

(Present: Prof. (Dr.) K. P. Joy, Chairman, Dr. Subhashini, Member, Dr. Bhiveditha P. Haran IAS, Member Secretary & Additional Chief Secretary to Government (Environment Department))

Sub: SEIAA, Kerala Quarry project of M/S Profile Granite, Myssoormala, Mukkara, Kumaranellur, Kozhikode-Environment Clearance- Accorded

Environmental Clearance

No.130/SEIAA/2437/2013

Dated: 1-04-2014

- Ref. 1. Application dated Nil from Sri. Habeeb Rahman P.M., Managing Partner, Profile Granite, Myssoormala, Kumaranellur, Kozhikode- 673602.
2. Minutes of the 20th Meeting of SEIAA held on 05-10-2013
3. Minutes of the 23rd meeting of SEAC held on 6/7-01-2014
4. Minutes of the 26rd meeting of SEAC held on 20/21-03-2014
5. Minutes of the 30th meeting of SEAC held on 6/7-06-2014
6. Minutes of the 33rd meeting of SEAC held on 24-09-2014

ORDER

Mr. Habeeb Rahman P.M., Managing Partner, M/s Profile Granites, vide his application received on 02-09-2013, has sought Environmental Clearance under EIA Notification, 2006 for the building stone quarry project in Survey Nos. 78/2A at Kumaranellur Village, Kozhikode Taluk, Kozhikode District, Kerala for an area of 4.830 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 18th 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.

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| File No. | 130/SEIAA/KL/2437/2013 | |
| Name of project | Building Stone Quarry of M/s. Profile Granite, | |
| Brief description of the project | Open cast mining | |
| Category/Subcategory & Schedule | "B" Category, 1(a) | |
| Location Syno/ district Taluk/ village etc. | Survey No. 78/2A, of Kumaranellur Village, Kozhikode Taluk and District and Kerala State. | |
| GPS co-ordinates | Longitude: E 76° 01' 19.920" to E 76° 01' 25.320" Latitude: N 11° 18' 29.6" to N 11° 18' 16.956" | |
| for Mining projects | Extent of area (in hectares) | 4.83 Ha. |
| | Minimum and maximum height of excavation (MSL) | Highest 165 and Lowest 45 MSL |
| | Life of mine proposed | 8 years |
| | Ultimate depth of mining (in MSL) | 45 m (120 m from hill top level) |
| | Distance from the adjacent quarry | 3 km from quarry towards E |
| | Capacity of production | 4,02,000 TPA |
| | Details of Project Cost | Total: Rs 2.0 Crores Land cost: Rs. 1.0 Crore Plant & Machinery: Rs. 1.0 Crore |

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| CRZ recommendations | Not Applicable as no part of the lease area CRZ. |
| Forest clearances | Not Applicable as no part of the lease area is forest. |

ABOUT THE PROJECT

Environmental parameters

Mitigation Measures

WATER

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| Water requirement & sources | Domestic consumption - well water |
| RWH units proposed | Dust suppression: Rain water collected in the pit |
| Facilities for liquid waste treatment | Two Rain water harvesting ponds are proposed during post mining where ponds extending over an area of 0.5 Ha. |
| Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers? | Liquid wastes from toilet and office will be treated in septic tank and soak pit |
| Does it have provisions for use of recycled water | Nil |
| | Quarrying activity does not require water hence no recycling. |

LAND

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| Proximity to forest lands | No forest zone is falling proximity of 10 km buffer zone |
| Access road to the site - Width & Condition | The lease area is accessible by all-weather roads from Anayamkundu towards SE which leads to mine at a distance of 3km from Anayamkundu. |
| Storage of explosives /hazardous substances | Explosives will be procured, stored, transported, handled and used in accordance with Indian Explosive Act 1884, MSIHC Rules 1989, Mines Act, 1952 and regulations there under.. |
| Facility for solid waste mgmt | Solid waste will be utilized for road and construction works. |
| Topographic features/ slope | General strike: NW - SE with local variation of 10° - 15° on either side. Dip : 70° - 80° dipping north easterly Length of the ore body : 380 mts. Width of the ore body : 80-165 mts. Depth of the ore body : 135.00 mts |

Top soil, overburden etc

Topsoil - 34,913 tonnes

The total amount of topsoil is existing within the leasehold is calculated below:

Length: 380.00 mts X Width 122.5 mt X Depth 0.5 mts X Bulk density 1.5 = 34,913 tonnes.

ENERGY

Energy requirement

Energy Sources

2 Nos. of DG. Sets.

No energy is required for quarry operation, since quarry operation is carried out by HEMM which are operated by HSD and there is KSEB power supply for operation of crushers and also there are two DG sets as a stand by in place of no power supply.

BIODIVERSITY

Presence of any endangered species or red listed category

There are no endangered or rare species in the area.

