koyamu, Managing Partner, M/s Chirayil Granite Industries. (File No. 814/SEIAA/EC1/2485/2015).	<b>75-80</b>
<b>53.28</b>	Environmental clearance for the quarry project in Survey. No. 8/9,at Alakkodu Village, Thodupuzha Taluk, Idukki District, Kerala by Mr.U.I. John,Managing Partner,M/s Marthoma Granites (File No. 817/EC3/2489/SEIAA /2015)	<b>81</b>
<b>53.29</b>	Environmental clearance for the quarry project in Sy. No. 97/1(p), 97/2(p) & 97/4(p) at Malayattoor Village, Malayattoor Neeleswaram Grama Panchayath, Aluva Taluk, Ernakulam District, Kerala by Sri. Manoj Antony for M/s. Surya Rock Product (File No. 821/SEIAA/EC3/2546/2015)	<b>82-85</b>
<b>53.30</b>	Environmental clearance for Proposed building Application For Prior Environment Clearance For Life Science Park At Thonnakkal in Sy. No. 187, 188, 192 in Veiloor Village, Thiruvananthapuram Taluk, Thiruvananthapuram District (File No. 851/SEIAA/ECI/2967/2015)	<b>86-87</b>
<b>53.31</b>	Environmental clearance for the Proposed – M/s Valorangal Building Stone quarry project in Re. Survey. No. 6/1 of Vettilappara Village, Eranad Taluk, Malappuram District, Kerala by Sri. Hisham, E. C. for Building Stone Quarry of M/s. Thomarappara Bric & Metals (File No. 856/SEIAA/EC1/2980/2015)	<b>88-90</b>

**Item No. 53.01****Request from Mr. T.V. Eliyas, Managing Partner, M/s Krishnagiri Stone Crusher to reconsider the decision of rejection of EC (File No. 159/SEIAA/KL/3488/2014)**

Mr. T.V. Eliyas, Managing Partner of M/s Krishnagiri Stone Crusher, vide his application received on 09-12-2013, has sought Environmental Clearance under EIA Notification, 2006 for the proposed quarry project in Sy. Nos. 523/1, 523/3/2, 524/1, 524/3/1, 524/3/2, 524/3/3 and 526/1 at Purakkadi Village, Meenangadi Panchayath, Sulthan Batheri Taluk, Wayanad District, Kerala for an area of 3.9669 hectares.

File No.		159/SEIAA/KL/3488/2013	
Name of project		M/s Krishnagiri Stone Crusher	
Brief description of the project		Quarry project with an area of 3.9669 ha. & production capacity of 1,50,000 MTA	
Category/Subcategory & Schedule		Category B/B2 & Schedule 1 (a)	
Location Sy no/ district, Taluk/ village etc.		Sy. No. 523/1, 523/3/2, 524/1, 524/3/1, 524/3/2, 524/3/3 & 526/1 falling in Village – Purakkadi, Panchayat – Meenangadi, Taluk – Sultan Batheri, District - Wayanad, Kerala	
GPS co-ordinates		Latitude (N)	11°39'50.42" to 11°39' 39.98"
		Longitude (E)	76°08'52.89" to 76°08'45.87"
for Mining projects	Extent of area (in hectares)	3.9669 ha.	
	Minimum and maximum height of excavation (MSL)	728 m. MSL and 748 m. MSL	
	Life of mine proposed	13 years	
	Ultimate depth of mining (in MSL)	728 m. MSL	
	Distance from the adjacent quarry	Quarry – Mr. Lateef, 50 m. W & Own crusher in the name of M/s Krishnagiri Stone Crusher, 7 km., E	
	Capacity of production	1,50,000 MTA	
	Details of project cost	Rs. 80 lakhs	
	Financial statement including funding source and details of insurance	Source of fund :- Own source & loan from bank Insurance :- Insurance to the workers through New India Insurance Co. Ltd.	
for Construction projects	Built up area (in m <sup>2</sup> )	Not applicable	
	No. of floors	Not applicable	
	Maximum height from ground level	Not applicable	
	Facilities proposed	Not applicable	
	Details of project cost	Not applicable	
	Financial statement including funding source and details of insurance	Not applicable	
	Activity schedule of the project	Not applicable	
CRZ recommendations		Not applicable	

	<i>Forest clearances</i>	Not applicable
	<i>Does it attract violation proceedings</i>	No
	<i>Env't Mgmt plan/ Eco restoration plan (brief details)</i>	At the end of life of mine, excavated pit will be backfilled and reclaimed & rehabilitated by plantation with native species so as to restore the natural eco-system.
<b>ABOUT THE PROJECT</b>		
	<b><i>Environmental parameters considered</i></b>	<b><i>Description</i></b>
<b>WATER</b>		
	Water requirement & sources	The total water requirement is about 5 KLD (Domestic – 1 KLD, Dust suppression – 2 KLD & Plantation – 2 KLD). The source of water is from storm water pond / well.
	RWH units proposed	Yes, Rain water collection pond
	Facilities for liquid waste treatment	Not applicable
	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No impoundment, damming, culverting, realignment or other changes to the hydrology of surface water courses.
	Water quality meeting requirements	Water quality meeting requirements after the treatment of water (filtration, disinfection & sedimentation).
	Does it have provisions for use of recycled water	No
<b>LAND</b>		
	Proximity to forest lands	No
	Access road to the site – Width & Condition	7.5 m. tarred road, N side
	Storage of explosives /hazardous substances	Yes, Explosives will be stored as per Explosives Act/Rules.
	Facility for solid waste mgmt	The municipal solid waste from the labour quarter will be suitably disposed.
	Topographic features/ slope	The topography of the lease area is rock area. The slope of the lease area are :- Section 'A – A' = 180 <sup>0</sup> Section 'B – B' = 39 <sup>0</sup> Section 'L – L' = 39 <sup>0</sup> Highest level = 748 m MSL, N side Lowest level = 728 m MSL, middle of the area
	Proneness of the area for landslides	No
	Significant land disturbance resulting in erosion, subsidence & instability	No
	Top soil, overburden etc.	Top soil – 57,576 cu.m. Overburden – 6,397 cu.m.
<b>AIR</b>		
	Air quality meeting	Yes

	requirements																												
	Noise level meeting requirements	Yes																											
	Likely emissions affecting environment	Diesel engine emissions & emissions from movement of vehicles like dumpers, trucks, tankers etc. will also generate.																											
<b>ENERGY</b>																													
	Energy requirement	The total power requirement will be 75 kW for compressors, which will be drawn from diesel engine.																											
	Energy sources	From diesel engine.																											
	Extent of usage of alternative energy resources	No																											
<b>BIODIVERSITY</b>																													
	Presence of any endangered species or red listed category	No																											
	Loss of native species and genetic diversity	Yes, For the quarrying activity all of native tree species, shrubs, herbs, climber etc. existing at site will be cleared.																											
	Likely displacement of fauna	No																											
	Any introduction of alien / invasive species	No																											
<b>SOCIAL ASPECTS</b>																													
	Proximity to nearest habitation	There are 3 houses located within 100 m. and consent obtained from all the three house owners.																											
	CSR related to the project / allocation / time frame (details mandatory )	<p>As a part of Corporate Social Responsibility, it is proposed to spend minimum of Rs. 5.25 lakhs per annum for different activities as mentioned in consultation with local village authorities. The detailed break-up proposed CSR activities are :-</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sr. No.</th> <th style="text-align: center;">Proposed CSR Activity</th> <th style="text-align: center;">Amount (in Rs.)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Fund donated for treatment of cancer patients</td> <td style="text-align: right;">60,000/-</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Construction of Panchayat road</td> <td style="text-align: right;">1,65,000/-</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Supply of construction materials (free of cost) to nearby residents</td> <td style="text-align: right;">2,00,000/-</td> </tr> <tr> <td style="text-align: center;">4.</td> <td>Scholarship to the Govt. school, nearby the site (200 students)</td> <td style="text-align: right;">15,000/-</td> </tr> <tr> <td style="text-align: center;">5.</td> <td>Fund donated to Club / trust for Onam celebration</td> <td style="text-align: right;">15,000/-</td> </tr> <tr> <td style="text-align: center;">6.</td> <td>Medical check up camp to the nearby School / Institution</td> <td style="text-align: right;">20,000/-</td> </tr> <tr> <td style="text-align: center;">7.</td> <td>Maintenance of Internal roads of Panchayat</td> <td style="text-align: right;">50,000/-</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>Total</b></td> <td style="text-align: right;"><b>5,25,000/-</b></td> </tr> </tbody> </table> <p><b>Bio-diversity fund</b> - As part of Access and Benefit Share (ABS), 1 percent of annual profit of the firm would be given to Biodiversity Management Committee of the Panchayath through the concerned Grama Panchayath</p>	Sr. No.	Proposed CSR Activity	Amount (in Rs.)	1.	Fund donated for treatment of cancer patients	60,000/-	2.	Construction of Panchayat road	1,65,000/-	3.	Supply of construction materials (free of cost) to nearby residents	2,00,000/-	4.	Scholarship to the Govt. school, nearby the site (200 students)	15,000/-	5.	Fund donated to Club / trust for Onam celebration	15,000/-	6.	Medical check up camp to the nearby School / Institution	20,000/-	7.	Maintenance of Internal roads of Panchayat	50,000/-	<b>Total</b>		<b>5,25,000/-</b>
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<b>Total</b>		<b>5,25,000/-</b>																											

		towards the restoration of biodiversity loss due to quarrying activities.
<b>GENERAL</b>		
	Does it propose environment management plan	Yes
	Does it have eco restoration programmes	Yes, The year wise programme of afforestation for the life of mine, about 3,000 trees will be planted. The main aim of the green belt development is to restore the ecosystem to its original form to a maximum possible extent by designing the green cover with the same native species.
	Biomedical waste management	Not applicable
	E-waste management	Not applicable
	Sufficiency of parking spaces/ traffic management	Yes
	Litigation/court cases, if any, against the project (Provide details)	No
<b>SEAC meetings/ ADDITIONAL CLARIFICATIONS</b>		
	Details of Authorised Signatory	Mr. T.V. ELIYAS, Managing Partner

The proposal was considered as agenda item no. 23.03 in the 23<sup>rd</sup> SEAC meeting held on 6<sup>th</sup> and 7<sup>th</sup> January 2014 and was deferred for site inspection. The proponent was also directed submit certain documents to SEAC for further consideration of the proposal.

Subsequently, a subcommittee of SEAC consisting of Dr. N.G.K. Pillai, Chairman, SEAC and Sri. John Mathai, Member, SEAC inspected the site on 5<sup>th</sup> March 2014. In the mean time the proponent has submitted the clarifications/ additional documents. In view of the site inspection conducted and on submission of the additional clarifications by the proponent, the matter was again placed before SEAC in its 26<sup>th</sup> meeting held on 20<sup>th</sup> and 21<sup>st</sup> March 2014 as agenda item no. 26.24 for verification of the documents for its satisfactory receipt and appropriate decisions. Further to the site inspection, the Committee decided to **RECOMMEND FOR REJECTION OF EC** based on the following grounds:

- The quarry activity in the centre of the valley has altered the hydrological regime considerably leading to rapid lowering and depletion of ground water. The original land use is also affected by this activity.
- Canal network of Karappuzha is seen on the northern side of the valley for irrigating the fields but is not seen functional till date. However, when it may come to operation, having deep pits in the valley will be detrimental.

SEIAA in its 29<sup>th</sup> meeting held on 9<sup>th</sup> April 2014 under agenda item no. KLA/29.07 decided to reject EC for the project considering the recommendations of SEAC. Subsequently, the proponent has submitted a request to SEIAA to reconsider the decision, stating that the reasons for rejection are not known to them and that no opportunity was given to them for the submission of reply to the points of rejection. SEIAA, considering the request in its 30<sup>th</sup> meeting held on 9<sup>th</sup> May 2014 referred to SEAC to give a chance to hear from the proponent and to report to SEIAA on the matter. The committee deferred for the next meeting as per the request of the proponent. But the matter is not placed in any other meeting after 30<sup>th</sup> SEAC. Meanwhile the proponent has submitted the mining plan per KMMC rules 1967. Hence, placed before SEAC for appropriate decision.



**Item No.53.02**

**Environmental clearance for the proposed quarry project in Sy. Nos. 271/1-2, 271/1-3, 271/1-6, 271/1-10, 271/1-11, 271/1-4, 271/8-2, 271/8-1, 271/20 pt., 270/4-1, 270/4, 270/3 and 270/2 at Pallichal Village and Panchayath, Neyyattinkara Taluk, Trivandrum District, Kerala by M/s V.S.C. Hollow Blocks & Crusher Division (File No. 163/SEIAA/KL/3493/2013)**

Mr. V. Sudhakaran, Managing Partner of M/s V.S.C. Hollow Blocks & Crusher Division, vide his application received on 09-12-2013, has sought Environmental Clearance under EIA Notification, 2006 for the proposed quarry project in Sy. Nos. 271/1-2, 271/1-3, 271/1-6, 271/1-10, 271/1-11, 271/1-4, 271/8-2, 271/8-1, 271/20 pt., 270/4-1, 270/4, 270/3 and 270/2 at Pallichal Village and Panchayath, Neyyattinkara Taluk, Trivandrum District, Kerala for an area of 2.7946 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The application was considered in the 23<sup>rd</sup> SEAC meeting held on 6<sup>th</sup> and 7<sup>th</sup> January 2014 as agenda item no. 23.09 and the Committee deferred the item for site visit, especially for evaluating the quarrying activities going on in the very sensitive Mukkunnimala region considering the complaints received in this regard and also directing the proponent to provide the following to SEAC for further consideration of the proposal:

1. Copies of sale deed for Sy. Nos. 271/1-10, 271/8-2, 271/8-1, 271/20 pt. and 270/4.
2. Copies of possession certificate of all Sy. Nos. mentioned in the proposal.
3. Clarification in writing as to whether EC has to be considered for Sy. No. 270/4 or 270/4-2, with reasons for the same.
4. Environmental quality analysis reports of air, water and noise taken from at least four different locations in the project site.
5. Detailed split up of proposed CSR activities linked with the present project along with the amount earmarked for each activity and the details of the areas/institutions to which the same shall be extended.
6. Documentary evidence regarding the amount already spent towards CSR.

The proposal was considered in 32nd SEAC meeting held on 13-14 August 2014 on the submission of additional clarifications sought by SEAC. Attempts were made by the subcommittee for conducting field visits to the site, but the same could not be done due to public protest against the quarry. Hence the item was deferred for field visit, after addressing the District Collector for police protection during the site visit. Now the field visit report is received from SEAC subcommittee and the details are extracted below:-

‘Field visit to the Quarry project site of M/S VSC Hollow Blocks and crusher in Pallichal Village, Neyyattinkara Taluk, TVPM district, Kerala was carried out on 22.01.2016 by the sub-committee of SEAC, Kerala, comprising Dr. George Chakkacherry, Sri. Ajaya Kumar and Sri. John Mathai. The Proponent with his representatives were present at the site at the time of site visit.

*“The project is an active quarry located at about 1.5 km north of Pallichal. This quarry lease area of 2.7946 ha being his own land occupy the the eastern lower slopes of Mukkunnimala. Boundary pillars are erected and numbered displaying GPS values. The rock type is a*

*mixture of gneiss and charnockite. Vertical cut slopes are seen on the northern side. The removed OB from the existing quarry is stocked at convenient places based on the place of excavation. RWH structure provided as a small tank is not adequate. A valley is seen close to the quarry on the lower eastern side to which the storm water from the quarry is led through concealed pipes. Rubber plantation is the dominant landuse in the undeveloped part. Floral and faunal biodiversity is not observed as the area is cleared. Dwelling units are seen adjacent to the MLA road but beyond 100 m. A crusher unit is associated with the quarry. Based on an overall evaluation of the site, the quarry operations may be recommended with following conditions:*

- 1. Fencing should be provided all around the lease area.*
- 2. Top soil and Over burden should be stored in a designated place on the lower slope away from the working area and provided with protective support walls.*
- 3. The water draining into the valley on the eastern side need clarification. It should also be provided with low level check dams at least at two places to arrest silt being washed down stream. Periodic desiltation is essential.*
- 4. The steep cuttings seen on the northern side must be demarcated with danger signs. A minimum of 10m wide flat zone should be provided at the base of the cutting to arrest the rock fragments likely to fall from the cutting.*
- 5. Dust suppression mechanism should be in place. The crusher unit should be completely encased.*
- 6. The lower part of the pit can be developed as a RWH and also to arrest the silt from being washed down.*
- 7. The CSR activity needs revision addressing the needs of the locality”.*

*’However the proposal is placed before 53 SEAC meeting for further appraisal.*

**Item No. 53.03**

**Environmental clearance for the Oceanarium and Marine Biological Research Centre project in Sy. No. 238/4 at Puthuvypin Village, Kochi Taluk, Ernakulam District, Kerala by State Fisheries Resource Management Society (FIRMA) (File No. 326/SEIAA/KL/2001/2014)**

The proposal was for establishing an Oceanarium and marine biological park, Puthuvypin, Ernakulam for the study and management of marine resources and also to develop ecotourism in the State. Government of Kerala has transferred 50 acres of land in resurvey No. 238/1 (Sy No. 238/2) to the Fisheries department for the proposed Oceanarium. The Oceanarium as such is proposed to be developed in 40 Acres out of 50 acres of land.

The project has two components – The Oceanarium proper and the Research and development facilities.

The project was considered in the 30<sup>th</sup> meeting of SEAC, initially as item No. 30.11. The decisionS of the committee are given below:

“After examining the proposal, the Committee found that the project being an oceanarium and marine biological research centre project proposed to be set up at area falling in the CRZ III category since the area falls within a Grama Panchayath and while classifying according to the landuse, it attracts provisions of CRZ I (Mangrove) and CRZ IV (tidal influenced water body and the bed), requires CRZ clearance. Considering the same, the item is DEFERRED for want of CRZ recommendations.

The proponent is further directed to address the following discrepancies noted in the present application for further consideration of the proposal after obtaining KCZMA recommendations:

1. The estimated initial power demand will be 5420 KVA (as given in application) and 4740.56 KVA (as given in the checklist).
2. Total project cost is ` 480 Crores (as given in the application) and ` 476.58 Crores (as given in the checklist).
3. Form 1 provided is incomplete, as the ‘Activity’ part is not found.
4. Copy of G.O. issued by Revenue Department assigning 50 acres of land in Re. Sy. No. 238/1 (Sy. No. 238/3) to State Fisheries Resource Management Society (FIRMA) for the installation of Oceanarium at Kochi, provided. ***(But the Sy. No. of the present application is 238/4, and hence this needs clarification).***
5. Area Survey Plan duly signed by Village Officer is provided, but the plan does not bear the office seal.
6. Cadastral map in which proposed outlay plan is superimposed is not provided.
7. Photographs of the project site ***without date*** provided.
8. GPS readings (in WGS 84 datum) from four extreme boundaries of the project site not provided.
9. Landscape plan is not provided.
10. Built up area of the project not provided.
11. Regarding e-waste management stated in checklist as ‘Provided in EMP’ but not provided.
12. In the undertaking provided by the consultant, it is stated by Managing Partner of the consultant organization that he shall be fully accountable for any misleading information **mentioned in this statement**, which is not acceptable.
13. Notarized affidavit for the conditions mentioned in the checklist is not provided.

14. Joint undertaking with the project proponent for implementation of EMP and EC conditions is not provided.

Later, it was considered again in the 40<sup>th</sup> meeting of SEAC held on 29<sup>th</sup> May 2015 in which it was decided to **DEFER** the proposal for production of details as decided in 30<sup>th</sup> meeting. The proponent has forwarded the details on 24.11.2015. The committee may examine the clarifications and undertake further appraisal.

**Item No. 53.04 Environmental clearance for Housing Project (Sobha Rio Vista) in Sy. Nos. 159/28B (p) at Calicut, Feroke Petta (Chandhakadavu), Feroke Village and Panchayath, Kozhikode Taluk, Kozhikode District, Kerala by M/s Sobha Developers Ltd. (File No. 371/SEIAA/KL/2611/2014)**

Mr. Ramakrishnan Prabhakaran, Deputy Managing Director & Authorized Signatory of M/s Sobha Developers Ltd., vide his application received on 09.06.2014 and has sought environmental clearance under the EIA Notification, 2006 for the Residential cum Commercial project in Sy. Nos. 159/2B at Feroke Village, Kozhikode Taluk, Kozhikode District, Kerala. It is interalia, noted that the project comes under the Category B, 8(a) of Schedule of EIA Notification 2006. No forest land is involved in the present project.

The height of the proposed building is 87 m and the The total plot area of the proposed project is 14802.337 m<sup>2</sup> and the total built-up area is 58542.09 m<sup>2</sup>. The total power requirement is 2857 KW which will be sourced through Kerala State Electricity Board. Renewable energy devices used are solar water heater and solar based streetlights. The project site is situated within 100 m from Chaliyar River. Total project cost is Rs.180 Crores. The proponent has stated that there is no litigation pending against the project and /or land in which the project is proposed to be set up.

The 33<sup>rd</sup> meeting of the SEAC considered the application. After examining the project details and documents submitted, the committee decided to conduct field visit. Accordingly SEAC subcommittee conducted the field visit. Field inspection report is given below.

Field visit to the site was carried out on 11.10.2014 by Dr.P.S.Harikumar and Sri. John Mathai. The representatives of the proponent were present during the site inspection. The site is located on the southern side of the road leading from Ramanattukara side of bridge over Chaliyar to Feroke. (11<sup>o</sup> 10' 51" N, 75<sup>o</sup> 50' 09" E).

The land proposed to be developed is a laterite covered moderately sloping land with slope towards north ie to the Chaliyar river. Coconut and mixed trees form the dominant landuse. The water table in the plot varies from about 8 m bgl in the upper crestal portion to about 5 m bgl in the lower flanks. On the main riverside adjacent to the road healthy stands of mangroves were noted which means that part of the project site falls in CRZ. Hence statutory clearance from KCZMA is warranted. The proposed footprint of the main building, location of RWH and STP, layout of the road, parking facilities etc were shown to the SEAC members.

“Considering the location and other aspects following points may be considered:-

1. On the southern side near to the elevated part a cutting of about 12 m is proposed to facilitate vehicle parking in the different levels of basement. On analysing the bore logs it is seen that soft water saturated clayey strata with low N values is seen at depth. This need to be supported mechanically so as to prevent slope failures and a safe design must be provided. A safe buffer distance must be provided from the boundary.
2. The quantity earth to be removed and transported out of the site must be provided.
3. Dependable yield of wells must be provided. Bore wells are not advised in the area due to presence of saline water bodies in the vicinity.
4. Ventilation with mechanical exhaust system must be provided in the vehicle parking

area

5. Internal width of drive way to be at least 7 m with at least 3 m distance between drive way and proposed building. The gradient of the drive way must facilitate smooth movement of vehicles especially fire fighting equipments.
6. A barrier to be provided to a depth of at least 4 m from ground level by the side of RWH facility to isolate it from STP/fuelling station on the eastern side. Considering the fresh water scarcity the RWH must have a capacity to store at least one month fresh water need of the project. “

Then the proposal has placed before 36<sup>th</sup> meeting of SEAC held on 31 October 2015. Committee defer the item for want of the following clarifications.

1. Safe design for mechanical support to prevent slope failure must be provided.
2. The quantity of earth to be removed and transported out of the site must be provided.
3. Dependable yield of wells must be provided. Bore wells are not advised in the area due to presence of saline water bodies in the vicinity.
4. Ventilation with mechanical exhaust system must be provided in the vehicle parking area
5. Maintain the internal width of drive way to be at least 7 m with at least 3 m distance between drive way and proposed building. The gradient of the drive way must facilitate smooth movement of vehicles especially fire fighting equipments.
6. A barrier to be provided to a depth of at least 4 m from ground level by the side of RWH facility to isolate it from STP/fuelling station on the eastern side. Considering the fresh water scarcity the RWH must have a capacity to store at least one month fresh water need of the project”

The proponent was addressed for compliance of the above decision vide letter No.371/SEIAA/EC4/2611/2014 dated 19/1/15. But the proponent has not yet responded to above said letter. Now the matter is placed before SEAC for appropriate decision.

**Item No. 53.05**      **Environmental clearance for the quarry project in Sy. Nos. 247/1-1,247/10,247/11-2 and 247/11-3 at Ayyampuzha Village & Panchayath, Aluva Taluk, Ernakulam District, Kerala by M/s Pynadath Stone Quarry (File No. 430/SEIAA/KL/2990/2014).**

Sri. Paulson P. Varkey, Proprietor of M/s Pynadath Stone Quarry, vide his application received on 24.06.2014, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. Sy. Nos. 247/1-1,247/10,247/11-2 and 247/11-3 at Ayyampuzha Village & Panchayath, Aluva Taluk, Ernakulam District, Kerala for an area of 1.2133 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within 10°13'59.94" N to 10°14'23.00" N and 76°27'20.12" E to 76°27'24.91" E. The project site is private patta land. The proponent has sought Environmental Clearance for an area of 1.2133 hectares. Forest land is not involved in the project. The proposed project is for quarrying of 250 TPD of building stone from an area of 1.2133 hectares of land. The expected life of mine will be 5 years. The proposed project does not involve any underground mining activities. The mining will be done by mechanized open cast method. Periyar river and Pariyaram river are situated at a distance of 5.8 km (SE) and 6.8 km (N) respectively. The proponent has stated that, there is no litigation pending against the lease area.

The application was considered by SEAC in its 33<sup>rd</sup> meeting and additional details were called for besides deciding to undertake site visit.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i)</i>
2.	Form I	<i>Enclosed</i>
	Questionnaire for mining projects	<i>Enclosed</i>
	Pre-feasibility report	<i>Enclosed</i>
	Environment Management Plan	<i>Enclosed</i>
3.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	<i>No</i>
4.	Proof of ownership of land	<i>Possession certificate for all Sy. Nos. mentioned in the proposal and Land Tax Certificate for Sy. Nos. 247/11-2, 247/10, 247/1-1, 247/1-2, 247/11-3 in the name of proponent have provided.</i>
5.	Proof of authorized signatory	<i>1. Notarized affidavit in the name of Mr. Paulson P Varkey, Proprietor of the firm provided (c.f. pg. no. 181).. 2. Attested copy of Voters ID card of Mr. Paulson P Varkey provided. (c.f. pg. no. 183)</i>
6.	Cadastral map duly signed by Village Officer	<i>Enclosed (c.f. pg. no. 235)</i>

7.	Recent photographs of the project site with digital dates of the camera	<i>Enclosed (date shown is 16.12.2013) (c.f. pg. no. 233)</i>
8.	Area survey plan approved by Village officer	<i>Enclosed (c.f. pg. no. 179)</i>
9.	Panoramic view of the site /Google image with date	<i>Enclosed (c.f. pg. no. 81,83)</i>
	GPS readings in WGS 84 datum	Latitude: 10°13'59.94" N to 10°14'23.00" N Longitude: 76°27'20.12" E to 76°27'24.91" E <i>(c.f. pg. no. 7)</i>
10	Distance of the mining area from the nearest human settlement	>100m <i>(c.f. pg. no. 7)</i>
11	Right & nature of ownership of land	Private Patta land owned by lessee <i>(c.f. pg. no. 7, 113)</i>
12	Is the property forest land/govt. land/own land	Private Patta land owned by lessee <i>(c.f. pg. no. 7, 113)</i>
13	Extent of land in hectares	1.2133 hectares
14	Proposed production capacity	250 TPD
15	Ultimate depth of mining (in MSL)	Up to 30 m AMSL, (Min-17m& Max 57 m)
16	Quantity of topsoil estimated to be removed	Nil
17	Method of mining	Mechanized Open cast
18	Underground mining if any proposed	No
19	Analysis reports from accredited laboratories	<i>Enclosed. (c.f. pg. no. 197-219)</i>
20	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	<i>Enclosed (c.f. pg. no. 221)</i>
21	Waste management proposals	Nil <i>(c.f. pg. no. 53)</i>
22	Mined area management	<i>Enclosed (c.f. pg. no. 54)</i>
23	a) Undertaking responsibility for the proposal submitted	<i>Enclosed (c.f. pg. no. 191)</i>
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Not Provided. Declaration from Proponent only provided <i>(c.f. pg. no. 223).</i>
24	Affidavits for:	1. Constitution of Environment Monitoring Cell
		2. Providing fire fighting system
		3. Providing systems to minimize dust emissions
		4. To provide adequate safety measures for the construction workers during the construction phase
		5. To upload the following in the website of the project:
		<i>Enclosed (c.f. pg. no. 2217).</i>



		a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	
25	Proposals for Corporate Social responsibility		<i>Enclosed (c.f. pg. no. 102)</i>
26	Total cost of the project with details		Not provided
27	Soft copy of the proposal (in PDF format)		<i>Enclosed</i>
28	Details of Authorised Signatory		Sri. Paulson P. Varkey Proprietor & Authorized Signatory M/s Pynadath Stone Quarry. Pynadath House, Nayathodu (PO), Ernakulam - Mob. No. +919388811452 Email: <a href="mailto:paulsonpvarkey@gmail.com">paulsonpvarkey@gmail.com</a>

As per the decision of the SEAC Field visit to the Quarry project site was carried out on 24.09.2014 by Dr. N G K Pillai and Sri. John Mathai. The representatives of the proponent were present at the site. The major observations are as follow:

*“ The quarry is located on an elevated land with slope to the west. The entire upland area is more or less rocky with very limited soil cover. The rock type is **charnockite** with well developed foliation and joints. The quarry area is almost exploited to the ground level and the excavated sides are cliff like with 10 -15 m sub-vertical cutting. Copious flow of water is seen from the quarry to the lower plots with out any form of desiltation and clarification. Settlement beyond 100 m.*

*As such the steep cuttings present a precarious condition especially with closely spaced joints. All such areas to be demarcated as danger zones and separated with fences. **Only a limited quantity of material is available to a depth of 5 m from the existing level which may be permitted to be taken out. The total quantity available may not exceed 25000 cum. However the pit may be restored for normal use in the end by providing sufficient vegetative cover. Blasting limited to 30 m once a day.***

*There are more than 10 abandoned pits seen in the area. All of them present a neglected state as unprotected water pools with seep cuttings. The persons who operated them in this area may be asked to carry out eco-restoration.*

*Another four active quarries are seen in the area. It is not clear whether EC has been obtained to operate them. The approach road is narrow and not hard topped. The dust generation along the road is causing hardship to the residents and complaints are many. This aspect need to be addressed”.*

The SEAC had called for baseline details of the project and the contour map showing level of canal, project area and its surroundings, which have been received. The revised mining plan has not been received yet. The proponent was addressed by SEIAA asking for various details including the revised mining plan. The proponent has not responded.

The proposal is placed before SEAC for appraisal

**Item No. 53.06**

**Environmental clearance for the granite building stone quarry project in Survey Nos. 253/2, 253/4-1, 253/4-2, 253/4-3, 253/4-4, 254/2, 255/7, 252/5, 252/6 and 252/7 at Rayamangalam Village, Kunnathunadu Taluk, Ernakulam District, Kerala by M/s Pavan Quarry and Aggregates Pvt. Ltd. (File No. 470/SEIAA/KL/3214/2014).**

Sri. K.T. Paul, Managing Director of M/s Pavan Quarry and Aggregates Pvt. Ltd., vide his application received on 04.07.2014, has sought Environmental Clearance under EIA Notification, 2006 for the granite building stone quarry project in Survey Nos. 253/2, 253/4-1, 253/4-2, 253/4-3, 253/4-4, 254/2, 255/7, 252/5, 252/6 and 252/7 at Rayamangalam Village, Kunnathunadu Taluk, Ernakulam District, Kerala for an area of 2.91.90 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposal was considered in the 33<sup>rd</sup> SEAC meeting held on 2<sup>nd</sup> and 3<sup>rd</sup> September 2014 under agenda item no. 33.23. The Committee deferred the item for site visit. Subsequently, field visit to the quarry site was carried out on 24.09.2014 Dr. N.G.K. Pillai, Chairman SEAC and Sri. John Mathai, Member SEAC. The representatives of the Proponent were present at the site.

The details of the Inspection Report are given below:

*“The proposal for quarrying in an area adjacent to two abandoned quarries. The area is moderately undulating with slope to southwest. Charnockite is the dominant rock type. Area presently under rubber has limited soil thickness with occasional rock outcrops. A seasonal stream is seen on the western side beyond the lease area. The main activity at present is a crushing of rocks for aggregates and sand. Piles of rock is seen in the stock yard.*

*KMP Engg college is >250 m from the unit with a road in between. The operation of the lorries is through a newly laid road to the east causing least disturbance to the College. Settlements are not seen within 100 m of the quarry. A temple with infrequent worship is 190 m away. A poultry farm is 75 m from the lease area.*

*Considering the presence of good deposit of rock at shallow level, lower slope, presence of old quarries and absence of settlement in the vicinity recommend for EC. The stream flowing on the western side shall not be disturbed. The dust and other matter that make the water turbid shall be filtered by providing check dam or such mechanism. Blasting limited to 30 minutes duration once a day. Sprinkler to be provided for the crusher unit. The abandoned quarry must be retained as RWH pit directing the clarified storm water into it for use in summer.*

Other general conditions to be followed.

The proposal was again considered in the 35<sup>th</sup> meeting of SEAC as item no. 35.45. in which the committee recommended the proposal for Environmental Clearance subject to the following conditions.

1. The stream flowing on the western side shall not be disturbed.
2. The dust and other matter that make the water turbid shall be filtered by providing check dam or such mechanism.
3. Blasting limited to 30 minutes duration once a day.
4. Sprinkler to be provided for the crusher unit.
5. The abandoned quarry must be protected by fencing and retained as RWH pit directing the clarified storm water into it for use in summer
6. The ultimate depth of mining shall not exceed 55m AMSL

The SEIAA in its 35<sup>th</sup> meeting held on 09.04.2015 decided to call for production of mining plan as per KMMC Rule, 2015. The proponent has accordingly submitted the mining plan.

The proposal is placed before SEAC for appraisal

**Item No. 53.07**      **Environmental clearance for the quarry project in Sy. No. 320/2, 320/3 at Aikaranadu north Village, Kunnathunadu Taluk, Ernakulam District, Kerala by Sri. Joseph John for M/s Slabs Aggregates.**  
(File No. 519/SEIAA/KL/3823/2014)

Sri. Joseph John – Managing Partner, Embassy Resident, Kuruppampady, Rayamangalam Village, Kunathunadu Taluk, Ernakulam District. vide his application received on 10-07-2014, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 320/2, 320/3 at Aikaranadu north Village, Kunnathunadu Taluk, Ernakulam District, Kerala for an area of 8.6330 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within N 09<sup>0</sup> 59' 26.9" - N 09<sup>0</sup> 59' 42.1" E 76<sup>0</sup>27' 15.9" - E 76<sup>0</sup> 27' 30.4". The lease area consists of 8.6330 hectares, which is own land. The proposed project is for quarrying of 200 tpd of building stone. Distance of the mining area from the nearest human settlement is recorded as more than 100 m. Even though it is an existing quarry seeking for renewal the corporate social responsibility is least bothered and no evidences has been produced. No underground mining is permitted, hence all the activities should be ceased above 2 m ground level. Area is dissimilar in form 1 and other portions, may be typographical error. Not at all mentioned anything about clustering system, from the map produced, so many rocky patches are noticed. Affidavits to prove undertaking has not been furnished in notarised stamp paper. Ground water table has to be preserved at any area hence lineament of rocks has to be checked.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i) (if so)</i>
2.	Form I	Provided (c.f.pg. no. 7)
	Questionnaire for mining projects	Provided (c.f.pg. no. 19-24)
	Pre-feasibility report	Provided (c.f.pg. no. 25-29)
	Environment Management Plan	Provided (c.f.pg. no. 30-61)
3.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No
4.	Proof of ownership of land	Own land ; Provided (c.f.pg. no. 241)
5.	Proof of authorized signatory	Provided (c.f.pg. no. 251-253)
6.	Cadastral map duly signed by Village Officer	Provided (c.f.pg. no. 245)
7.	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 248)
8.	Area survey plan approved by Village officer	Provided (c.f.pg. no. 243)
9.	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 62-64)
	GPS readings in WGS 84 datum	N 09 <sup>0</sup> 59' 26.9" - N 09 <sup>0</sup> 59' 42.1" E 76 <sup>0</sup> 27' 15.9" - E 76 <sup>0</sup> 27' 30.4"
10.	Distance of the mining area from the nearest	>100 m

	human settlement		
11.	Right & nature of ownership of land	Provided (c.f.pg. no. 107)	
12.	Is the property forest land/govt. land/own land	Own land ; Provided (c.f.pg. no. 241)	
13.	Extent of land in hectares	8.6630 ha	
14.	Proposed production capacity	200 tpd	
15.	Ultimate depth of mining (in MSL)	Present - 7.5m to 56.5 m( Present RL of +27.5 to 00 RL) Conceptual stage- 35m to 84m (00msl)	
16.	Quantity of topsoil estimated to be removed	NA	
17.	Method of mining	Open cast	
18.	Underground mining if any proposed	No	
19.	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 265-271)
		Water	Provided (c.f.pg. no. 273-287)
		Soil	Provided (c.f.pg. no. 293-297)
		Noise	Provided (c.f.pg. no. 289-291)
20.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 299)	
21.	Waste management proposals	Not satisfactory	
22.	Mined area management	Not satisfactory	
23.	Attested true copy of NABET accreditation certificate (Original to be produced for verification at the time of presentation with photo ID of the EIA Co-ordinator)	Provided (c.f.pg. no. 255)	
	a) Accreditation with serial number of QCI / NABET	NABET/EIA/SA052/0413	
	b) Undertaking responsibility for the proposal submitted	Provided (c.f.pg. no. 261; NO <i>AFFIDAVIT</i> )	
	c) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f.pg. no. 303; NO <i>AFFIDAVIT</i> )	
24.	Affidavits for:	4. Constitution of Environment Monitoring Cell	Provided (c.f.pg. no. 305)
		5. Providing fire fighting system	
		6. Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND	

		d) Send the copy of the EC to the LSG concerned	
25.	Proposals for Corporate Social responsibility		<i>Adequate</i>
26.	Total cost of the project with details		80 lac
27.	Soft copy of the proposal (in PDF format)		Yes
28.	Details of Authorised Signatory		Sri. Joseph John – Managing Partner Embassery Resident, Kuruppampady, Rayamangalam Village, Kunathunadu Taluk, Ernakulam District. PH: 0484 – 2760284, Mobile: 09388127777 E.mail- josephemb@gmail.com / joseph@synthite.com.

The proposal was appraised in the 46<sup>th</sup> SEAC meeting held on 29<sup>th</sup> and 30<sup>th</sup> September, 2015. It was decided to **DEFER** the proposal for site inspection. Subsequently, site inspection was conducted by the subcommittee comprising of Dr. E.A. Jayson, Dr. K.G. Padmakumar and Sri. P. Sreekumaran Nair on 02.12.2015. The details of the inspection report are given below:

*“The project is an active quarry located at Kadayirippu, Kolanchery, Kunnathunadu Taluk & Ernakulam District, Kerala. The method of operation is reported as through controlled blasting. This is an old quarry in operation for the last 40 years. The working faces are being modified by the formation of benches. This quarry area falling in own land is moderately sloping to West, exposing hard rock. Being an elevated land, streams are not seen in the site. However fairly good seepage of water is seen at the base of the quarry and the storm water is collected in a pond on northern side. The excess storm water is pumped to another canal and let out. The water leaving the quarry has to be clean and without any dust and this has to be strictly followed by the proponent. Houses are not seen in the immediate vicinity of 100 m. The workers are provided with limited accommodation and canteen facilities. Crusher is situated in the same compound and the quarry site is 3km away from Kolanchery town.*

Based on an overall evaluation of the site, following points may be considered:

1. Protection wall is needed all along the quarry wherever deep cuttings are present.
2. Benches are not seen in the mining operations and this has to be strictly adhered.
3. Over burden is to be stored in the designated place and no compromise should be made on this point.
4. The whole area needs planting of trees to convert the area into a more acceptable landscape. For this indigenous species of trees need to be planted all around the quarry in the vacant spaces. This will also help in reducing the dust and sound pollution.
5. The drainage from the quarry is currently directed to the North corner and let out. The deposited silt must also be cleaned periodically.
6. Considering the topography, garland drains need not be insisted upon.
7. The approach road to the quarry from the main road is not maintained at all. This road must be maintained in good condition by the proponent. Buffer distance from the road near the quarry may not be required as it ends at the quarry.
8. The blasting time must be displayed and strictly adhered to. The PPV values must be less than 10 mm/sec. Steps to be taken to limit fly rock to the quarry area.

9. *Dust suppression mechanism must be in place.*
10. *In the absence of perennial streams in the vicinity, ultimate depth of mine will depend on the possible benches in the lease area.*

*Other items from general conditions and CSR may be added”.*

The proposal is placed before SEAC for appraisal

**Item No.53.08 Environmental clearance for the quarry project in survey No. 567/1-2, 567/2B2, 568/1-1, 568/2-2, 569/1-3, 569/1-5, 567/2A, 567/2B1, Thirumarady Village & Panchayat, Muvattupuzha Taluk, Ernakulam District, Kerala by Sri. Nizamudheen K.S. for the quarry project (File No. 538/SEIAA/EC3/3881/2014)**

Sri. Nizamudheen K.S., vide his application received on 13.08.2015, has sought Environmental Clearance under EIA Notification, 2006 for the Proposed Expansion of Building Stone Quarry in survey No. 567/1-2, 567/2B2, 568/1-1, 568/2-2, 569/1-3, 569/1-5, 567/2A, 567/2B1, Thirumarady Village & Panchayat, Muvattupuzha Taluk, Ernakulam District, Kerala for an area of 3.9662 Hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within 9<sup>o</sup>55' 28.5" - 9<sup>o</sup>55' 21.57" N 76<sup>o</sup> 33' 45" - 76<sup>o</sup> 33' 34.34" E. The lease area consists of 3.9662 hectares, which is own land. The proposed project is for quarrying of 1, 60, 000 MTA of building stone. Distance of the mining area from the nearest human settlement is recorded as more than 100 m declared by village officer more over there is no public water body and road, but from the cadastral map a stream channel is abutting the site. which no proof has been given. The corporate social responsibility proposed is meagre. No soil lab report has been furnished.

**BASIC INFORMATION OF THE PROJECT**

Mr. NIZAMUDHEEN K.S. has a building stone quarry project with proposed production capacity of 1,60,000 MTA. The proposed building stone quarry project is situated at Survey No. 567/1-2, 567/2B2, 568/1-1, 568/2-2, 569/1-3, 569/1-5, 567/2A, 567/2B1, Thirumarady Village & Panchayat, Muvattupuzha Taluk, Ernakulam District, Kerala in an area of 3.9662 hectares. The proposed quarry site is private land. The estimated project cost will be Rs. 2.25 Crores. The expected life of mine will be 12 years.

The total water requirement is about 5 KLD in which 1 KLD is for domestic which would be sourced from open well, 2 KLD for dust suppression system in mine and 2 KLD for plantation purposes and will be sourced from storm water pond. The total man power will be about 23 persons. The total power requirement will be 75 kW, which will be operated by diesel engine.

The mining will be done by open cast semi-mechanized method of mining. The height and width of the bench will be maintained at 5-5 m. The exploitation of mineral will be done from 190 m. MSL to 90 m. MSL in conceptual phase. Excavated material is transported by 15T trucks/tippers to the crusher unit located at outside the complex (at Podingavathe about 0.5 km., from the site) for further processing.

The top soil of 39,662 cu.m. will be generated from the mining operations, which shall be properly stacked and will be utilized for plantation over the reclaimed areas. About 21,814 cu.m. of overburden will be generated throughout the mine life. These wastes shall be utilized within the pit for laying of haul roads. At the end use, OB can be reutilized as soil base for plantation. At the end of life of mine, the reclaimed area will be suitably planted (about 4,000 trees will be planted in the lease area) leaving no void. The main aim of the green belt



development is to restore the ecosystem to its original form to a maximum possible extent by designing the green cover with the same native species. The sewage to a tune of 0.8 KLD generated from the mine office will be diverted to the septic tank followed by soak pit. To avoid the dust generation from the drilling operations, wet drilling methods will be adopted. Periodical monitoring of ambient air, noise, water & waste water quality in and around the lease area will be carried out. The workers will be provided with personal protective equipments i.e., earmuffs, earplugs and dusk masks. Periodic health/medical checkups for all the workers as per Factories Act will be done to ascertain good health and safety.

As a part of corporate social responsibility, it is proposed to spent about Rs. 22,95,500/- (Recurring = Rs. 13,93,000/- + Non Recurring = Rs. 9,02,500/-) for various local development activities in consultation with local village authorities. About Rs. 9 lacs per annum is proposed to be spent for the environment protection programme / measures.

Due to the proposed project the surrounding environment will not face any problem related to pollution. The living standard of the local people will improve. The Environmental Action Plan (EAP) will be strictly followed for abating the pollution.

The proposal was considered in the 45<sup>th</sup> SEAC meeting held on 11<sup>th</sup> and 12<sup>th</sup> September 2015 under agenda item no. 45.05. The Committee observed that mining plan is not in accordance with KMMC Rules 2015 and hence the proponent was directed submit a revised mining plan. The Committee decided to **DEFER** the proposal for field inspection. Subsequently, field visit to the quarry site was carried out on 17.09.2015 by the sub-committee of SEAC, Kerala, comprising Sri P. Sreekumaran Nair and Sri. John Mathai. The Proponent with his representatives were also present at the site.

The details of the Field Inspection Report are given below:

*“The project is an active quarry located at about one km north east of Navolimattom near Mannathur. This quarry area of 3.9662 ha falling in own land is relatively flat on the top and moderate to steep sloping to west on the lower part, partly exposing hard rock. The elevation ranges from 120 m in the west to 190 m in the east. The rock type is mostly fractured charnockite suite of rocks with steep foliation. Major faults are not observed in the site. On the western side of the lease area, steep cutting of the old workings are seen while to the east benches are under formation. Pockets of weathered rock with about 2 m thick overburden (OB) and top soil is seen in the upper part. The removed OB is stocked in the land of the proponent at a lower level. Being an elevated land, streams are not seen in the site. However fairly good seepage of water is seen in the rainy season at the interface of rock and OB. The entire drainage from the elevated land including the quarry is partly channelised into the abandoned quarry pit on the western side from where it flows out through a narrow first order ephemeral stream. The area in general supports patches of rubber plantation. Floral biodiversity is not observed as the quarry area is mostly cleared of vegetation. Haulage road to the upper level is formed but not provided with hard surfacing. Dwelling units are noted on the NE side but not in the immediate vicinity of 100 m. The water demand of the quarry is met from the old quarry pit which acts as a RWH structure. Accommodation to workers and canteen facilities are not observed. The unit does not have an associated crusher.*

*Based on an overall evaluation of the site, the quarry operations may be recommended with following conditions:*

- 1. Fencing should be provided all around the lease area. The steep cut faces of the old workings should be further demarcated, fenced and to be left as danger zone.*

2. *Over burden must be stored in the designated places and provided with protective support walls.*
3. *Part of the drainage from the quarry is currently directed to the old pit that acts as RWH structure. However part of it flows out as overland sheet flow. A lined catchwater drain should be provided at the lower elevation leading to the abandoned quarry pit which is now RWH structure.*
4. *The water from the RWH structure should be let out only after clarification/desiltation for which a suitable structure is essential at the outlet. It may be important to provide a check dam in the outlet point of the channel to arrest all fine particles and to clarify water before it is let out. The deposited silt must also be cleaned periodically.*
5. *Considering the topography, garland drains need not be insisted upon.*
6. *The main haulage road formed in the quarry must be maintained in motorable condition. The approach road to the quarry from the main road is not maintained at all. This road should also be maintained in good motorable condition by the proponent.*
7. *In the absence of perennial streams in the vicinity, ultimate depth of mine will depend on the possible benches of 5m width and 5m height in the lease area.*

*Other items from general conditions like a)Appropriate sign boards should be displayed, b) The blasting time must be displayed and strictly adhered to, c) The PPV values must be less than 10 mm/sec, d) Steps to be taken to limit fly rock to with in the lease area. Rock fragments should not fall any where outside the lease area, e)Dust suppression mechanism must be in place f)A belt of trees (Vegetation belt) should be maintained all around the quarry but must be maintained till the entire life of quarry, g) A separate small plot to be maintained in the premise to preserve rare and endemic species listed in the biodiversity assessment and the promised activity under CSR may be added”.*

The proponent has not submitted the Mining plan as per KMMC Rule, 2015 and a letter has been sent to the proponent for production of the document by return. The proposal is placed before SEAC for further appraisal.

**Item No.53.09**      **Environmental clearance for the quarry project in Sy. No. 274/2,3,1-2, 273/1-2,1-3,2,3, 282/1,2 at Mazhuvannoor, Village, Kunnathunad Taluk, Ernakulam District, Kerala by Sri. V. N. Pavithran (Owner), M/s Megha Granites (File No. 542/SEIAA/KL/3886/2014)**

Sri. V. N. Pavithran (Owner), M/s Megha Granites, Vattappara House, Karattupallikkara, P.O.- Perumbavoor, Ernakulam District vide his application dated 22/07/2014, has sought Environmental Clearance under EIA Notification, 2006 for the Proposed expansion of Building Stone Quarry in Sy. No. 274/2,3,1-2, 273/1-2,1-3,2,3, 282/1,2 at Mazhuvannoor, Village, Kunnathunad Taluk, Ernakulam District, Kerala for an area of 9.7 Hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within Latitude (N) 10°02'44.50"N to 10°02'51.56"N Longitude (E) 76°28'44.01"E to 76°28'54.04"E. The lease area consists of 9.7 hectares, which includes own private land. The total mine lease area is 9.7 Ha. The proposed project is for quarrying of 1,50,000 tpa of building stone. Distance of the mining area from the nearest human settlement is recorded as approximately 300 m for which no proof has been given. The Corporate Social Responsibility (CSR) is least satisfyingly. Area survey map submitted has no declaration about the nearby settlement.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1	Category/Sub category & Schedule	<i>Category B2, 1(a), (i)</i>
2	Form I	Provided (c.f.pg. no. 7-22)
	Questionnaire for mining projects	Provided (c.f.pg. no. 24-25)
	Pre-feasibility report	Provided (c.f.pg. no. 27-66)
	Environment Management Plan	Provided (c.f.pg. no. 67-86)
3	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No
4	Proof of ownership of land	Provided (c.f.pg. no. 177-179)
5	Proof of authorized signatory	Provided (c.f.pg. no. 173)
6	Cadastral map duly signed by Village Officer	Provided (c.f.pg. no. 174)
7	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 88); one year old photographs
8	Area survey plan approved by Village officer	Provided (c.f.pg. no. 176)
9	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 30); no radius map has been submitted
	GPS readings in WGS 84 datum	Latitude (N) 10°02'44.50"N to 10°02'51.56"N Longitude (E) 76°28'44.01"E to 76°28'54.04"E
10	Distance of the mining area from the nearest human settlement	300; no proof

11	Right & nature of ownership of land	Own / Pvt.	
12	Is the property forest land/govt. land/own land	Own / Pvt.	
13	Extent of land in hectares	9.7 Ha	
14	Proposed production capacity	150000 TPA	
15	Ultimate depth of mining (in MSL)	47	
16	Quantity of topsoil estimated to be removed	36752 m <sup>3</sup>	
17	Method of mining	Semi-Mechanized Open cast	
18	Underground mining if any proposed	No	
19	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 180)
		Water	Provided (c.f.pg. no. 182-188)
		Soil	-----
		Noise	Provided (c.f.pg. no. 190-196)
20	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 201)	
21	Waste management proposals	Provided (c.f.pg. no. 73)	
22	Mined area management	Provided (c.f.pg. no. 78)	
29.	a) Undertaking responsibility for the proposal submitted	Provided (SUPPLIMENTARY .pg. no. 7); NO AFFIDAVIT)	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f.pg. no. 205)	
24	Affidavits for:	301 Constitution of Environment Monitoring Cell	Provided (c.f.pg. no. 206-209)
		302 Providing fire fighting system	
		303 Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	
25	Proposals for Corporate Social responsibility	Provided (c.f.pg. no. 74), not good	
26	Total cost of the project with details	1.5 Cr	
27	Soft copy of the proposal (in PDF format)	Yes	
28	Details of Authorised Signatory	Mr. V. N. Pavithran (Owner) M/s Megha Granites Vattappara House, karattupallikkara, P.O.- Perumbavoor, Ernakulum,	

		Kerala Pin Code : 683542 Mobile No. – 9447988727 E-mail: meghagranites2011@gmail.com
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The proponent submitted revised mining plan as per KMMC Rule, 2015. Hence, the proposal is placed before SEAC for appraisal.

**Item No. 53.10**      **Environmental clearance for the quarry project in Sy. No. 164/2, 164/1-36, 164/1-111 and 164/1-113 at Ayyampuzha Village, Aluva Taluk, Ernakulam District, Kerala by Sri. Paulson P. Varkey – Managing Partner, Ernakulam Dist For MP Sands (File No. 560/SEIAA/KL/4121/2014)**

Sri. Paulson P. Varkey – Managing Partner, Pynadath House, Nayathodu P.O, Ernakulam District, Kerala Dist. vide his application dated 22-07-2014, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 164/2, 164/1-36, 164/1-111 and 164/1-113 at Ayyampuzha Village, Aluva Taluk, Ernakulam District, Kerala for an area of 2.9349 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within N - 10<sup>0</sup>14'28.83" N to 10<sup>0</sup>14'39.44" E - 76<sup>0</sup>27'39.73" E to 76<sup>0</sup>27'46.09". The lease area consists of 2.9349 hectares, which is private land. The proposed project is for quarrying of 500 tpd of building stone. Distance of the mining area from the nearest human settlement is recorded as more than 100 m. Even though it is an existing quarry seeking for renewal the corporate social responsibility is least bothered. Photographs provided are old (1 year before). This plot is contiguous to a huge rock mass. 2 more quarries or rocky patches are seen in 500 m radius map. No affidavit has been provided for joint undertaking with the consultancy.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1	Category/Sub category & Schedule	<i>Category B2, 1(a), (i)</i>
2	Form I	Provided (c.f.pg. no. 9-22)
	Questionnaire for mining projects	Provided (c.f.pg. no. 23-28)
	Pre-feasibility report	Provided (c.f.pg. no. 29-92)
	Environment Management Plan	Provided (c.f.pg. no. 93-110)
3	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No
4	Proof of ownership of land	Provided (c.f.pg. no. 233-237)
5	Proof of authorized signatory	Provided (c.f.pg. no. 247)
6	Cadastral map duly signed by Village Officer	Provided (c.f.pg. no. 244)
7	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 241); OLD PHOTO
8	Area survey plan approved by Village officer	Provided (c.f.pg. no. 239-240)
9	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 78-79); 2 more quarries, contiguous Sy. No. rock exposure
	GPS readings in WGS 84 datum	N - 10 <sup>0</sup> 14'28.83" N to 10 <sup>0</sup> 14'39.44" E - 76 <sup>0</sup> 27'39.73" E to 76 <sup>0</sup> 27'46.09"
10	Distance of the mining area from the nearest human settlement	100
11	Right & nature of ownership of land	The recent renewal of Quarry permit was obtained on 06.12.2013 vide Letter no. 149/13-

		4/MM/GS/CRPS/DOE/3452/E2/13 and its valid up to 05.12.2014.	
12	Is the property forest land/govt. land/own land	The entire proposed mine lease area of 2.9349 Ha. is private patta land owned by lessee.	
13	Extent of land in hectares	1.9349	
14	Proposed production capacity	500d	
15	Ultimate depth of mining (in MSL)	Up to +155mMSL, Min & Max Depth in m – 20 m to 45 m.	
16	Quantity of topsoil estimated to be removed	The total quantity of waste to be generated from the lease area is 29737 Cu.m comprising top soil of 2379 Cu.m and over burden of 27358 Cu.m.	
17	Method of mining	Mechanized Open cast	
18	Underground mining if any proposed	No	
19	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 259-265)
		Water	Provided (c.f.pg. no. 267-277)
		Soil	Provided (c.f.pg. no. 281-283)
		Noise	Provided (c.f.pg. no. 279)
20	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 285)	
21	Waste management proposals	Provided (c.f.pg. no. 44)	
22	Mined area management	Provided (c.f.pg. no. 46)	
23	a) Undertaking responsibility for the proposal submitted	Provided (c.f.pg. no. 255); NO AFFIDAVIT	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f.pg. no. 289) ; NO AFFIDAVIT	
24	Affidavits for:	1. Constitution of Environment Monitoring Cell	Provided (c.f.pg. no. 291)
		2. Providing fire fighting system	
		3. Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	

25	Proposals for Corporate Social responsibility	Provided (c.f.pg. no. 100); not good
26	Total cost of the project with details	Rs. 94.87 lakhs, This is an existing projects and necessary funding is already made.
27	Soft copy of the proposal (in PDF format)	Yes
28	Details of Authorised Signatory	Mr. Paulson P Varkey – Managing Partner Pynadath House, Nayathodu P.O, Ernakulam District, Kerala. Pincode – 683 581. Mobile – 9388811452. Email - paulsonpvarkey@gmail.com

The proposal was considered in 46<sup>th</sup> meeting of SEAC held on 29<sup>th</sup> and 30<sup>th</sup>, September 2015. It was decided in the meeting to **DEFER** the item for field visit and for production of more realistic Corporate Social Responsibility (CSR). The site visit was conducted by subcommittee of SEAC on 02.12.2015, comprising Dr. E.A. Jayson, Dr. K.G. Padmakumar and Mr. P. Sreekumaran Nair. The proponent was also present at the site. The details of which are given below:

*“The project is for an existing quarry, located at about 3.5 km SE of Malayattoor, Kurisumudi and more than 12 km NE of Kaladi. The proposed quarry area falling in own land lies on a hillock with moderate to steep slopes to the east and south. Five meter benches should be strictly adhered. Top soil should be carefully stored in the designated place and should be made available for landscaping. Settling ponds should be constructed for allowing the water from the quarry to go outside. Warning boards are not in place and this has to be ensured before the operations are initiated. Dwelling units are not seen in the immediate vicinity of 100 m. Millisecond technology is to be used strictly. Protective fencing needed all over the quarry and inside the quarry to prevent any untoward incidents. Staff accommodation is in a pathetic condition and this should be improved and good buildings for canteen and accommodating the staff should be constructed. Permanent magazine should be in place as per the mining plan.*

*Based on an overall evaluation of the site, following points may be considered:*

- 1. Protective fencing must be provided along the boundary of the lease area.*
- 2. Over burden is to be stored in the designated places and provided with protective support walls.*
- 3. The drainage from the quarry must be channelised with proper desiltation and clarification mechanism and led into a RWH structure. Only clarified water is to be let out of the area.*
- 4. It is necessary to provide garland drains on the upper part and catch water drains at the lower levels of the lease area to safely dispose the storm water.*
- 5. The approach road to the quarry from the main road is a narrow road which must be widened and maintained in good condition by the proponent.*
- 6. The blasting time must be displayed and strictly adhered to. The PPV values must be less than 10 mm/sec and steps to be taken to limit fly rock to the quarry area.*

*Other items from general condition and detailed CSR may be added”.*

The proposal is placed before SEAC for appraisal



**Item No. 53.11 Environmental clearance for the quarry project in Sy. Nos. 138/7-2, 137/11, 139/11, 139/6, 138/8, 138/4, 139/3, 139/7-1, 139/7, 139/10, 137/12-2, 137/3, 137/7, 137/9, 137/12-1 at Ezhumattoor Village & Panchayath, Mallappally Taluk, Pathanamthitta District, Kerala by Sri. S. Raveendran (File No. 602/SEIAA/EC4/4629/2014)**

Sri. S. Raveendran, M/s Raveendra Rock Crushing Unit, Eduvinampoikayil House, Ezhumattoor P.O, Pathanamthitta District vide his application received on 30-9-2014 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 138/7-2, 137/11, 139/11, 139/6, 138/8, 138/4, 139/3, 139/7-1, 139/7, 139/10, 137/12-2, 137/3, 137/7, 137/9, 137/12-1 at Ezhumattoor Village & Panchayath, Mallappally Taluk, Pathanamthitta District, Kerala for an area of 3.4589hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within Latitude: 9°25'54.72'' to 9°25'45.88'' N and Longitude: 76°42'24.74'' to 76°42'18.42''E. The land use classification as per revenue records is rocky area with private land. The lease area consists of 3.4589hectares, which is part of the proposed land is already under mining. The current proposal is for the new quarry and mineral specific. Hence no alternate site was examined. The proposed project is for quarrying of 1,50,000 MTA of building stone. The proposed quarry is interlinked with a crusher unit within the complex. Forest land is not involved in the project. A total quantity of 19,024 m<sup>3</sup> of top soil will be removed and 10,377m<sup>3</sup> of over burden will be generated during the mining operations. *The proposed site falls in the Zone-III, moderate damage risk zone as per BMTPC, vulnerability atlas seismic zone of India IS:1893-2002.* As stated by the proponent, there is no litigation pending against the lease area / applicant of the lease area in any court of law. There are several houses within 500 m radius and the nearest house is 105 m at north west direction from the proposed quarry. Since the tenure of the SEIAA, Kerala had expired, the proponent submitted an application to MoEF directly for getting EC.

The matter was considered in the 30<sup>th</sup> meeting of EAC of MoEF held on 29-30<sup>th</sup> January 2015 and EAC sought for additional information. The proponent submitted documents as per the queries raised in the EAC meeting. Since SEIAA, Kerala has been constituted, MoEF returned the proposal to SEIAA as per the letter cited on its constitution as per letter No. Z-11013/24/2015-IA-II (M) dated 01-04-2015.

Hence the proposal was placed before 45<sup>th</sup> meeting of SEAC held on 11/09/15. The Committee decided to defer the item for field visit by subcommittee and to direct the proponent to submit the following.

1. The revised mining plan and letter of intent.
2. Specific proposal for performance of CSR.

The above mentioned details are not submitted by the proponent till date.

However, according to the decision field visit was conducted on 25.09.2015 by the sub-committee of SEAC. The Proponent with his representatives were present at the site at the time of site visit. The field inspection details are given below:-

*“The project is an active quarry located at about one km north of Ezhumattoor centre. This quarry lease area of 3.4589 ha falling in own land occupy summit and the west sloping flanks of a prominent hill ridge exposing hard rock. The elevation ranges from 145 m to 90 m. The rock type is charnockite suite of rocks with sub horizontal layers. Rock shows prominent widely spaced joints but faults are not observed in the site. Quarry is in operation with well developed benches from top to bottom of the presently working face. Pockets of weathered rock with about 1 m thick over burden (OB) and top soil is seen in the upper part and western part. The removed OB is stocked at convenient places based on the place of excavation. Part of it has been used for the restoration of an old quarry located to the north of the present working. The entire drainage from the elevated land including the quarry flows into the lower most pit from where it is pumped into an abandoned pit that is presently used as a RWH facility. Rubber plantation is the dominant landuse in the entire area where some amount of top soil is seen. The quarry area is mostly cleared of vegetation. Dwelling units are not seen in the immediate vicinity of 100 m. The unit does have an associated crusher unit. Accommodation to workers and canteen facilities are provided. The approach road is well maintained. The entire quarry lease is fenced and demarcated. Many active/ old workings are seen in the area, but total area is estimated to be less than 25 ha.*

*Based on an overall evaluation of the site, the quarry operations may be recommended with following conditions:*

- 1. Fencing provided all around the lease area must be maintained.*
- 2. Over burden should be stored in the designated places (not here and there) and provided with protective support walls. Part of it can be used for restoration of old quarries.*
- 3. The benches formed at different levels should follow the norms of 5m x 5m.*
- 4. Storm water drainage from the upper part must be channelised properly to the lowest part and let out through well defined channels. It should be connected to the RWH*
- 5. The RWH structure and water clarification mechanism must be provided and maintained throughout. Periodic desiltation is mandatory.*
- 6. Considering the topography, garland drains need not be insisted upon.*
- 7. Ultimate depth of mine which will depend on the possible benches of 5m width and 5m height in the lease area but should not be below the river bed of Manimala river located about 2 km to north.*
- 8. Other items from general conditions like a)Appropriate sign boards should be displayed, b) The blasting time must be displayed and strictly adhered to, c) The PPV values must be less than 10 mm/sec, d) Steps to be taken to limit fly rock to within the lease area. Rock fragments should not fall anywhere outside the lease area, e)Dust suppression mechanism must be in place f)A belt of trees (Vegetation belt) should be maintained all around the quarry but must be maintained till the entire life of quarry, g) A separate small plot to be maintained in the premise to preserve rare and endemic species, if any,listed in the biodiversity assessment and the promised activity under CSR may be added.’*

### **The Mining plan needs fresh approval**

The proposal is placed before SEAC for further appraisal .

**Item No.53.12**

**Environmental clearance for the quarry project in Sy. Nos. 364/16/40, 364/10/42, 364/11/43, 364/16/11, 364/16/27, 364/16/25, 364/16/32, 364/16/8, 364/16/37, 364/16/48, 364/17/18, 364/17/16, 364/16/4/30, 364/16/5/5, 364/16/6/6, 364/16/7/7, 364/16/8/34, 364/16/9/38, 364/21/22P and 364/21P at Mulayam Village , Nadathara Panchayath, Thrissur Taluk & District by Sri. Jenny John, Managing Director, M/s Valakkavu Granite Pvt. Ltd., Vattappara, Valakkavu (Via.), P.O., Mulayam, Thrissur - 680751. (File No. 608/SEIAA/EC1/4635/2014).**

Sri. Jenny John, Managing Director, M/s Valakkavu Granite Pvt. Ltd., Vattappara, Valakkavu (Via.), P.O., Mulayam, Thrissur - 680751 vide his application received on 25/09/2014 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. at 364/16/40, 364/10/42, 364/11/43, 364/16/11, 364/16/27, 364/16/25, 364/16/32, 364/16/8, 364/16/37, 364/16/48, 364/17/18, 364/17/16, 364/16/4/30, 364/16/5/5, 364/16/6/6, 364/16/7/7, 364/16/8/34, 364/16/9/38, 364/21/22P and 364/21P at Mulayam Village , Nadathara Panchayath, Thrissur Taluk & District for an area of 3.2457 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls in 10°31'17.69" N to 10°31'10.88" N Latitude and 76°18'34.54"E to 76°18'25.82"E Longitude. The land use classification as per revenue records is private own land with rocky area consists of 3.2457 hectares. The current proposal is for the existing quarry with lease area 3.2457 hectares and mineral specific. Hence no alternate site was examined. The proposed project is for quarrying of 120,000 MTA of building stone.

The proposal was placed in 46<sup>th</sup> meeting of SEAC held on 29/30/09/2015 for appropriate decision. The committee deferred the item for field visit and submission of revised mining plan with letter of intent as per KMMC rules 2015. Now the proponent has submitted mining plan with letter of intent as per KMMC Rules-2015. Field inspection report has received from SEAC subcommittee and the field inspection report details furnished below:-

“Field visit to the Quarry project site of M/S Valakkavu Granites Pvt. Ltd located in Survey Nos. 364/16/40, 364/10/42 & others at M/S Valakkavu Granites Pvt. Ltd, Vattapara, Valakkavu ( Via), P. O. Mulayam, Thrissur District, Kerala was carried out on 30.10.2015 by the sub-committee of SEAC, Kerala, comprising Dr. E.A. Jayson, Dr. K.G. Padmakumar and Sri. P. Sreekumaran Nair. The Proponent was also present at the site.

The project is an active quarry located at Mulayam Village, Nadathara Panchayath, Thrissur Taluk & District, Kerala. The method of operation is reported as through controlled blasting. The working faces are being modified by the formation of benches. This quarry area falling in own land is moderately sloping to northwest, exposing hard rock. Being an elevated land, streams are not seen in the site. However fairly good seepage of water is seen at the interface of rock. The entire drainage from the quarry is channelised through canals into North and drained water stored in two tanks for settling the silt. Dwelling units are not seen in the immediate vicinity of 100 m. The proposed rain harvesting facility of 7,000 KL

should be completed. The workers are provided with limited accommodation and canteen facilities.

Based on an overall evaluation of the site, following points may be considered:

1. Bench formation has been adopted recently. Main haulage is from the upper part on the southern side.
2. Over burden is partly stored in the western side but not in a planned manner. It must be stored in the designated places and provided with protective support.
3. The drainage from the quarry is currently directed to the North corner and let out. The deposited silt must also be cleaned periodically.
4. RWH pond must be provided at the lowest elevation in the North corner and can be in conjunction with the desiltation mechanism.
5. Considering the topography, garland drains need not be insisted upon.
6. The approach road to the quarry from the main road is not maintained at all. This road must be maintained in good condition by the proponent. Buffer distance from the road near the quarry may not be required as it ends at the quarry.
7. The blasting time must be displayed and strictly adhered to. The PPV values must be less than 10 mm/sec. Steps to be taken to limit fly rock to the quarry area.
8. Dust suppression mechanism must be in place.
9. In the absence of perennial streams in the vicinity, ultimate depth of mine will depend on the possible benches in the lease area.
10. Good growth of vegetation is seen all around the quarry including bamboo sp. which must be maintained till the entire life of quarry.”

The proposal is placed in next meeting of SEAC for appropriate decision.

**Item No. 53.13**

**Environmental clearance for the building stone quarry project in m Sy. Nos. 781/1-16, 781/1-21-126, 781/1-22, 781/1-26Pt, 781/1-28-D2, 781/1-28-20, 781/1-28-22, 781/1-28-24, 781/1-30 and 781/32 at Athikayam Village, Ranni Taluk, Pathanamthitta District, Kerala by Sri. KuriakoseSabu (File No. 621/SEIAA/EC4/4775/2014)**

Sri.Kuriakose Sabu, M/s Kavumkal Granites, Mukkuzhy, MalayalpuzhaEram P.O., Ranni, Pathanamthitta district vide his application received on 9-10-2014 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 781/1-16, 781/1-21-126, 781/1-22, 781/1-26Pt, ...781/1-28-D2, 781/1-28-20, 781/1-28-22, 781/1-28-24, 781/1-30 and 781/32 at Athikayam Village, Ranni Taluk, Pathanamthitta District, Kerala for an area of 10.9323 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within Latitude N 9°24'42.1'' to N 9°25'05.1'' and Longitude E 76°50'25.0'' to E 76°50'40.9''. The land use classification as per revenue records is private own land . The lease area consists of 10.9323 hectares. The proposed project is for quarrying of 5,70,000TPA of building stone. The expected life of mine will be 12 years. A total quantity of 41,250 tonnes of top soil and 20,800 tonnes per year of over burden (OB) will be generated. The project does not require approval/clearance under forest conservation act or Wild life protection act or CRZ notification, since there is no declared biosphere reserve, wild life sanctuaries, or tiger sanctuary or migrating corridor, coastal zone etc in the core zone and 10 km buffer zone.

The proponent has submitted mining plan as approved by the Geologist, Pathanamthitta. M/s Kavumkal Granites filed petition, WP (C) No. 32863 of 2015 before the Hon'ble High Court of Kerala in which the Hon'ble High Court of Kerala passed a judgement dated 29-10-2015 stating that the application by petitioner shall be considered by SEIAA within a period of 'one month'. The application was placed in 49 th SEAC held on 6,7 November 2015. Since the quarry is proposed in a steep area, the committee felt that field inspection is necessary. Hence the item was **deferred** for field inspection and the production of a more realistic Social responsibility proposal. Field inspection was conducted on 30.01.2016 by the subcommittee members.

Field inspection details are given below:

*“The project is located at about three km north of Athikayam and about two km south south west of Vechoochira. This quarry lease area of 10.9323 ha falling in proponents own land occupy the south western slopes of a prominent hillock (Chempanmudi) exposing hard rock. The boundaries of the area are demarcated but permanent pillars or fencing were not provided. This is a well developed quarry with benches especially in the north western part but not in operation currently. On enquiry it is reported that the operation of the quarry was closed due to public agitation on account of earth material being washed down the slope and affecting the plots down the slope. The slope is moderate to steep. The rock type is a charnockite and its variants with sub-horizontal foliation. Pockets of weathered rock with*

*more than 2 m thickness of over burden (OB) and top soil are seen interspersed with rock out crops. The drainage from the elevated land is channelised through the natural hollows with ill defined channel bed. Abandoned pits that were acting as RWH structures have been filled up as per the suggestions of GSI. Rubber plantation is the dominant landuse in the vicinity. Floral biodiversity is not observed as the area is considerably disturbed. No dwelling units were observed within 100 of the proposed quarry area. A crusher unit is associated with the quarry. Another quarry is functioning within 500m but the total area as estimated from satellite image is less than 25 ha.*

*Based on an overall evaluation of the site, the quarry operations may be recommended with following conditions:*

- 1. The exact area to be quarried as per the mine plan should be demarcated on the ground, provided with permanent boundary pillars and fenced. The coordinates of the boundary pillars should be documented and displayed.*
- 2. Considering the steep disposition of the land and it occupying the upper slope, the operation should necessarily begin from the top most part.*
- 3. Benches should be formed along the contours and not across it as it will lead to formation of deep pits that are not desirable in the upper slope*
- 4. Considering an elevation difference of 120 m every sixth bench- at a elevation difference of 25 m- should have a width of at least 8 m. This is to arrest and accommodate any object that is likely to be dislodged and move down from the upper slopes.*
- 5. The base of such benches must be provided with guided storm water channels to channelise the runoff to the natural flow channels.*
- 6. The storage of OB and top soil should be in such a way that it will not be dislodged under any circumstances. Retaining walls or such structures should be provided. It can also be used for concurrent eco-restoration of excavated benches with vegetation cover.*
- 7. The natural flow channels conducting storm water down the slope- three channels are observed- must be well defined with in the property of the proponent.*
- 8. A clear buffer distance of 100 m should be provided from the HT tower line to the quarry face.*
- 9. Considering the topography catch water drain should be provided close to the lower boundary. The storm water should be clarified by suitable mechanism before it is let out.*
- 10. Collection of rainwater on the upper slopes in pits should be avoided.*
- 11. Ultimate depth of mine should not exceed the lower ground level of the lease area.*
- 12. Blasting should be restricted to two times a day at predefined time. It must be avoided in seasons of prolonged rainfall.*

*The CSR need redrafting with inclusion of felt needs of the locality.”*

Revised CSR is not yet submitted. Now the proposal is placed before SEAC for appraisal.

**Item No.53.14 Environmental clearance for the quarry project in Sy. No. 404/2(part), 412/2, 4(part) at Kummil village, Kottarakara Taluk, Kollam District, Kerala Sri. M. K. Biju, Karthika, Kottarakara (taluk), Kollam for M/s. Karthika Granite Quarry, Kallutheri (File No. 635/SEIAA/KL/4906/2014)**

Shri. M. K. Biju, Karthika, Kottarakara (taluk), Kollam vide his application received on 10-10-2014, has sought Environmental Clearance under EIA Notification, 2006 for M/s. Karthika Granite Quarry, Kallutheri in Sy. No. 404/2(part),412/2,4(part) at Kummil village, Kottarakara Taluk, Kollam District, Kerala for an area of 0.8440 Hectares (Lease area- 0.44.80 hec, NOC area- 0.39.60 hec). The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within Latitude: 8°48'36.1" To 8°48'40.3" Longitude: 76°55'44.1 To 76 °55'51.2". The lease area consists of 0.8440 Hectares (Lease area- 0.44.80 hec, NOC area- 0.39.60 hec), which is private and Govt. land for lease. But not mentioned about the quarrying permit of Sri. Abdull Rahman Labba and his wife Fazeela Beevi, the owner of Sy. No. 412/2,4 (part). The applicant may applying for quarrying lease in the Sy. No. 432/4. The proposed project is for quarrying of 12500 tonnes/year of building stone. Distance of the mining area from the nearest human settlement is recorded as 2 km which has no proof been given. Eventhough it is an existing quarry seeking for renewal the corporate social responsibility is least satisfyingly signified. Area survey map with declaration has not been submitted. 500 m radius image has not been furnished by the proponent. Waste management has not been seriously considered.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1	Category/Sub category & Schedule	<i>Category B2, 1(a), (i)</i>
2	Form I	Provided (c.f.pg. no. 8-25)
	Questionnaire for mining projects	Provided (c.f.pg. no. 26-32)
	Pre-feasibility report	Provided (c.f.pg. no. 33-41)
	Environment Management Plan	Provided (c.f.pg. no. 42-52)
3	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No ; Kottarakkara is a ESZ taluk
4	Proof of ownership of land	Provided (c.f.pg. no. 57-62), 404/2 has no proof
5	Proof of authorized signatory	Provided (c.f.pg. no. 75-76)
6	Cadastral map duly signed by Village Officer	Provided (c.f.pg. no. 77-78)
7	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 79-80)
8	Area survey plan approved by Village officer	Provided (c.f.pg. no. 70); no declaration
9	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 82), no radius map

	GPS readings in WGS 84 datum	Latitude: 8°48'36.1" To 8°48'40.3" Longitude: 76°55'44.1 To 76°55'51.2"	
10	Distance of the mining area from the nearest human settlement	2 km ; no proof	
11	Right & nature of ownership of land	Pvt. and Govt. for lease	
12	Is the property forest land/govt. land/own land	Pvt. and Govt. for lease	
13	Extent of land in hectares	0.8440 ha	
14	Proposed production capacity	12500 m <sup>3</sup> /y	
15	Ultimate depth of mining (in MSL)	30 m	
16	Quantity of topsoil estimated to be removed	NA	
17	Method of mining	Open cast	
18	Underground mining if any proposed	No	
19	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 83-86)
		Water	Provided (c.f.pg. no. 92-95)
		Soil	Provided (c.f.pg. no. 91)
		Noise	Provided (c.f.pg. no. 87-90)
20	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 97)	
21	Waste management proposals	not good; (c.f.pg. no. 16)	
22	Mined area management	not given	
23	a) Undertaking responsibility for the proposal submitted	Provided (c.f.pg. no. 105); NO AFFIDAVIT	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f.pg. no. 106) NO AFFIDAVIT	
24	Affidavits for:	1. Constitution of Environment Monitoring Cell	Provided (c.f.pg. no. 107)
		2. Providing fire fighting system	
		3. Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	
25	Proposals for Corporate Social responsibility	Provided (c.f.pg. no. 51), Not good	
26	Total cost of the project with details	2 Cr.	
27	Soft copy of the proposal (in PDF format)	Yes (word)	
28	Details of Authorised Signatory	M.K.Biju, Karthika,	



		Kuttikad(p.o), Kadakkal , Kottarakara (taluk), Kollam (district), Kerala. Mobile no: 09447141900. <u><a href="mailto:Email-karthikambiju@gmail.com">Email-karthikambiju@gmail.com</a></u>
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The proponent submitted revised mining plan as per KMMC Rule, 2015. Hence, the proposal is placed before SEAC for appraisal.

**Item No.53.15**

**Environmental clearance for the quarry project in Sy. No. 158/6, 158/12-2, 158/5, 158/11, 161/1 at Ittiva Village, Kottarakkara Taluk, Kollam District, Kerala by M. K. Biju, Kadakkal, Kottarakkara, Kollam Dist for M/s Karthika Granites (File No. 637/SEIAA/KL/4908/2014)**

M. K. Biju, Karthika, Kuttikad (P.O), Kadakkal , Kottarakkara (taluk), Kollam vide his application received on (date of application), has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 158/6, 158/12-2, 158/5, 158/11, 161/1 at Ittiva Village, Kottarakkara Taluk, Kollam District, Kerala for an area of 2.4240 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within Latitude: 8°51'37.2" to 8°51'45.5" Longitude: 76°54'18.9" to 76°54'25.8". The rough Stone Quarry is being operated in the ITTIVA village SF No.161/1(part), 158/5,6,11,12 under two quarry leases. Also applying for quarry leases for the adjacent patta land owned by the company EC application is submitted for the total extent of 2.42.40 Hect. The period of lease applying is for 15 years. Existing Capacity/Area of production is 9000 tonnes per annum but the proposed production is 40000 tpy. Distance of the mining area from the nearest human settlement is not mentioned specifically. Even though it is an existing quarry seeking for renewal the corporate social responsibility is least bothered. No underground mining is permitted, hence all the activities should be ceased above 2 m ground level, but pits with water is well clear in photographs.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i) (if so)</i>
2.	Form I	Provided (c.f.pg. no. 8-26)
	Questionnaire for mining projects	Provided (c.f.pg. no. 27-35)
	Pre-feasibility report	Provided (c.f.pg. no. 36-45)
	Environment Management Plan	Provided (c.f.pg. no. 46-56)
3.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	ESZ3- Kottarakkara is ESZ taluk
4.	Proof of ownership of land	Not given
5.	Proof of authorized signatory	Provided (c.f.pg. no. 114-115)
6.	Cadastral map duly signed by Village Officer	Provided (c.f.pg. no. 116)
7.	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 118-119)
8.	Area survey plan approved by Village officer	Not given
9.	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 121) NOT CORRECT
	GPS readings in WGS 84 datum	Latitude : 8 °51'37.2" To 8°51'45.5" Longitude : 76 °54'18.9" To 76 °54'25.8" INCOMPLETE

10.	Distance of the mining area from the nearest human settlement	NOT GIVEN	
11.	Right & nature of ownership of land	Own and Govt land (58/11)	
12.	Is the property forest land/govt. land/own land	Own and Govt land (58/11)	
13.	Extent of land in hectares	-Discrepancy- in CD another survey no. has given 161/1	
14.	Proposed production capacity	40000 tpy	
15.	Ultimate depth of mining (in MSL)	30 m	
16.	Quantity of topsoil estimated to be removed	NA	
17.	Method of mining	Open cast	
18.	Underground mining if any proposed	No ; but pits are noticed in photograph	
19.	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 122-125)
		Water	Provided (c.f.pg. no. 129-131, 133-135)
		Soil	Not given
		Noise	Provided (c.f.pg. no. 126-128& 132)
20.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 136)	
21.	Waste management proposals	Provided (c.f.pg. no. 19-21)	
22.	Mined area management	Not given	
23.	a) Undertaking responsibility for the proposal submitted	Provided (c.f.pg. no. 145; NO AFFIDAVIT)	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f.pg. no. 146) NO AFFIDAVIT	
24.	Affidavits for:	304 Constitution of Environment Monitoring Cell	Provided (c.f.pg. no. 147)
		305 Providing fire fighting system	
		306 Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	
25.	Proposals for Corporate Social responsibility	NOT GOOD	
26.	Total cost of the project with details	3 Cr	
27.	Soft copy of the proposal (in PDF format)	Yes in word format	

28.	Details of Authorised Signatory	M.K.BIJU, Karthika, Kuttikad(p.o), Kadakkal , Kottarakara (taluk), Kollam (district), Kerala. Mobile no: 09447141900. Email-karthikambiju@gmail.com
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The proponent submitted revised mining plan as per KMMC Rule, 2015. Hence, the proposal is placed before SEAC for appraisal.

**Item No.53.16 Environmental clearance for the quarry project in Sy. No. 432/3(part), 432/4 at Kummil village, Kottarakara Taluk, Kollam District, Kerala Sri. M. K. Biju, Karthika, Kottarakara (taluk), Kollam for M/s. Karthika Granite Quarry, Cherukara (File No. 638/SEIAA/KL/4909/2014)**

Shri. M. K. Biju, Karthika, Kottarakara (taluk), Kollam vide his application received on 16-09-2014, has sought Environmental Clearance under EIA Notification, 2006 for M/s. Karthika Granite Quarry, Cherukara in Sy. No. 432/3(part), 432/4 at Kummil village, Kottarakara Taluk, Kollam District, Kerala for an area of 1.4572 Hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within Latitude: 8°48'15.6" To 8°48'21.9" Longitude: 76° 55'52.6" To 76 °55'50.1". The lease area consists of 1.4572 hectares, which is private and Govt. land for lease. The applicant may applying for quarrying lease in the Sy. No. 432/4. The proposed project is for quarrying of 20000 tonnes/year of building stone. Distance of the mining area from the nearest human settlement is recorded as 2 km which has no proof been given. Even though it is an existing quarry seeking for renewal the corporate social responsibility is least satisfyingly signified. Area survey map with declaration has not been submitted. 500 m radius image has not been furnished by the proponent. Waste management has not been seriously considered.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i)</i>
2.	Form I	Provided (c.f.pg. no. 8-25)
	Questionnaire for mining projects	Provided (c.f.pg. no. 26-33)
	Pre-feasibility report	Provided (c.f.pg. no. 34-42)
	Environment Management Plan	Provided (c.f.pg. no. 43-54)
3.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No ; Kottarakara is a ESZ taluk
4.	Proof of ownership of land	Provided (c.f.pg. no. 61 &83)
5.	Proof of authorized signatory	Provided (c.f.pg. no. 93)
6.	Cadastral map duly signed by Village Officer	Provided (c.f.pg. no. 94-95)
7.	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 99)
8.	Area survey plan approved by Village officer	Provided (c.f.pg. no. 94-95)
9.	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 27), no radius map
	GPS readings in WGS 84 datum	Latitude : 8°48'15.6" To 8°48'21.9" Longitude : 76°55'52.6" To 76°55'50.1"
10.	Distance of the mining area from the nearest human settlement	2 km ; no proof
11.	Right & nature of ownership of land	Pvt. and Govt. for lease
12.	Is the property forest land/govt. land/own land	Pvt. and Govt. for lease

13.	Extent of land in hectares	1.4572 ha	
14.	Proposed production capacity	20000 m <sup>3</sup> /y	
15.	Ultimate depth of mining (in MSL)	35 m	
16.	Quantity of topsoil estimated to be removed	NA	
17.	Method of mining	Mechanized Open cast	
18.	Underground mining if any proposed	No	
19.	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 100-103)
		Water	Provided (c.f.pg. no. 108-109)
		Soil	Provided (c.f.pg. no. 110)
		Noise	Provided (c.f.pg. no. 104-107)
20.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 112-113)	
21.	Waste management proposals	not given	
22.	Mined area management	not given	
23.	a) Undertaking responsibility for the proposal submitted	Provided (c.f.pg. no. 119); NO AFFIDAVIT	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f.pg. no. 120) NO AFFIDAVIT	
24.	Affidavits for:	307 Constitution of Environment Monitoring Cell	Provided (c.f.pg. no. 121)
		308 Providing fire fighting system	
		309 Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	
25.	Proposals for Corporate Social responsibility	Provided (c.f.pg. no. 53), Not good	
26.	Total cost of the project with details	2 Cr.	
27.	Soft copy of the proposal (in PDF format)	Yes (word)	

28.	Details of Authorised Signatory	M.K.Biju, Karthika, Kuttikad(p.o), Kadakkal , Kottarakara (taluk), Kollam (district), Kerala. Mobile no: 09447141900. <u><a href="mailto:Email-karthikambiju@gmail.com">Email-karthikambiju@gmail.com</a></u>
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The proponent submitted revised mining plan as per KMMC Rule, 2015. Hence, the proposal is placed before SEAC for appraisal.

**Item No.53.17 Environmental clearance for the quarry project in Sy. Nos. 137/10 (p), 85/1, 85/2(p) and 84/5 (p) at Valmboor Village, Perinthalmanna Taluk, Malappuram District, Kerala by Sri. P. Abdul Nassar for M/s. Valmboor Granites. (File No. 756/SEIAA/KL/331/2015).**

**Sri. P. Abdul Nassar, Proprietor, M/s. Valmboor Granites, Puvadhilgal House, Kruvampara, Pattikkad Post, Perinthalmanna Taluk, Malappuram District** vide his application received on 02/02/2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 137/10 (p), 85/1, 85/2(p) and 84/5 (p) at Valmboor Village, Perinthalmanna Taluk, Malappuram District, for an area of 3.318 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls in 11°01'0.28" N to 11°00'51.68" N Latitude and 76°12'11.49" E to 76°12'2.22" E Longitude. The land use classification as per revenue records is private own land. The lease area consists of 3.318 hectares, which is private land. . The current proposal is for the quarry with mineral specific. Hence no alternate site was examined. The proposed project is for quarrying of 7095m<sup>3</sup> of building stone.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i)</i>
2.	Form I	Provided (c.f.pg. no. 8-21)
3.	Questionnaire for mining projects	Provided (c.f.pg. no. 23-33)
4.	Pre-feasibility report	Provided (c.f.pg. no. 35-51)
5.	Environment Management Plan	Provided in PFR (c.f.pg. no. 53-83)
6.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No
7.	Proof of ownership of land	Copy of tax receipt/possession certificate, Copy of consent from the owners, Sale deed (c.f.pg. no. 87-155).
8.	Proof of authorized signatory	Affidavit on stamped paper is provided (c.f.pg. no. 85).
9.	Cadastral map duly signed by Village Officer	Provided (c.f.pg. no.180)
10.	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 162)
11.	Area survey plan approved by Village officer	Provided (c.f.pg. no.181)
12.	Panoramic view of the site /Google image with date	Provided (c.f.pg. no.163)
13.	GPS readings in WGS 84 datum	11°01'0.28" N to 11°00'51.68" N Latitude and 76°12'11.49" E to 76°12'2.22" E Longitude (c.f.pg. no. 43)
14.	Distance of the mining area from the nearest	500m.



	human settlement	
15.	Right & nature of ownership of land	Private land
16.	Is the property forest land/govt. land/own land	Private own land
17.	Extent of land in hectares	3.318
18.	Proposed production capacity	7095m <sup>3</sup> .
19.	Ultimate depth of mining (in MSL)	30m above ground level
20.	Quantity of topsoil estimated to be removed	22350 m <sup>3</sup>
21.	Method of mining	Semi-mechanised open cast mining.
22.	Underground mining if any proposed	Not Applicable
23.	Analysis reports from accredited laboratories	Air Provided (c.f.pg. no. 156)
24.		Water Provided (c.f.pg. no.157-160)
25.		Soil Not provided
26.		Noise Provided (c.f.pg. no. 161)
27.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 165-166)
28.	Waste management proposals	Provided in the PFR-EMP (c.f.pg. no.43 & 50)
29.	Mined area management	Mine closure plan is provided (c.f.pg. no.71)
30	a) Undertaking responsibility for the proposal submitted	Provided (c.f.pg. no.02)
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f.pg. no.179)
31.	Affidavits for:	1.Constitution of Environment Monitoring Cell
		2.Providing fire fighting system
		3.Providing systems to minimize dust emissions
		4.To provide adequate safety measures for the construction workers during the construction phase
		5.To upload the following in the website of the project: a)EC order b)Status of compliance of the stipulated EC conditions C)Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned
		Provided (c.f.pg. no. 167)
32.	Proposals for Corporate Social responsibility	Provided in EMP(c.f.pg. no.73)
33.	Total cost of the project with details	50 Lakhs
34.	Soft copy of the proposal (in PDF format)	Provided (c.f.pg. no. 189)
35.	Details of Authorised Signatory	Sri. P. Abdul Nassar, Proprietor, M/s. Valmboor Granites, Puvadhilgal House, Kruvampara, Pattikkad Post, Perinthalmanna Taluk, Malappuram District -679325 Mobile No: 9847921691

The proposal was first placed in the 46<sup>th</sup> the SEAC meeting held on 29-30/09/2015 and the committee deferred the item for the production of more realistic CSR and for field inspection

Now the field inspection report has been received from SEAC subcommittee and proponent also submitted the more realistic CSR. The details of field inspection are furnished below

“The subcommittee of SEAC consisting of Dr. Khaleel Chovva and dr. P.S. Harikumar visited the quarry project on 13/12/2015 in Sy NoS. 137/10(P), 85/1, 85/2(P), 84/5(P) at Valampoor village, Perinthalmanna Taluk, Malappuram District of M/s Valamboor Quarry. The proponent M.P. Abdul Nasar present at the site.

It is an existing active quarry. There are some abandoned mine pits nearby. Overburden is found stored separately where tree planting is possible. Open cast semi mechanised method is practised and benching is just started. The drainage from quarry is collected in an artificial pit for desiltation and clearing. Vegetation is seen around the quarry with common local plants which are having status of least concern. 3.318 ha area is proposed for quarrying. No houses or settlements nearby.

Conditions to be added

1. Quarrying should be strictly limited to 3.3 ha as proposed.
2. Proper fencing and sign boards must be fixed all around
3. The approach road is properly maintained. Entry of large vehicles may be restricted
4. Retaining wall should be maintained at lower slope to avoid leaching.”

Hence the proposal is placed before the next SEAC for further appraisal.

## Day – 2 (26.02.2016)

**Item No.53.18**      **Environmental clearance for the quarry project in Sy. No. 3/1-1, 1-2, 1-3 at Mookkannoor village, Aluva Taluk, Ernakulam District, Kerala by Sri. Shaju P.V. – Managing Partner, M/s. Palissery Granites, Ernakulam District for M/s. Palissery Granites (File No. 673/SEIAA/KL/5352/2014)**

Sri. Shaju P.V. – Managing Partner, M/s. Palissery Granites, Ernakulam District. vide his application received on (07/11/2014), has sought Environmental Clearance under EIA Notification, 2006 for the existing quarry project in Sy. No. 3/1-1, 1-2, 1-3 at Mookkannoor village, Aluva Taluk, Ernakulam District, Kerala by Sri. Shaju P.V. – Managing Partner, M/s. Palissery Granites, Ernakulam District, Kerala for an area of 1.6225 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within 10°15'51.75" -76°24'59.14", 10°15'56.68" - 76°24'57.16", 10°15'53.51" - 76°24'55.14", 10°15'56.65" - 76°24'57.16". The lease area consists of 1.6225 hectares, which is own land. The proposed project is for quarrying of 250 tpd of building stone. Distance of the mining area from the nearest human settlement is recorded as more than 268 m for which no proof is given. Even though it is an existing quarry seeking for renewal, the corporate social responsibility is not being carried out except which is shown in Enclosure 1.

### OTHER DETAILS OF THE PROJECT PROPOSAL

1	Category/Sub category & Schedule	<i>Category B2, 1(a), (i) (if so)</i>
2	Form I	Provided (c.f.pg. no. 9-23)
	Questionnaire for mining projects	Provided (c.f.pg. no. 24-29)
	Pre-feasibility report	Provided (c.f.pg. no. 31-66)
	Environment Management Plan	Provided (c.f.pg. no. 100-114)
3	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No
4	Proof of ownership of land	Lease; but own land; Provided (c.f.pg. no. 207-209)
5	Proof of authorized signatory	Provided (c.f.pg. no. 219-221)
6	Cadastral map duly signed by Village Officer	Provided (c.f.pg. no. 215)
7	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 217-218)
8	Area survey plan approved by Village officer	Provided (c.f.pg. no. 211)
9	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 86-87), 7 quarries in cluster, no more details
	GPS readings in WGS 84 datum	10°15'51.75" -76°24'59.14" 10°15'56.68" - 76°24'57.16" 10°15'53.51" - 76°24'55.14" 10°15'56.65" - 76°24'57.16"

10	Distance of the mining area from the nearest human settlement	>268 m ; no proof	
11	Right & nature of ownership of land	Own land in lease	
12	Is the property forest land/govt. land/own land	Own land	
13	Extent of land in hectares	1.6225 ha	
14	Proposed production capacity	250 tpd	
15	Ultimate depth of mining (in MSL)	Up to 20m AMSL and Minimum & Maximum depth : 28m & 65m	
16	Quantity of topsoil estimated to be removed	Top soil - 1,653 m3 Overburden - 14,878 m3 Total Waste - 16,532 m3	
17	Method of mining	Mechanized Open cast	
18	Underground mining if any proposed	No	
19	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 237-243)
		Water	Provided (c.f.pg. no. 245-263)
		Soil	Provided (c.f.pg. no. 265-257)
		Noise	Provided (c.f.pg. no. 269-271)
20	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 273)	
21	Waste management proposals	Not satisfactory	
22	Mined area management	Not satisfactory	
23	a) Undertaking responsibility for the proposal submitted	Provided (c.f.pg. no. 227; NO AFFIDAVIT)	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f.pg. no. 233; NO AFFIDAVIT)	
24	Affidavits for:	310 Constitution of Environment Monitoring Cell	Provided (c.f.pg. no. 279)
		311 Providing fire fighting system	
		312 Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	

25	Proposals for Corporate Social responsibility	NOT given
26	Total cost of the project with details	Not given
27	Soft copy of the proposal (in PDF format)	Yes
28	Details of Authorised Signatory	Sri. Shaju P.V. – Managing Partner M/s. Palissery Granites, Padayatty House, Puthenvelikara P.O., Ernakulam District, Kerala - 683594 Mobile No: 9605463321 E.mail: shaju8844@gmail.com

The proponent submitted revised mining plan as per KMMC Rule, 2015. Hence, the proposal is placed before SEAC for appraisal.

**Item No.53.19**

**Environmental clearance for the quarry project in Sy. No. 261/5-2, 261/6-2, 262/3-4, 261/6-4, 261/5-3, 260/8, 260/5-2, 262/1-3, 262/1-4, 260/11, 260/10, 260/3-2, 260/7-3, 260/9-2, 259/8, 259/3-2, 259/1-2, 64/1-176, Ayyampuzha Village, Aluva Taluk, Ernakulam District, Kerala by Sri.. P. J. Jacob, Managing Director, Ernakulam District for Angel Granites And Crushers Private Limited. (File No. 690/SEIAA/KL/5642/2014)**

Mr. P. J. Jacob, Managing Director, 32/2982 B1, Sahrudaya Buildings, Ponnuruni, Ernakulam District. vide his application received on nil (date of application), has sought Environmental Clearance under EIA Notification, 2006 for the ongoing quarry project in Sy. No. 261/5-2, 261/6-2, 262/3-4, 261/6-4, 261/5-3, 260/8, 260/5-2, 262/1-3, 262/1-4, 260/11, 260/10, 260/3-2, 260/7-3, 260/9-2, 259/8, 259/3-2, 259/1-2, 64/1-176, Ayyampuzha Village, Aluva Taluk, Ernakulam District, Kerala for an area of of 4.8646 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within Latitude (N) 10°14'25.291"N Longitude (E) 76°27'35.777"E. The lease area consists of 4.8646 hectares, which is private own land. The proposed project is for quarrying of 81241 m<sup>3</sup> per year of building stone. Distance of the mining area from the nearest human settlement is recorded as more than 600 m, but no proof has been submitted. Even though it is an existing quarry seeking for renewal the corporate social responsibility is least focused. No details on Cluster quarries have been mentioned in the proposal. In the area survey plan no declaration of village officer has been recorded.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i) (if so)</i>
2.	Form I	Provided (c.f.pg. no. 4-16)
	Questionnaire for mining projects	Provided (c.f.pg. no. 18-21)
	Pre-feasibility report	Provided (c.f.pg. no. 22-80)
	Environment Management Plan	Provided (c.f.pg. no. 81-88)
3.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No
4.	Proof of ownership of land	Provided (c.f.pg. no. 424-462)
5.	Proof of authorized signatory	Provided (c.f.pg. no. 464-470)
6.	Cadastral map duly signed by Village Officer	Not given
7.	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 32); no date
8.	Area survey plan approved by Village officer	Provided (c.f.pg. no. 476); no statement/ declaration
9.	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 28-30) not marked cluster quarries

	GPS readings in WGS 84 datum	Latitude (N) <b>10°14'25.291"N</b> Longitude (E) <b>76°27'35.777"E:</b> <b>incomplete</b>	
10.	Distance of the mining area from the nearest human settlement	600 m; no proof	
11.	Right & nature of ownership of land	Own	
12.	Is the property forest land/govt. land/own land	Own	
13.	Extent of land in hectares	4.8646 ha	
14.	Proposed production capacity	81241 m <sup>3</sup> / year	
15.	Ultimate depth of mining (in MSL)	30 m	
16.	Quantity of topsoil estimated to be removed	NA	
17.	Method of mining	Open cast, semi mechanised	
18.	Underground mining if any proposed	No	
19.	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 478)
		Water	Provided (c.f.pg. no. 484)
		Soil	Provided (c.f.pg. no. 482)
		Noise	Provided (c.f.pg. no. 480)
20.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 486)	
21.	Waste management proposals	Not satisfactory	
22.	Mined area management	Not satisfactory	
23.	a) Undertaking responsibility for the proposal submitted	Provided (c.f.pg. no. 496; NO AFFIDAVIT)	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f.pg. no. 498)	
24.	Affidavits for:	313 Constitution of Environment Monitoring Cell	Provided (c.f.pg. no. 500-502)
		314 Providing fire fighting system	
		315 Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	
25.	Proposals for Corporate Social responsibility	NOT GOOD Provided (c.f.pg. no. 88)	
26.	Total cost of the project with details	100 lac	
27.	Soft copy of the proposal (in PDF format)	Yes	
28.	Details of Authorised Signatory	Mr. P. J. Jacob,	

		Managing Director, 32/2982 B1, Sahrudaya Buildings, Ponnurunni, Ernakulam District, Kochi – 682 019 Ph. : 0484 – 2332171 E-mail id: metrokochi@hotmail.com
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The proponent submitted revised mining plan as per KMMC Rule, 2015. Hence, the proposal is placed before SEAC for appraisal.



**Item No.53.20**

**Environmental clearance for the quarry project in Sy. No. 324/4(P), 324/5(P) & 325/15(P), Pattimattom Village, Kunnathunadu Taluk, Ernakulam, for M/s. Cement Bricks & Allied Industries and 317/2, 317/4 & 324/5(P) Pattimattom Village, Kunnathunadu Taluk, Ernakulam, for M/s. Kizhakkambalam Granites Kerala by Shri. Sri. Paul Varghese, M/s. Cement Bricks & Allied Industries / M/s. Kizhakkambalam Granites (File No. 724/SEIAA/KL/6074/2014)**

Sri. Paul Varghese, M/s. Cement Bricks & Allied Industries / M/s. Kizhakkambalam Granites, Kizhakkambalam Village, Kunnathunadu Taluk, Ernakulam District vide his application received on nil, has sought Environmental Clearance under EIA Notification, 2006 for the Proposed Expansion of Building Stone Quarry in Sy. No. 324/4(P), 324/5(P) & 325/15(P), Pattimattom Village, Kunnathunadu Taluk, Ernakulam, for M/s. Cement Bricks & Allied Industries and 317/2, 317/4 & 324/5(P) Pattimattom Village, Kunnathunadu Taluk, Ernakulam, for M/s. Kizhakkambalam Granit, Kizhakkambalam Village, Kunnathunadu Taluk, Ernakulam District, Kerala for an area of 3.263 Hectares (M/s. Cement Bricks & Allied Industries has a Lease area: 2.0220 Ha and Capacity - 200 TPD; M/s. Kizhakkambalam Granites has Lease area: 1.2410 Ha. With Capacity - 400 TPD). The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within N 10° 02' 21.69" - N 10°02' 31.4" E 76°26' 6.17" - E 76°26' 13.3". The lease area consists of 3.263 hectares, which is own and *patta* lease land. The proposed project is for quarrying of 600 tpd of building stone. Minimum distance of the mining area from the nearest human settlement is recorded as 65 m away (from lease boundary of M/s. Cement Bricks and Allied Industries) Habitation – 55 m away (from lease boundary of M/s. Kizhakkambalam Granites. Even though it is an existing quarry seeking for renewal the corporate social responsibility is least focused. GPS points given are incomplete (only for to ends). In c.f.pg.no.219 it is mentioned about a wpc 25379/2006. They claim that the entire lease area is own land with original titled deed and is in lessee possession.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i) (if so)</i>
2.	Form I	Provided (c.f.pg. no. 12)
	Questionnaire for mining projects	Provided (c.f.pg. no. 29)
	Pre-feasibility report	Provided (c.f.pg. no. 35)
	Environment Management Plan	Provided (c.f.pg. no. 143)
3.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No
4.	Proof of ownership of land	Provided (c.f.pg. no. 327-349)
5.	Proof of authorized signatory	Provided (c.f.pg. no. 357-361)
6.	Cadastral map duly signed by Village Officer	Provided (c.f.pg. no. 353)
7.	Recent photographs of the project site with	Provided (c.f.pg. no. 355-356)

	digital dates of the camera		
8.	Area survey plan approved by Village officer	Provided (c.f.pg. no. 351) : <b>c.f.pg.no. 219 details of WPC 25379/2006</b>	
9.	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 128-129)	
	GPS readings in WGS 84 datum	N 10° 02' 21.69" - N 10°02' 31.4" E 76°26' 6.17" - E 76°26' 13.3" incomplete	
10.	Distance of the mining area from the nearest human settlement	Provided (c.f.pg. no. 30) – 65 m away (from lease boundary of M/s. Cement Bricks and Allied Industries) Habitation – 55 m away (from lease boundary of M/s. Kizhakkambalam Granites)	
11.	Right & nature of ownership of land	Own land / lease	
12.	Is the property forest land/govt. land/own land	Own	
13.	Extent of land in hectares	M/s. Cements Bricks & Allied Industries - 2.0220 Ha M/s. Kizhakkambalam Granites – 1.2410 Ha	
14.	Proposed production capacity	M/s. Cements Bricks & Allied Industries - 200 Tonnes per day (TPD) M/s. Kizhakkambalam Granites – 400 TPD	
15.	Ultimate depth of mining (in MSL)	M/s. Cements Bricks & Allied Industries: Upto -40 m AMSL, Maximum & Minimum Depth: 87.5m & 83.5m M/s. Kizhakkambalam Granites : Upto +00 m AMSL Maximum & Minimum depth: 46 m to 43m	
16.	Quantity of topsoil estimated to be removed	NA	
17.	Method of mining	Mechanized Open cast	
18.	Underground mining if any proposed	No	
19.	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 375-383)
		Water	Provided (c.f.pg. no. 385-401)
		Soil	Provided (c.f.pg. no. 407-413)
		Noise	Provided (c.f.pg. no. 403-405)
20.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 415)	

21.	Waste management proposals	Provided (c.f.pg. no. 56)
22.	Mined area management	Provided (c.f.pg. no. 58)
23.	a) Undertaking responsibility for the proposal submitted	Provided (c.f.pg. no. 371; NO AFFIDAVIT)
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f.pg. no. 419)
24.	Affidavits for:	316 Constitution of Environment Monitoring Cell
		317 Providing fire fighting system
		318 Providing systems to minimize dust emissions
		4. To provide adequate safety measures for the construction workers during the construction phase
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned
		Provided (c.f.pg. no. 421-423)
25.	Proposals for Corporate Social responsibility	Provided (c.f.pg. no. 151-152), no proof
26.	Total cost of the project with details	Not given
27.	Soft copy of the proposal (in PDF format)	Yes
28.	Details of Authorised Signatory	Sri. Paul Varghese M/s. Cements Bricks & Allied Industries M/s. Kizhakkambalam Granites Mekkamkunnel House, Kizhakkambalam Village, Kunnathunadu Taluk, Ernakulam District. Kerala – 683 561 Ph: 0484- 2680062, Mobile: 09447209454 E-mail: cbkgkzm@yahoo.in

The proponent submitted revised mining plan as per KMMC Rule, 2015. Hence, the proposal is placed before SEAC for appraisal.

**Item No.53.21**

**Environmental clearance for proposed Govt. Medical College Idukki in Sy. Nos. 161/1 in Cheruthoni of Idukki Village, Vayathope Panchayath, Thodupuzha Taluk, Idukki District, Kerala of Dr. PGR Pillai, Special Officer for new Medical Colleges, Government of Kerala.**  
(File No. 748/SEIAA/KL/221/2014)

Dr. PGR Pillai, Special Officer for new Medical Colleges and Authorized Signatory of proposed Govt. Medical College at Idukki vide his application received on 19.01.2015 and has sought environmental clearance under the EIA Notification, 2006 for housing project in Sy. Nos. 161/1 in Cheruthoni of Idukki Village, Vayathope Panchayath, Thodupuzha Taluk, Idukki District Kerala. It is inter alia, noted that the project comes under the Category B, 8(a) of Schedule of EIA Notification 2006. No forest land is involved in the present project.

It is proposed to construct buildings for hospital with Academic Block, Boys and Girls Hostel, Interns Hostel and teachers and non-teachers Hostel within the site. This is an expansion of already existing 11,019.75 m<sup>2</sup>. The built up area of the proposed additional building is 39158.60 m<sup>2</sup>. and the total built up area become 50178.35 m<sup>2</sup>. The total plot area of the project is 161,880.0 m<sup>2</sup>. The maximum height of building is 25.5 m. The excavated top soil will be used for landscaping and internal road construction purposes. The water demand during construction phase is 45.35531205 KLD. The source of water during construction phase is two existing open wells and KWA and during operational phase the source of water will be KWA. The project has made provision for rain water storage tanks (8 NOS).

An STP of capacity of 500 m<sup>3</sup>/day capacity within the project premises. The total quantity of sewage generation will be 800 KL/day (both general & Bio-medical). The biodegradable solid waste will be disposed in a bio-bin system for microbial composting and a STP for the treatment of domestic sewage. Solid waste generated from the project will be collected separately as biodegradable and non-biodegradable waste as per the MSW Rules, 2000. The biodegradable waste would be sent to the bio-gas generation plant. Bio-medical waste will be generated from the proposed project and it would be segregated at source. The radioactive waste containers should be kept closed at all times when not in use. The spent oil from the D.G. sets will be sold to C.P.C.B. approved recyclers. *Biodiversity listing of flora and fauna provided.* The total power requirement is 27KW during construction phase and 1425 KW during operation phase which will be sourced through Kerala State Electricity Board. The project will make provision of 2 nos. of D G sets (750Kva X 2 nos) and 5 nos. of 60 KVA UPS for backup during power failure. Total project cost is `28850 lakh. Catchment of Idukki dam, Kulamavu dam and Cheruthoni dam are at a distance of 1 km (aerial distance) from the project. Cochin International Airport is at about 96.4 KM distances. As stated by the proponent, there is no litigation pending against the project and /or land in which the project is proposed to be set up.

The 40<sup>th</sup> SEAC appraised the proposal based on the Form I, Form IA, Conceptual plan and details submitted.

The proposal is for developing a Medical College. Therefore in view of the proposal being a category 8(a) application, as per OM of MoEF and CC dated 22-12-2014, the proposal does not require EC and the hospital building can be considered as an integral part of the proposed Medical College. Hence the Committee decided to **recommend to close further**

**processing** in the application and to intimate the proponent accordingly. The Committee, also recommended to direct the proponent to ensure sustainable environment management, solid and liquid waste management, rain water harvesting etc in the project as envisaged in the OM.

The proposal was placed in 42nd meeting of SEAC. On verification of proposal it is found that the existing hospital has a built-up area of 11019.75m<sup>2</sup> and they have proposed expansion with additional built up area of 39158.60 m<sup>2</sup>. The total built up area of the project is 50178.35m<sup>2</sup> and hence the Committee decided to defer the item for field visit by a subcommittee consisting of Dr. Keshav Mohan and Sri. S.Ajayakumar. Field visit was conducted on 28.1.2016.

Field inspection details are given below:

*“The proponent reported that the western boundary of the plot is changed and the new boundary is the stream on the western side. This change will not affect the proposal.*

*The site where the building is proposed have an average slope of 37degrees but the surface level of the site is not even and have cutting and filling at several places. Cutting and fillings seems old.*

*The proposed project has academic block as well as hospital block. The design of the building is such that the cutting at some places is more than 9 mts. The height shown in the application is the height difference between the lowest point and highest point and not the height at a specific point and therefore, is misleading. The height is generally not more than 3 floors in height. Evacuation plan which is necessary in case of fire or earthquake is not available. RWH capacity is 524 m<sup>2</sup> which is provided in 8 separate tanks. Bio medical waste is to be handed over to IMAGE for disposal. STP is proposed in a valley location and found suitable. Drainage plan is submitted but do not seem to be practical. The application do not seem to have got the layout approval of the Chief Town Planner. The FAR, coverage, parking etc seems to be adequate but these factors are to be verified by the Chief Town Planner / Local body.*

#### Recommendations

- 1. Depth of cutting shall be reduced to 2-3 m and cutting and filling shall balance as far as possible. Total quantity of cutting, filling and surplus/ deficiency and the method of managing surplus/ deficiency shall be submitted.*
- 2. Sectional drawings at salient points shall be submitted to understand the depth of cutting and height of building*
- 3. The capacity of the RWH shall be increased to 1000KLD and should be located where gravity flow is possible.*
- 4. Bio medical waste treatment facility with adequate capacity to treat the whole of the generated waste should be provided within the site.*
- 5. Solid waste treatment facility for the whole of the generated waste shall be provided.”*
- 6. Emergency evacuation plan shall be submitted.*
- 7. Access road shall have minimum 10 m width.*
- 8. Solar energy capacity should be enhance to at least 400KwH.”*

The proposal is placed before SEAC for further appraisal.

**Item No.53.22**      **Environmental clearance for the quarry project in Sy. No. 328/2-1, 2-2, 3,6, 326/1-2,1-1,2, 325/2,4,5, 301/34,37 Chadayamangalam village, Kottarakkara (Taluk), Kollam district, Kerala by Sri. Shaji S., M/s Shah Quarry (File No. 752/SEIAA/KL/301/2015)**

Sri. Shaji.S, Thekkuvilamelathil, Kudavattoor (P.O), Kottarakkara (Taluk), Kollam vide his application dated 24/01/2015, has sought Environmental Clearance under EIA Notification, 2006 for the granite building stone open cast quarry is proposed by Shah Quarry in Sy. No. 328/2-1, 2-2, 3,6, 326/1-2,1-1,2, 325/2,4,5, 301/34,37 at Chadayamangalam village, Kottarakkara (taluk), Kollam district, Kerala for an area of 4.6725 Hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within Latitude (N) 8°51'17.6" To 8°51'31.2" Longitude (E) 76°52'43.1" To 76°52'54.1". The total mine lease area consists of 4.6725 hectares, which includes own private, patta and poramboke land. The land proof details are less impressively furnished. Instead of land tax details of Sy. No. 301/34, 301/34-1 if get availed. Another Sy. No. 328/3 has not submitted. The proposed project is for quarrying of 150000 tpa of building stone. Distance of the mining area from the nearest human settlement is recorded as approximately 100 m. The corporate social responsibility is least satisfyingly considered by the proponent. Waste management is not at all discussed good enough in the pre-feasibility study and mine management shrunken to conceptual plan. Area survey map submitted has no declaration about the nearby settlement. No 500 m radius map is given .The lab reports are from polluchem laboratories which is accredited.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), i</i>
2.	Form I	Provided (c.f.pg. no. 9-26)
	Questionnaire for mining projects	Provided (c.f.pg. no. 27-34)
	Pre-feasibility report	Provided (c.f.pg. no. 35-42)
	Environment Management Plan	Provided (c.f.pg. no. 44-54)
3.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	ESZ-3; near to ESZ-2
4.	Proof of ownership of land	Provided (c.f.pg. no. 56-61); No proofs for Sy. Nos. 328/3 &301/34 Instead of 301/34, 301/34-1 is given
5.	Proof of authorized signatory	Provided (c.f.pg. no. 89)
6.	Cadastral map duly signed by Village Officer	Not Provided
7.	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 92)
8.	Area survey plan approved by Village officer	Provided (c.f.pg. no. 90-91), no statement of VO
9.	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 94);not clear and no radius map has been submitted
	GPS readings in WGS 84 datum	Latitude : N 8 °51'17.6" To N8°51'31.2"

		Longitude : E 76 °52'43.1" To E76°52'54.1"	
10.	Distance of the mining area from the nearest human settlement	100 m (c.f.pg. no. 76)	
11.	Right & nature of ownership of land	Own , Pvt., patta and poramboke	
12.	Is the property forest land/govt. land/own land	Patta lands & Puramboke land (In Annexure : 02) S.F.No: 328/2-1, 2-2,328/3,6, 326/1-2, 1-1,2, 325/2,4,5, 301/34,37.	
13.	Extent of land in hectares	4.6725 Ha	
14.	Proposed production capacity	150000 TPA	
15.	Ultimate depth of mining (in MSL)	20 m	
16.	Quantity of topsoil estimated to be removed	55805 tonnes	
17.	Method of mining	Mechanized Open cast	
18.	Underground mining if any proposed	No	
19.	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 95-98)
		Water	Provided (c.f.pg. no. 104-105)
		Soil	Provided (c.f.pg. no. 103)
		Noise	Provided (c.f.pg. no. 99-102)
20.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 107)	
21.	Waste management proposals	Not Provided	
22.	Mined area management	Not Provided	
23.	a) Undertaking responsibility for the proposal submitted	Provided (c.f. pg. no. 115); NO AFFIDAVIT)	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f. pg. no. 116); NO AFFIDAVIT)	
24.	Affidavits for:	319 Constitution of Environment Monitoring Cell	Provided (c.f.pg. no. 117)
		320 Providing fire fighting system	
		321 Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	

25.	Proposals for Corporate Social responsibility	Provided (c.f.pg. no. 53), not good
26.	Total cost of the project with details	2 Cr
27.	Soft copy of the proposal (in PDF format)	Yes
28.	Details of Authorised Signatory	Shri.Shaji.S, Thekkuvilamelathil Kudavattoor (p.o), Kottarakkara (Taluk), Kollam (Dist) Mobile no: 9447556432, Email:shaji6460@ gmail.com

The proposal was considered in the 48<sup>th</sup> meeting of the SEAC held on 6<sup>th</sup> and 7<sup>th</sup> November, 2015. In the said meeting, it was decided to **DEFER** the proposal for filed inspection and submission of following documents:

1. Detailed route map should be provided
2. Biodiversity details of the area with IUCN status of each of the species
3. The original cadastral map certified by village officer
4. A more realistic need based CSR proposal.

The proponent has accordingly submitted the details above said documents sought by the SEAC. The site inspection has been completed on 13.01.2016 by the subcommittee comprised of Dr. K. Harikrishnan and Sri. John Mathai. The Proponent with his representatives were present at the site at the time of site visit.

*“The project is an active quarry located near Kuriyode on the MC road. This quarry lease area of 4.6725 ha falling partly in own land and partly in government land occupy the elevated part of a gently undulating area. Boundary pillars are erected and numbered displaying GPS values. The rock type is a mixture of gneiss and charnockite. The removed OB from the existing quarry is stocked at convenient places based on the place of excavation. RWH structures are not seen. A seasonal stream is seen by the side of the quarry land with both flanks owned by the proponent. Rubber is the dominant landuse. Floral and faunal biodiversity is not observed as the area is cleared for rubber. Dwelling units are seen in the immediate vicinity but beyond 100 m. Two buildings within 100 m are used as office and other facilities for workers. The documents regarding NOC for Govt land has not been verified. Based on an overall evaluation of the site, the quarry operations may be recommended with following conditions:*

8. *Fencing should be provided all around the lease area.*
9. *Top soil and Over burden should be stored in a designated place on the lower slope away from the working area and provided with protective support walls.*
10. *Ultimate depth of mine must be limited to the stream bed level seen in the vicinity.*
11. *The seasonal stream should be provided with protective embankments to prevent entry of quarry waste. It should also be provided with low level check dams at least at two places to arrest silt being washed down stream. Periodic desiltation is essential.*
12. *The approach road is narrow and presently not maintained for movement of heavy vehicles. This should be taken up on priority basis.*
13. *The CSR activity need revision”.*

The proposal is placed before SEAC for appraisal



**Item No.53.23**

**Environmental clearance for the quarry project in Sy. No. 164/1-35, 164/1-28, 164/1-45, 164/1-44, 164/1-41 Ayyampuzha village, Aluva (taluk), Ernakulam district, Kerala by Sri. C. John Kachappilly, M/s. Udaya Rock Products (File No. 761/SEIAA/KL/438/2015)**

Sri. C. John Kachappilly, Chully P.O., Thanicode, Ernakulam – 683581 vide his application nil dated has sought Environmental Clearance under EIA Notification, 2006 for proposed expansion of building stone quarry in an area of 4.62165 Ha at Ayyampuzha Village, Aluva Taluk, Ernakulam District by M/s. Udaya Rock Products in Sy. No. 164/1-35, 164/1-28, 164/1-45, 164/1-44, 164/1-41 Ayyampuzha village, Aluva (taluk), Ernakulam district, Kerala. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within Latitude (N) 10°15'5.9"N Longitude (E) 76°27'44.1"E (proponent didn't provide corner values of plot). The total mine area consists of 4.62165 hectares, which is own land. The proposed project is for quarrying of 96782 m<sup>3</sup> per annum of building stone. Distance of the mining area from the nearest human settlement is recorded as approximately 500 m. The corporate social responsibility is provided by the proponent. Photographs submitted bear no date. Area survey map submitted has no declaration about the nearby settlement. The panoramic view shows 1 more quarry is available within 500 m radius. Cadastral maps duly signed by village officer is not provided. The survey nos. Seems contiguous to star quarries seeking EC as file no. 759.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i)</i>
2.	Form I	Provided (c.f.pg. no. 9-21)
	Questionnaire for mining projects	Provided (c.f.pg. no. 23-26)
	Pre-feasibility report	Provided (c.f.pg. no. 27-76)
	Environment Management Plan	Provided (c.f.pg. no. 77-95)
3.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No
4.	Proof of ownership of land	Provided (c.f.pg. no. 205-215)
5.	Proof of authorized signatory	Provided (c.f.pg. no. 230)
6.	Cadastral map duly signed by Village Officer	Not given
7.	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no. 37); no date
8.	Area survey plan approved by Village officer	Provided (c.f.pg. no. 237), no statement of VO
9.	Panoramic view of the site /Google image with date	Provided (c.f.pg. no. 35-36); 1 more quarries are seen in 500 m radius map

	GPS readings in WGS 84 datum	Latitude (N) <b>10<sup>0</sup>14'31.81"N</b> Longitude (E) <b>76<sup>0</sup>27'33.31"E;</b> <b>incomplete</b>	
10.	Distance of the mining area from the nearest human settlement	500 m; no proof	
11.	Right & nature of ownership of land	Own	
12.	Is the property forest land/govt. land/own land	Own	
13.	Extent of land in hectares	4.62165 Ha	
14.	Proposed production capacity	96782 m <sup>3</sup> / year	
15.	Ultimate depth of mining (in MSL)	40 m	
16.	Quantity of topsoil estimated to be removed	NA	
17.	Method of mining	Mechanized Open cast	
18.	Underground mining if any proposed	No	
19.	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no. 236)
		Water	Provided (c.f.pg. no. 242)
		Soil	Provided (c.f.pg. no. 240)
		Noise	Provided (c.f.pg. no. 238)
20.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (c.f.pg. no. 243)	
21.	Waste management proposals	Provided (c.f.pg. no. 83)	
22.	Mined area management	Provided (c.f.pg. no. 85)	
23.	a) Undertaking responsibility for the proposal submitted	Provided (c.f. pg. no. 249); NO AFFIDAVIT)	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Provided (c.f. pg. no. 251)	
24.	Affidavits for:	322 Constitution of Environment Monitoring Cell	Provided (c.f.pg. no. 253-255)
		323 Providing fire fighting system	
		324 Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	
25.	Proposals for Corporate Social responsibility	Provided (c.f.pg. no. 84); bad	
26.	Total cost of the project with details	76.7 Lac	

27.	Soft copy of the proposal (in PDF format)	Yes
28.	Details of Authorised Signatory	Mr. C. John Kachappilly, Chully P.O., Thanicode, Ernakulam - 683581

The proponent submitted revised mining plan as per KMMC Rule, 2015. Hence, the proposal is placed before SEAC for appraisal.

**Item No. 53.24**      **Environmental clearance for the building stone quarry project in Sy. No. Sy. No. 249, 249/1, 249/2, at Kondoor Village-, Meenachil Taluk-, Kottayam District- by Sri. M.K. Rasheed**  
(File No. 793/SEIAA/EC4/1851/2015)

Sri. M.K. Rasheed, Managing Partner , M/s Chennadu Granites, Manackaparambil, at post Nadackal- 686121 vide his application received on 18-05-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. Sy. No. 249, 249/1, 249/2, at Kondoor Village-, Meenachil Taluk-, Kottayam District for lease area of 4.704 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls Latitude: 09° 38'28.24''N to 09°38'38.49''N, and Longitude: 76°47'31.43'' E to 76°47'40.68'' E. The current proposal is for the expansion of existing quarry area of 0.5856 ha. The quarry permit for an area of 0.5856 ha in Sy. No. 249, 249/1, 249/2, at Kondoor Village-, Meenachil Taluk, Kottayam District has been granted by Dept. of Mining and Geology vide order no.94/GBS/CRPA/2013-14/2607/DOY2013 dated 26-02-2014. The validity of permit was up to 9-1-2015. Also Pollution Control Board has given consent to extract 50 tones per day and the validity of consent is up to 30-6-2015. About 5 KLD water will be required for drinking and domestic use in mine, green belt development, dust suppression, mining and allied activities. About 34812 tons of overburden will be generated. The domestic effluent will be treated through septic tank and soak pit. There is a water body, *Pannikkadan Thodu* (Nala/drain) situated at a distance 0.178 km NE from the site. The proposal was placed in the 47<sup>th</sup> meeting of SEAC and was deferred since the proponent was absent.

Then the proposal was placed before 50<sup>th</sup> meeting of SEAC held on 7,8 December 2015. Since the area proposed is virgin the Committee decided to **defer** the item for field visit and the production of a revised CSR proposal. Field inspection was conducted on 30.01.2016 by the subcommittee members.

Field inspection details are given below:

“The project is located at about 2 km east of Thidanad. This quarry lease area of 4.704 ha falling in own land occupy the northern slopes of a hill ridge exposing hard rock. Boundary pillars are erected and numbered displaying GPS values. The rock type is variants of charnockite. The lease area is to be developed fresh but shows a small part from where quarrying was initiated. The thickness of OB and top soil varies from nil to about 2 m. The storm water from the entire area is likely to be concentrated in a hollow in the lower part close to the entrance from where it flows west to meet the stream. Rubber plantation is the dominant landuse but Anjili trees are seen interspersed. Floral and faunal biodiversity is not observed as the area is cleared. One dwelling units is seen within 100 m on the eastern side for which negotiations are on for purchase.

Based on an overall evaluation of the site, EC may be recommended with following conditions:

1. Top soil and Over burden should be stored in a designated place on the lower slope away from the working area and provided with protective support walls.
2. The water draining into the valley will need clarification once the quarry is in operation. It must be managed by providing a RWH/desiltation structure. A catch

- water drain is needed on the lower slopes leading to the desiltation structure.
3. The approach road is narrow and need to be widened. It should be maintained for the movement of heavy vehicles.
  4. The CSR activity needs revision addressing the needs of the locality.”  
Revised CSR as per 50<sup>th</sup> SEAC meeting is not submitted. Now the proposal is placed before SEAC for appraisal

**Item No.53.25**

**Environmental clearance for the quarry project in Sy. No. 307/3 & 308/15 at Malayattoor Village, Malayattoor Neeleswaram Grama Panchayath, Aluva Taluk, Ernakulam District, Kerala for M/s Fathima Granites by Sri. Ashique Ali .A, Proprietor (File No. 807/SEIAA/EC3/2238/2015)**

Sri. Ashique Ali A, Andeth House, Mekalady, Kalady P.O., Aluva Taluk, Ernakulam District, Kerala – 683 574 vide his application received on 28.05.2015, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 307/3 & 308/15 at Malayattoor Village, Malayattoor Neeleswaram Grama Panchayath, Aluva Taluk, Ernakulam District, Kerala for an area of 1.5582 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within N - 10°12' 37.57" to 10°12'43.167" E - 76°31'29.03" to 76°31'33.93". It is an existing quarry working without environmental clearance. The lease area consists of 1.5582 hectares, which is Govt. poramboke land. Two more quarries are falling within 500m radius. One is vijaya quarry under the consideration of SEIAA for prior EC and other is operated by Jacob Paul which may illegally be working without EC. The proposed project is for quarrying of 275 TPD of building stone. Nearest water body is Periyar River – 1.6 km – S (Aerial) and sensitive structure is Malayattoor Church – 1.7 Km – NW (Aerial).

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i) (if so)</i>
2.	Form I	If Provided (specify page no. )
	Questionnaire for mining projects	c.f.pg.no.23
	Pre-feasibility report	c.f.pg.no.28
	Environment Management Plan	c.f.pg.no.109
3.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	no
4.	Proof of ownership of land	c.f.pg.no.135&137
5.	Proof of authorized signatory	c.f.pg.no.149
6.	Cadastral map duly signed by Village Officer	c.f.pg.no.145
7.	Recent photographs of the project site with digital dates of the camera	c.f.pg.no.147
8.	Area survey plan approved by Village officer	c.f.pg.no.141
9.	Panoramic view of the site /Google image with date	c.f.pg.no.95& 96
	GPS readings in WGS 84 datum	N - 10°12' 37.57" to 10°12'43.167" E - 76°31'29.03" to 76°31'33.93"
10.	Distance of the mining area from the nearest human settlement	200 m
11.	Right & nature of ownership of land	Govt. Puramboke
12.	Is the property forest land/govt. land/own	Govt.

	land		
13.	Extent of land in hectares	1.5582 Ha	
14.	Proposed production capacity	275 Tonnes per day (TPD)	
15.	Ultimate depth of mining (in MSL)	Southern Block up to +115m AMSL (6.8 to 55m), Northern Block - upto +130m AMSL (40m) from the surface RL of +121.8m to +170m AMSL	
16.	Quantity of topsoil estimated to be removed	Topsoil- 1213 m3 Overburden – 4851 m3 Total waste – 6064 m3	
17.	Method of mining	Mechanized Open cast	
18.	Underground mining if any proposed	No	
19.	Analysis reports from accredited laboratories	Air- c.f.pg.no.163-167 Water- c.f.pg.no. 169-185 Noise- c.f.pg.no.187-189 Soil- c.f.pg.no.191-193	
20.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	c.f.pg.no.195	
21.	Waste management proposals	c.f.pg.no.44	
22.	Mined area management	c.f.pg.no.46	
23.	a) Undertaking responsibility for the proposal submitted	c.f.pg.no.159 (not notarised)	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	c.f.pg.no. 199	
24.	Affidavits for:	Constitution of Environment Monitoring Cell	c.f.pg.no. 201
		Providing fire fighting system	
		Providing systems to minimize dust emissions	
		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	
25.	Proposals for Corporate Social responsibility	c.f.pg.no.114-115	
26.	Total cost of the project with details	Not Given	
27.	Soft copy of the proposal (in PDF format)	Yes	
28.	Details of Authorised Signatory	Sri. Ashique Ali A, Andeth House, Mekalady, Kalady P.O., Aluva Taluk, Ernakulam District Kerala – 683 574.	

		Mobile no: 09447756701 E-Mail ID: ashiquealiandeth@gmail.com
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The proposal was considered in the 47<sup>th</sup> SEAC meeting held on 13<sup>th</sup> and 14<sup>th</sup> October, 2015 under agenda item no. 47.24. The committee **deferred** the item for field visit by subcommittee concerned and submission of following.

1. Mining plan and Letter of Intent as per KMMC Rule, 2015
2. More realistic social responsibility programme.

Subsequently, field visit to the quarry site was carried out on 30.09.2015 by the sub-committee of SEAC, Kerala, comprising Dr. E.A. Jayson, Dr. K.G. Padmakumar and Shri. P. Sreekumaran Nair. The Proponent was also present at the site.

The details are given below:

*“The project is an active quarry, located in Neeleswaram Grama Panchayath at about 12 KM east of Kalady. The proposed quarry area falling in own land lies on a hill ridge with moderate to steep slopes to the south. The outer boundaries of the lease area are delineated with pillars and the GPS reading of the pillar is provided in a painted board. Steep cuttings of older working faces are being altered to form benches. The storm water from the slopes flows down as overland flow without any channelisation. Dwelling units are not seen within 100 m. The proponent has provided limited accommodation and canteen facilities. Blasting is done three times a day.*

*Based on an overall evaluation of the site, following points may be considered:*

1. *Over burden is to be stored in a designated place in the lower part to avoid slope failure or mud flow and provided with protective support walls.*
2. *The drainage from the quarry must be channelised with proper desiltation and clarification mechanism. RWH structure must be created for the collection of part of the rainwater.*
3. *It is necessary to provide catch water drains at the lower levels of the lease area to safely dispose the storm water. Only clarified water is to be let out of the area.*
3. *The approach road to the quarry is a narrow public road which must be and maintained in good condition by the proponent.*
4. *The blasting time must be displayed and strictly adhered to. It is better to limit blasting to two times a day when the traffic density is least. The PPV values must be less than 10 mm/sec. Steps to be taken to limit fly rock to the quarry area.*
5. *Tree cover seen all around the quarry must be maintained till the entire life of quarry”.*

Other items from general condition and CSR may be added.

The proponent submitted revised mining plan as per KMMC Rule, 2015. Hence, the proposal is placed before SEAC for appraisal.



**Item No. 53.26 Environmental clearance for proposed Government Medical College at Sy.No.643 at IravanVillage, Kozhencherry Taluk, Aruvapulam Panchayat, Pathanamthitta District, Kerala by Sri. Dr. P.G.R Pillai M.S, (File No. 810.A/SEIAA/EC4/2373/2015)**

Dr. P.G.R.Pillai M.S, Special Officer, New Medical Colleges, Government of Kerala Government Medical College, Kottayam-686008 vide his application received on 23/06/2015, has sought Environmental Clearance under EIA Notification, 2006 for proposed Apartment Project at Sy. No. 643 at Iravan Village, Kozhencherry Taluk, Aruvapulam Panchayat, Pathanamthitta District. It is interalia, noted that the project comes under the Category B, 8(a) of Schedule of EIA Notification 2006. No forest land is involved in the present project. The proposed project Government Medical College for 300 bedded hospital and the total cost of the project is Rs. 143.00 Crores. The land for the proposed project is allotted by Govt. of Kerala and the project is constructed in accordance of local byelaw. The total quantity of excavated soil is about 34,000 cum. About 30,000 cum will be used for backfilling, about 4,000 cum will be used for landscape development within the project site. Domestic water requirement is 160 KLD which will be met by BWSSB Sources. The expected domestic water requirement is 160 KLD met by Achenkovil River sources through Kerala Water Authority which is of Potable water quality standards. The Raw sewage generated from the proposed activity will be treated to tertiary level and the residual organics in the treated wastewater will be practically nil and the treated sewage will be reused, therefore incremental pollution load is not anticipated. The construction waste and debris (300 m<sup>3</sup>) from the project will be used in road and pavement formation. The solid wastes generated are segregated at its point of generation, collected and stored at a common designated place and organic solid waste will be treated in organic converter and product will be used as manure for Landscape. The inorganic solid waste will be sent for recycling. The Bio medical waste will be collected and disposed scientifically. The power required for the project is about 3,830 kW and will supply from Kerala Electricity Board.

Then the proposal was placed before 50<sup>th</sup> meeting of SEAC held on 7,8 December 2015. Considering the undulating nature of land, the Committee decided to **defer** the item for field visit and the production of the following;

1. Detailed proposal for RWH facility
2. Overall development plan of the campus including all details
3. Cutting details of the proposed area
4. Detailed proposal for the treatment of bio medical and other wastes

Field visit was carried out on 30.01.2016 by the sub-committee of SEAC, Kerala, comprising Sri. Ajaya Kumar and Sri. John Mathai.

Field inspection details are given below:

“Following points may be considered before recommending the project.

7. The land falls in an elevated ridge exposing rock and with a common boundary with reserved forest to the north, south and east.
8. The location of the Medical College falling in part of Sy No. 643 is not marked in the cadastral map.
9. Part of the construction is completed with the structure of 5 floors erected. .
10. The basement rock of the hillock has been blasted and removed and now heaped in the area. At least 15 heaps, each ~ 3000 cu m on the average, seen in the area.
11. The approach road is yet to be developed. .
12. Dedicated supply of water from Achankovil river by KWA promised but the details

and stage of construction not clear.

13. Mechanisms for waste disposal, RWH, harvesting green energy need to be given.
14. Parking, common assembly point, play ground, placing the hostels in isolated area etc need discussion.”

Proponent has produced the documents according to the decision taken in 50th SEAC.  
Now the proposal is placed before SEAC for appraisal

**Item No. 53.27**      **Environmental clearance for the quarry project in Sy. Nos. 182/1, 184/1, 185/2 and 186/5 at Nediyruppu Village & Panchayath, Kondotty Taluk, Malappuram District by Sri. K.M. Koyamu, Managing Partner, M/s Chirayil Granite Industries. (File No. 814/SEIAA/EC1/2485/2015).**

Sri. K.M. Koyamu, Managing Partner, M/s Chirayil Granite Industries, Chirayil P.O., Kodotty, Malappuram – 673638 vide his application received on 30/06/2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 182/1, 184/1, 185/2 and 186/5 at Nediyruppu Village & Panchayath, Kondotty Taluk, Malappuram District for an area of 4.1450 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls in 11°07'16.22" N to 11°07'06.58" N Latitude and 75°05'29.27"E to 75°58'21.51"E Longitude. The land use classification as per revenue records is private own land consists of 4.1450 hectares. The current proposal is for the existing quarry and mineral specific. Hence no alternate site was examined. The proposed project is for quarrying of 160,000 Tonnes/annum of building stone.

**BASIC INFORMATION OF THE PROJECT**

File No.		814/SEIAA/EC1/2485/2015				
Name of project		Quarry project of M/s Chirayil Granite Industries				
Brief description of the project		Quarry project with an area of 4.1450 ha. & production capacity of 1,60,000 MTA				
Category/Subcategory & Schedule		Category B/B/2 & Schedule 1 (a)				
Location Sy no/ district, Taluk/ village etc.		Survey No. 181/1 Pt., 184/1 Pt, 185/2 Pt, 186/5 Pt, Nediyruppu Village & Panchayat, Kondotty Taluk, Malappuram District, Kerala				
GPS co-ordinates		<table border="1"> <tr> <td>Latitude (N)</td> <td>11°07'16.22" to 11°07'06.58"</td> </tr> <tr> <td>Longitude (E)</td> <td>75°05'29.27" to 75°58'21.51"</td> </tr> </table>	Latitude (N)	11°07'16.22" to 11°07'06.58"	Longitude (E)	75°05'29.27" to 75°58'21.51"
Latitude (N)	11°07'16.22" to 11°07'06.58"					
Longitude (E)	75°05'29.27" to 75°58'21.51"					
for Mining projects	Extent of area (in hectares)	4.1450 ha.				
	Minimum and maximum height of excavation (MSL)	91 m MSL and 36 m. MSL				
	Life of mine proposed	7 Years				
	Ultimate depth of mining (in MSL)	36 m. MSL				
	Distance from the adjacent quarry	There is no quarry is operating within 500 m. radius.				
	Capacity of production	1,60,000 MTA				
	Details of Project Cost	Rs. 5 Crores.				
Financial Statement including funding source and details of insurance	Insurance = Insurance to the quarry workers provided by the insurance company. Source of funding = Own source & loan from bank.					
for Construction projects	Built up area (in m <sup>2</sup> )	Not applicable				
	No. of floors					

	<i>Maximum height from ground level</i>	Not applicable
	<i>Facilities proposed</i>	Not applicable
	<i>Details of Project Cost</i>	Not applicable
	<i>Financial Statement including funding source and details of insurance</i>	Not applicable
	<i>Activity schedule of the project</i>	Not applicable
	<i>CRZ recommendations</i>	Not applicable
	<i>Forest clearances</i>	Not applicable
	<i>Does it attract violation proceedings</i>	Not applicable
	<i>Envt. Mgmt plan / Eco restoration plan (brief details)</i>	Not applicable
<b>ABOUT THE PROJECT</b>		
	<b><i>Environmental parameters considered</i></b>	<b><i>Description</i></b>
<b>WATER</b>		
	Water requirement & sources	The total water requirement is about 17 KLD in which 1 KLD is for domestic which would be sourced from open well, 12 KLD for dust suppression system in mine as well as ancillary unit and 2 KLD for plantation purposes and will be sourced from storm water pond.
	RWH units proposed	Yes, Rain water collection pond.
	Facilities for liquid waste treatment	Not applicable
	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No impoundment, damming, culverting, realignment or other changes to the hydrology of surface water courses.
	Water quality meeting requirements	Water quality meeting requirements after the treatment of water (filtration, disinfection & sedimentation).
	Does it have provisions for use of recycled water	No
<b>LAND</b>		
	Proximity to forest lands	None within the study area
	Is the land assigned for any other special purpose; Give details	No
	Access road to the site –Width & Condition	6 m. wide, tarred road, SW
	Storage of explosives /hazardous	Yes,

	substances	Explosives will be stored as per Explosive Act / Rules.	
	Facility for solid waste management.	The municipal solid waste will be suitable disposed.	
	Topographic features/ slope	The topography of the lease area is hilly area covered with native tree, climbers, grass, shrubs, herbs etc. Slope = towards north side.	
	Proneness of the area for landslides	No	
	Significant land disturbance resulting in erosion, subsidence & instability	No	
	Top soil, overburden etc.	Top soil = 22,798 cu.m. Overburden = 12,435 cu.m.	
<b>AIR</b>			
	Air quality meeting requirements	Yes	
	Noise level meeting requirements	Yes	
	Likely emissions affecting environment	Diesel engine emissions & emissions from movement of vehicles like dumpers, trucks, tankers etc. will also generate.	
<b>ENERGY</b>			
	Energy requirement	The total power requirement will be 75 kW for compressions, which will be drawn from diesel engine.	
	Energy Sources	From diesel engine.	
	Extent of usage of alternative energy resources	No	
<b>BIODIVERSITY</b>			
	Presence of any endangered species or red listed category	No	
	Loss of native species and genetic diversity	Yes, For the quarrying activity all of native tree species, shrubs, herbs, climbers etc. existing at project site will be cleared.	
	Likely displacement of fauna	No	
	Any introduction of alien / invasive species	No	
<b>SOCIAL ASPECTS</b>			
	Proximity to nearest habitation	105 m. , NE	
<b>CSR components suggested</b>			
Sr. No	Description	Approx. Amount proposed	Remarks
1.	Promotion of education	Recurring = Rs. 2.75 lakhs	A detailed study on

		Non-recurring = Rs. 12.0 lakhs	status of the project site surroundings & need base study on proposed CSR activities were carried out. The summary of the report is provided.
2.	Eradication of hunger and poverty	Recurring = Rs. 1.5 lakhs Non-recurring = Nil	
3.	Public health care	Recurring = Rs. 3.0 lakhs Non-recurring = Nil	
4.	Infrastructure development	Recurring = Rs. 3.75 lakhs Non-recurring = Rs. 0.30 lakhs	
	<b>Total</b>	<b>Recurring = Rs. 11.0 lakhs</b> <b>Non-recurring = Rs. 12.30 lakhs</b>	

**GENERAL**

	Does it propose environment management plan	Yes
	Does it have eco restoration programmes	Yes, The year wise programme of afforestation for the life of mine, about 4,000 trees will be planted. The main aim of the green belt development is to restore the eco-system to its original form to a maximum extent by designing the green cover with the same native species.
	Biomedical waste management	Not applicable
	E-waste management	Not applicable
	Sufficiency of parking spaces/traffic management	Yes
	Litigation/court cases, if any, against the project (provide details)	No

**SEAC meetings/ ADDITIONAL CLARIFICATIONS**

	Details of Authorised Signatory	M/s Chirayil Granite Industries  (K.M. Koyamu)

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i)</i>
2.	Form I	Provided (c.f.pg. no. 11-27)
3.	Questionnaire for mining projects	Provided (c.f.pg. no. 29-33)
4.	Pre-feasibility report	Provided (P.f.pg. no.28-103)
5.	Environment Management Plan	Included in PFR (P.f.pg. no.65-71)
6.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No
7.	Proof of ownership of land	Possession Certificate: (P.f.pg. no. 148-151). Land Tax receipt: (P.f.pg. no.144-147). Consent Letter: (P.f.pg. no. 152-159).

		Death certificate of Aboobakkar Alias: (P.f.pg. no. 160). Surviving family membership certificate of Aboobakkar Alias: (P.f.pg. no. 161-162).	
8.	Proof of authorized signatory	Resolution of the company:163-164 Partnership deed:165-171 Attested copy of voters ID card:172 Recent pass port size photo (P.f.pg. no. 173).	
9.	Cadastral map duly signed by Village Officer	Provided (P.f.pg. no. 174).	
10.	Recent photographs of the project site with digital dates of the camera	Provided (P.f.pg. no. 175-176)	
11.	Area survey plan approved by Village officer	Provided (P.f.pg. no. 177).	
12.	Panoramic view of the site /Google image with date	Provided (P.f.pg. no.94)	
13.	GPS readings in WGS 84 datum	11°07'16.22" N to 11°07'06.58" N Lat and 75°05'29.27"E to 75°58'21.51"E Long. (P.f.pg. no.7)	
14.	Distance of the mining area from the nearest human settlement	105m. (P.f.pg. no.35)	
15.	Right & nature of ownership of land	Private Land(P.f.pg. no.34)	
16.	Is the property forest land/govt. land/own land	Private own land (P.f.pg. no.34)	
17.	Extent of land in hectares	4.1450 Ha. (P.f.pg. no.34)	
18.	Proposed production capacity	160,000Tonnes/annum(P.f.pg. no.34)	
19.	Ultimate depth of mining (in MSL)	36 m. MSL (P.f.pg. no.43)	
20.	Quantity of topsoil estimated to be removed	22, 798 m <sup>3</sup> (P.f.pg. No.36)	
21.	Method of mining	Open cast method (P.f.pg. No. 43).	
22.	Underground mining if any proposed	Not Applicable (P.f.pg. no.178-193)	
23.	Analysis reports from accredited laboratories	Air	Provided (P.f.pg. no.178-181)
24.		Water	Provided (P.f.pg. no.182-189)
25.		Soil	<b>Not Provided.</b>
26.		Noise	Provided (P.f.pg. no.190-193)
27.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Provided (P.f.pg. no. 202-207)	
28.	Waste management proposals	Provided in PFR.-EMP (pg. no. 65-91)	
29.	Mined area management	Provided in PFR. (pg. no. 71-72)	
30	a) Undertaking responsibility for the proposal submitted	Provided (P.f.pg. no.208)	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Not Provided	
31.	Affidavits for:	1.Constitution of Environment Monitoring Cell	
		2.Providing fire fighting system	
		3.Providing systems to minimize dust emissions	
		4.To provide adequate safety measures for the construction workers during the construction phase	
		Provided (P.f.pg. no. 209)	

		5.To upload the following in the website of the project: a)EC order b)Status of compliance of the stipulated EC conditions C)Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	
32.	Proposals for Corporate Social responsibility	Provided in EMP (P.f.pg. no.61-64)	
33.	Total cost of the project with details	5 Cr. (P.f.pg. no. 34)	
34.	Soft copy of the proposal (in PDF format)	Provided (C.f.pg. no. 211)	
35.	Details of Authorised Signatory	Sri. K.M. Kayamu, Managing Partner, M/s. Chirayil Granite Industries, Chirayil P.O., Kodotty, Malappuram – 673638 Email: <a href="mailto:chirayilgranite@gmail.com">chirayilgranite@gmail.com</a> <a href="mailto:adv.samad@gmail.com">adv.samad@gmail.com</a> Phone No:0494-2490669 Mob:099466734891	
36	Processing fee paid/not. If yes give details.	The proponent has paid an amount of Rs: 100,000/- towards processing fee. D.D.No.661690 dtd.30/07/2015.	
37	Any other, Specify	Nil	

The proponent has submitted the approved mining plan of the said quarry as per KMMC Rules-2015. In this context the proposal was placed in the 47<sup>th</sup> meeting of SEAC held on 13 – 14 October 2015 for appropriate decision. The 47<sup>th</sup> Committee **deferred** the item for field visit by subcommittee concerned. Now the field inspection report has received from SEAC subcommittee and the details are furnished below:-

‘Dr. Khaleel Chova and DR. Harikumar, the subcommittee members of SEAC visited the quarry project on 13-12-2015 in survey NoS. 182/1, 184/1, 185/2 and 186/5 at Nediyruppu village & Panchayath, Kondotty Taluk, Malappuram Dt. OF m/s Chirayil Granite industries. The proponent Mr. K.K. Koyamu was present at the site.

The quarry is small and existing one. Open cast semi mechanised method is practiced. Benching is started, the drainage from the quarry is collected in a pit. Vegetation is seen around the quarry which are having status of least concern. No houses or settlements are noticed in nearby area.

In addition to general conditions, the following specific conditions should be applied:

- i ) Additional pits may be provided at lower most part for directing drainage from the quarry with a silt trap or other suitable mechanism for clarification of water
- ii) Outer fencing and sign boards must be provided’

Hence the proposal is placed before 53<sup>rd</sup> SEAC for further appraisal.



**Item No.53.28 Environmental clearance for the quarry project in Survey. No. 8/9,at Alakkodu Village, Thodupuzha Taluk, Idukki District, Kerala by Mr.U.I. John,Managing Partner,M/s Marthoma Granites (File No. 817/EC3/2489/SEIAA /2015)**

Mr.U.I John,Managing Partner,M/s Marthoma Granites, Alakkodu Village, Thodupuzha Taluk, Idukki District, Kerala, vide his application received on 10-07-2014, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in in Sy. No. 8/9,at Alakkodu Village, Thodupuzha Taluk, Idukki District, Kerala for an area of 7.4590 hectares. The project comes under category B/B2 & Schedule 1 (a) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within N 09<sup>0</sup> 53' 49.2" - N 09<sup>0</sup> 53' 34.4" E 76<sup>0</sup>46' 09.8" - E 76<sup>0</sup> 45' 55.6". The lease area consists of 7.4590 hectares, which is government land. The proposed project is for quarrying of 1,75,000 MTA of building stone. Distance of the mining area from the nearest human settlement is recorded as more than 100 m. Even though it is an existing quarry and mineral specific hence no alternative site was examined. Area is hilly in form Two writ petitions are pending in High court of Kerala. Expected life of mine is 34 years The total power requirement will be 75 kW, which will be drawn from diesel engine. The water required will be sourced from the well water/ storm water pond. Ultimate depth of mining 86m.MSL.

The proposal was placed in 47<sup>th</sup> meeting of SEAC held on 13-14 of October 2015. Further to the intimation of SEAC, the authorised person and the consultant attended the meeting and the consultant made a brief PowerPoint presentation. This is a working quarry with mine lease and NOC. A crusher unit is associated with the quarry. Annual production is 17500MTA. The lowest and highest elevation of the proposed area is 85m AMSL and 180m AMSL respectively. The Committee **deferred** the item for field visit by subcommittee concerned. But no field visit has been undertaken.

In the meantime, standing council of SEIAA in the NGT (SZ) has informed that in an application NO.168/2015 filed in the NGT. The Tribunal has passed strict order against this quarry imposing compensation of 10 % of their turnover from 2008 and a cost of Rs.25000/- to be paid to the applicant-SEIAA has directed to delist the unit as their application received only in 2015.The council has advised to launch criminal action against proponent and not up to process the application. IN view of the decision of the NGT (SZ) the application maybe delisted pending further action based on the order of NGT.

**Item No.53.29 Environmental clearance for the quarry project in Sy. No. 97/1(p), 97/2(p) & 97/4(p) at Malayattoor Village, Malayattoor Neeleswaram Grama Panchayath, Aluva Taluk, Ernakulam District, Kerala by Sri. Manoj Antony for M/s. Surya Rock Product (File No. 821/SEIAA/EC3/2546/2015)**

Sri. Manoj Antony, Managing Partner of M/s. Surya Rock Products, Puthen House, Neeleswaram Post., Kalady Village, Aluva Taluk, Ernakulam vide his application received on 03.07.2015, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 97/1(p), 97/2(p) & 97/4(p) at Malayattoor Village, Malayattoor Neeleswaram Grama Panchayath, Aluva Taluk, Ernakulam District, Kerala for an area of 1.8814 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

The proposed project site falls within N - 10<sup>0</sup>12'17.331" to 10<sup>0</sup>12'24.036" E - 76<sup>0</sup>31'17.786" to 76<sup>0</sup>31'24.431". It is an existing quarry working without environmental clearance having lease area consists of 1.8814 hectares, At survey no. 97/4 which is Govt. poramboke land – 0.9714 Ha (Renewed) At survey nos 97/1 & 2 (LA Pattayam for agriculture) – 1.9208 Ha (Expired) and Capacity – 40000 TPA for each permit area. But overall production is noted as 75000TPA. Four more quarries seem to be operating within 500m radius, two are by vijaya quarry under the consideration of SEIAA for prior EC, one is by Ashique Ali and other is operated by Jacob Paul all are illegally working without EC. The proposed project is for quarrying of 375 TPD of building stone. Nearest water body is shown as Periyar River – 1.0 km. 11 houses are shown in map submitted by VO. Sampling stations are only natural sites, has to include abandon mine pit water/ pond water. Biodiversity part is too brief. Joint undertaking and undertaking responsibility for proposals are not notarised. Area is coming under Seismic zone 111.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a), (i) (if so)</i>
2.	Form I	c.f.pg.no.8
	Questionnaire for mining projects	c.f.pg.no.23
	Pre-feasibility report	c.f.pg.no.28
	Environment Management Plan	c.f.pg.no.100
3.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No
4.	Proof of ownership of land	c.f.pg.no.213-221; L.A Pattayam- for Agricultural purpose
5.	Proof of authorized signatory	c.f.pg.no.235-237
6.	Cadastral map duly signed by Village Officer	c.f.pg.no.231; not clear and not in actual size

7.	Recent photographs of the project site with digital dates of the camera	c.f.pg.no.233-235
8.	Area survey plan approved by Village officer	c.f.pg.no.223-227
9.	Panoramic view of the site /Google image with date	c.f.pg.no.86
	GPS readings in WGS 84 datum	N - 10012'17.331" to 10012'24.036" E - 76031'17.786" to 76031'24.431"
10.	Distance of the mining area from the nearest human settlement	101 m; 11 houses- c.f.pg.no.227
11.	Right & nature of ownership of land	Private & Govt. poramboke
12.	Is the property forest land/govt. land/own land	Private & Govt. poramboke
13.	Extent of land in hectares	1.8814 Ha; but 1. At survey no. 97/4 – 0.9714 Ha (Renewed) 2. At survey nos 97/1 & 2 – 1.9208 Ha (Expired) Total may be > 2.8 Ha
14.	Proposed production capacity	375 Tonnes per day (75000 TPA)
15.	Ultimate depth of mining (in MSL)	Upto +15m AMSL (Minimum & Maximum depth is 40m & 70m respectively)
16.	Quantity of topsoil estimated to be removed	Topsoil- 469 m <sup>3</sup> Overburden – 2190 m <sup>3</sup> Total waste – 2660 m <sup>3</sup>
17.	Method of mining	Semi - Mechanized Open cast
18.	Underground mining if any proposed	No
19.	Analysis reports from accredited laboratories	Air- c.f.pg.no.249-25 Water- c.f.pg.no. 255-271 Noise- c.f.pg.no.273-275 Soil- c.f.pg.no.277-279
20.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	c.f.pg.no.281
21.	Waste management proposals	c.f.pg.no.47
22.	Mined area management	c.f.pg.no.49
23.	a) Undertaking responsibility for the proposal submitted	c.f.pg.no.245 (not notarised)
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	c.f.pg.no. 285 (not notarised)
24.	Affidavits for:	c.f.pg.no. 287
	Constitution of Environment Monitoring Cell	
	Providing fire fighting system	
	Providing systems to minimize dust emissions	

		4. To provide adequate safety measures for the construction workers during the construction phase	
		5. To upload the following in the website of the project: a) EC order b) Status of compliance of the stipulated EC conditions c) Results of monitoring data and update the same periodically AND d) Send the copy of the EC to the LSG concerned	
25.	Proposals for Corporate Social responsibility		c.f.pg.no.105
26.	Total cost of the project with details		Not Given
27.	Soft copy of the proposal (in PDF format)		Yes
28.	Details of Authorised Signatory	Sri. Manoj Antony Managing Partner of M/s. Surya Rock Products Puthen House, Neeleswaram Post., Kalady Village, Aluva Taluk, Ernakulam District, Kerala - 683574. Mobile: 9847032454 E.mail: putheanmanoj@gmail.com	

The proposal was considered in the 48<sup>th</sup> SEAC meeting held on 6<sup>th</sup> and 7<sup>th</sup> November 2015 under agenda item no. 48.18. The committee **DEFER** the item for Field Inspection to assess the ultimate depth of quarrying and the production of following documents/details;

1. The detailed route map.
2. A more realistic need based CSR proposal.

Subsequently, field visit to the quarry site was carried out on 02.12.2015 by the sub-committee of SEAC, Kerala, comprising Dr. E.A. Jayson, Dr. K.G. Padmakumar and Shri. P. Sreekumaran Nair. The Proponent was also present at the site.

The details of the Field Inspection Report are given below:

*“The project is an active quarry, located in Malayattoor Neeleswaram Grama Panchayath and the approach is through Karakkad Forest check post. The proposed quarry area falling in own land lies on a hill ridge with moderate to steep slopes to the south. The outer boundaries of the lease must be delineated with pillars and the GPS reading of the pillar should be provided in a painted board. Steep cuttings of older working faces are being altered to form benches. The storm water from the slopes flows down as overland flow without any channelisation. Dwelling units are not seen within 100 m. The proponent has provided limited accommodation and canteen facilities. Blasting must be restricted to two times a day and protective fencing must be provided along the borders of the quarry. Mine manager was not present at the time of visit to the quarry and magazine is reported to be 6 km away from the quarry.*

*Based on an overall evaluation of the site, following points may be considered:*

1. *Over burden is to be stored in a designated place in the lower part to avoid slope failure or mud flow and provided with protective support walls.*

2. *The drainage from the quarry must be channelised with proper desiltation and clarification mechanism. RWH structure must be created for the collection of part of the rainwater.*
3. *It is necessary to provide catch water drains at the lower levels of the lease area to safely dispose the storm water. Only clarified water is to be let out of the area.*
4. *The approach road to the quarry is a narrow public road which must be and maintained in good condition by the proponent.*
5. *The blasting time must be displayed and strictly adhered to. It is better to limit blasting to two times a day when the traffic density is least. The PPV values must be less than 10 mm/sec. Steps to be taken to limit fly rock to the quarry area.*
6. *Tree cover seen all around the quarry must be maintained till the entire life of quarry.*

*Other items from general condition and CSR may be added”.*

As the minutes of the 48<sup>th</sup> SEAC meeting has not been published in the website, the proponent has been addressed for production of the details.

The proposal is placed before SEAC for appraisal

**Item No.53.30 Environmental clearance for Proposed building Application For Prior Environment Clearance For Life Science Park At Thonnakkal in Sy. No. 187, 188, 192 in Veiloor Village, Thiruvananthapuram Taluk, Thiruvananthapuram District (File No. 851/SEIAA/ECI/2967/2015)**

Sri. Biju BG, Assistant GM for KSIDC has submitted application seeking environmental clearance under the EIA Notification, 2006 for Life Science Park At Thonnakkal in Sy. No. 187, 188, 192 in Veiloor Village, Thiruvananthapuram Taluk, Thiruvananthapuram District, Kerala. It is interalia, noted that the project comes under the Category B, 8(a) of Schedule of EIA Notification 2006. No forest land is involved in the present project site and is adjacent to the NH 47. The height of the proposed building is Technical Block-45m and Non-Technical - 13.5m. The total site area is 9.3ha and total built-up area is 35309.7m<sup>2</sup>. The total power requirement is 100 kW + 3MVA which will be sourced through Kerala State Electricity Board. Total project cost is Rs. 151.385 Crores. The proponent has stated that there is no litigation pending against the project and /or land in which the project is proposed to be set. The proposed site is surrounded by rubber plantation on the eastern side, sparsely populated residential area on the western side. A petrol bunk and other public facilities such as ATM and cafeteria are also seen at a distance of 200m from the project location.

The proposal has been considered by SEAC in its 44<sup>th</sup> meeting held on 12-13 August 2015 as Agenda Item No. 44.04 and the Committee observed that there is not enough clarity in the proposal regarding the type of activities that will be carried out in the premises. The Committee could not appraise the proposal without sufficient details regarding the biotechnological processes, chemical experiments and the plants and animal species that would be handled within the project area. The Committee therefore decided to **DEFER** the item for submission of details such as

1. The specific uses of the proposed buildings
2. Detailed waste management plan.
3. Management of hazardous chemical/exotic species used and generated including the types expected.
4. The energy requirement, both conventional and non-conventional including specific plans for tapping green energy.
5. Risk assessment and specific safety measures for mitigating natural and anthropogenic hazards.

The proponent has submitted the above details of the project. So that proposal was placed before 48<sup>th</sup> SEAC held on 6 & 7 November 2015 for verification of the same and further appraisal of the project. The 48<sup>th</sup> committee decided to defer the item for field visit to assess the ground realities. Now the field visit report has received from the subcommittee and the details are furnished below:-

‘Field visit to the site of Proposed Life Science Park at Thonnakkal, in Veiloor Village, Thiruvananthapuram Taluk and district was carried out on 22.01.2016 by the sub-committee of SEAC, Kerala, comprising Dr. George Chakkacherry, Sri. Ajaya Kumar and Sri. John Mathai. The Proponent Shri Biju BG and his representatives were present at the site at the time of site visit.

The project site is located at Thonnakkal by the western side of National Highway about 2 km north of Mangalapuram. The land gently sloping to the north is partly developed with a well laid road network. The eastern part is to be used for Innovation and incubation centre with cellar + G + 9 floors and a non-technical block with g + 2 floors. Animal science facility, Food and wellness centre and Medical technology facility are also planned for the future. A detailed waste management plan has now been formulated for the treatment of bio hazardous material, chemical pollutants and cytotoxic material. Air emission and effluent from laboratories are planned to be kept below the critical levels. The rear portion in the west is fragmented into plots to be leased out to other agencies. The area has been provided with storm water drainage and rainwater harvesting/ recharge structures. One open-well is seen at the site from which water is being drawn. The overburden thickness exceeds 15 m with white clay substrate. The surrounding area to the north supports fairly dense settlement. Following points may be considered for recommending the project.

1. It is reported that >40,000 cu.m of excess ordinary earth is likely to be generated at the site. The exact quantity need to be worked out. It can be allotted to the Govt. projects like Highway development.
2. Dependable sources of water must be developed. Yield test of such sources should be communicated.
3. The area is totally barren devoid of any tree cover.
4. The project plans to enter into tie up with authorised contractors for the disposal of different kinds of waste. It may be better to create facility/mechanisms for the disposal of these wastes within the campus itself.

Hence the proposal is placed before SEAC for further appraisal

**Item No.53.31 Environmental clearance for the Proposed – M/s Valorangal Building Stone quarry project in Re. Survey. No. 6/1 of Vettilappara Village, Eranad Taluk, Malappuram District, Kerala by Sri. Hisham, E. C. for Building Stone Quarry of M/s. Thomarappara Bric & Metals (File No. 856/SEIAA/EC1/2980/2015)**

Sri. Hisham, E. C., S/o Muhammed Ali, EC Villa house, Chennamangallur (P.O.), Mukkam, Kozhikode district, Kerala State, vide his application received on 29-07-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Re. Survey. No. 6/1 of Vettilappara Village, Eranad Taluk, Malappuram District, Kerala over an area of 4.8542 Ha. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. The proposed project site falls Latitude 11<sup>o</sup> 17'27.68" N to 11<sup>o</sup>17'37.40" N Longitude 76<sup>o</sup> 04'58.30" E to 76<sup>o</sup> 05' 07.32" E.

Sri. Hisham, E. C., S/o Muhammed Ali, EC Villa house, Chennamangallur (P.O.), Mukkam, Kozhikode district, Kerala State, vide his application received on 29-07-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in **in** Re. Survey. No. 6/1 of Vettilappara Village, Eranad Taluk, Malappuram District, Kerala over an area of 4.8542 Ha. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. The proposed project site falls Latitude 11<sup>o</sup> 17'27.68" N to 11<sup>o</sup>17'37.40" N Longitude 76<sup>o</sup> 04'58.30" E to 76<sup>o</sup> 05' 07.32" E.

**OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Category/Sub category & Schedule	<i>Category B2, 1(a),</i>
2.	Form I	Provided (c.f.pg. no.12-31)
3.	Questionnaire for mining projects	Provided (c.f.pg. no.33-37)
4.	Pre-feasibility report	Provided (c.f.pg. no.39-61)
5.	Environment Management Plan	Provided (c.f.pg. no.62-69)
6.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	NA
7.	Proof of ownership of land	Provided (c.f.pg. no.79-87)
8.	Proof of authorized signatory	Provided (c.f.pg. no.75-78)
9.	Cadastral map duly signed by Village Officer	Provided (c.f.pg. no.135)
10.	Recent photographs of the project site with digital dates of the camera	Provided (c.f.pg. no.145)
11.	Area survey plan approved by Village officer	Provided (c.f.pg. no.116); no declaration statement
12.	Panoramic view of the site /Google image with date	Provided (c.f.pg. no.42); cluster condition may available



13.	GPS readings in WGS 84 datum	Latitude 11 <sup>o</sup> 17'27.68" N to 11 <sup>o</sup> 17'37.40" N Longitude 76 <sup>o</sup> 04'58.30" E to 76 <sup>o</sup> 05' 07.32" E.	
14.	Distance of the mining area from the nearest human settlement	309; no proof has given	
15.	Right & nature of ownership of land	Private Land	
16.	Is the property forest land/govt. land/own land	Own Land	
17.	Extent of land in hectares	4.8542 hectares	
18.	Proposed production capacity	2,70,000 tonnes per year	
19.	Ultimate depth of mining (in MSL)	65m. above MSL	
20.	Quantity of topsoil estimated to be removed	14250 tonnes	
21.	Method of mining	Open cast	
22.	Underground mining if any proposed	No	
23.	Analysis reports from accredited laboratories	Air	Provided (c.f.pg. no.95-98)
		Water	Provided (c.f.pg. no.103-110)
		Soil	Not Provided
		Noise	Provided (c.f.pg. no.99-102); seems Xerox of some other quarry; report says quarry is working at night against GC of SEIAA
24.	Attested copy of accreditation certificate of laboratory conducting Environmental Analysis	Not provided	
25.	Waste management proposals	Provided (c.f.pg. no.51)	
26.	Mined area management	Provided (c.f.pg. no.142)	
	a) Undertaking responsibility for the proposal submitted	Provided (c.f.pg. no.); not notarized	
	b) Joint undertaking with the project proponent for implementation of EMP and EC conditions	Not Provided	
28.	Affidavits for:	9. Constitution of Environment Monitoring Cell	
		10. Providing fire fighting system	
		11. Providing systems to minimize dust emissions	
		12. To provide adequate safety measures for the construction workers during the construction phase	
		13. To upload the following in the website of the project: 1. EC order 2. Status of compliance of the stipulated EC conditions 3. Results of monitoring data and update the same periodically AND 4. d) Send the copy of the EC to the LSG concerned	
		Provided (c.f.pg. no.121)	
29.	Proposals for Corporate Social responsibility	Provided (c.f.pg. no.64)	

30.	Total cost of the project with details	Rs. 4.5 Crores
31.	Soft copy of the proposal (in PDF format)	Provided
32.	Details of Authorised Signatory	Mr. Hisham EC Managing Partner EC Villa (H) Chennamangallur(po) Mukkam Kozhikodedistrict Kerala State-673 602.Phone : 9447245028e- mail :hishamec@gmail.com

The proposal was placed before 50 th SEAC as item number 50.20 held on 30-31/12/2015 for appraisal. The 50<sup>th</sup> committee decided to defer the item for the production of revised social responsibility proposal. Now the proponent has submitted the documents regarding the CSR. Hence the file placed in the meeting for further approval.