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| Loss of native species and genetic diversity | There will not be any loss of native species of genetic diversity as the quarry already exists and continuation of the same will not affect or loss of native species in general. |
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SOCIAL ASPECTS

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| Proximity to nearest habitation | Kumaranallur village which is at a distance of 0.5 Km. |
| CSR components suggested | Rs. 10 Lakhs/annum will be earmarked for socio developmental activities Rs. 15 Lakhs/annum is earmarked as corpus fund for environmental mitigative measures. Proponent shall provide required Medical facility to all the employees, medical check-up camps to the local villagers, supply of drinking water, and contribution of funds for social and cultural program. Proponent shall pay the funds/contribution for construction of school, bus shelter, transportation for school children and also also donate cloths and ornaments for the marriage of poor girls. |

GENERAL

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| Does it propose environment management plan | Yes, the Environmental Management Plan prepared and submitted to SEIAA. |
| Does it have eco restoration programmes | Post mining closure plan is prepared and the same will be implemented. |
| Litigation/court cases, if any, against the project (provide details) | There are no litigations against the project as declared by the Project Proponent. |
| Details of Authorised Signatory | Mr. Habeeb Rahman P.M. Managing Partner M/s Profile Granite Puthoor Madathil House Mukkam P.O., Kozhikode Kerala - 673602. Mob. No. +91-9037238754; +91-9447111191; 9947111191 Email: Profileenterprises@gmail.com |
| Details of NABET approved EIA consultant organisation | M/s Metamorphosis #143, 2 nd Floor, 39 th Main, 4 th Cross Behind Silk Board BTM Layout 2 nd Stage Bengaluru - 560068; TeleFax: +9180 26783006 Email: mail@metamorphosis-india.com |

The proposal was considered as agenda item no. 20.09 in the 20th SEAC meeting held on 5th October 2013 and was deferred for site inspection and seeking additional clarifications from the proponent for further processing of the application. Subsequently, a subcommittee of SEAC consisting of Dr. N.G.K. Pillai, Chairman, SEAC; Sri, John Mathai, Dr. Harikumar and Dr. E. J. Joseph, Members of SEAC inspected the site on 22.10.2013 and submitted the following report.

The site is located on the south facing hill slopes with moderate slope. Rubber is the dominant land use in the lower part while rock is exposed in places in the upper slope. Charnockite is the main rock type and is mostly massive in nature. The Sy. No. 78/2A covers a vast area. A number of working quarries are seen in that Sy. No. and some quarries are seen abandoned. The approach road is narrow and not well maintained. Settlements are not seen except for the house near entrance at the main road.

Following points merit consideration-

- a) The boundary of the plot with distance from reference boundary pillars has to be provided in cadastral map. The precise coordinates of these points may also be given. The boundary of plot given in the report needs correction.
- b) Steep cuttings are seen in the old workings. This needs to be reduced by providing benches preferably along the strike of the body.
- c) A distance of 100 m from the HT line and 50 m from the road should be maintained as No Development Zone. This may be demarcated with pillars. A proper green belt has to be provided to the 50 m buffer zone by the side of the road.
- d) Storm water channelization is presently not practised. The water from the pit area need to be let into desiltation tanks and clarified before it is let out. Possibility of providing a check dam at the lowermost valley section for a next stage of desiltation and clarification may be explored".

In the mean time the proponent submitted the clarifications/ additional documents. The matter was placed before SEAC in its 23rd meeting held on 6th and 7th January 2014 as agenda item no. 23.06 for verification of the documents for its satisfactory receipt. The Committee verified the additional clarifications/documents submitted by the proponent and it was found that the proponent has not satisfactorily provided the clarifications/documents sought earlier. Considering the same, the proposal was deferred seeking satisfactory clarifications from the proponent regarding the above items, which were sought earlier. Also, further to the field inspection report the proponent was directed to provide the following:

- (i) Assurance in the form of affidavit that steep cuttings seen in the old workings shall be reduced by providing benches preferably along the strike of the body.
- (ii) Assurance in the form of affidavit that a distance of 100 m from the HT line and 50 m from the road shall be maintained as No Development Zone and the same may be demarcated with pillars.
- (iii) Assurance in the form of affidavit that green belt shall be provided to the 50 m buffer zone by the side of the road.
- (iv) Since storm water channelization is presently not practiced, the water from the pit area need to be let into desiltation tanks and clarified before it is let out. Provision for a check dam at the lowermost valley section for a next stage of desiltation and clarification to be provided.

Since the proponent has provided the clarifications/documents sought, the matter was placed before SEAC in its 26th meeting held on 20th and 21st March 2014 as agenda item no. 26.14 for verification of the documents for its satisfactory receipt. The Committee verified the additional clarifications/documents provided by the proponent which were found to be satisfactory. The proponent was further directed to provide a map showing the No Development Zone with pillars demarcating a distance of 100 m from the HT line and 50 m from the road. The Committee also found that a complaint has been forwarded from MoEF pertaining to the quarries including the areas of the present project. Considering the same, the item was deferred and it is decided that the proposal shall be further considered and final decision taken only after analyzing the complaint and obtaining the reports thereof. On submission of the clarifications by the proponent, the item was placed in 30th SEAC meeting held on 6th and 7th June 2014 considered the proposal under agenda item no. 30.55. The Committee verified the additional clarifications/documents submitted by the proponent, which were found to be satisfactory. The Committee examined the complaint forwarded from MoEF pertaining to the quarries including the areas of the present project and observed after the field visit that the quarrying activities related to the present projects is not creating any serious environmental impacts. Hence the proposal was recommended for environmental clearance stipulating usual conditions for mining projects.

3. The Application connected documents affidavits produced and recommendation of SEAC were placed in the 33rd meeting of the SEIAA held on 24-09-2014. The SEIAA considered the recommendation of SEAC, the assurances given by the project proponent in the report and affidavit, inspection report of SEAC and 011 other relevant documents. It was decided to approve the

ad to issue Environmental Clearance under the EIA notification 2006 as per the documents
acted by the project proponent as appraised and recommended for by the SEAC.

4. Environmental Clearance under EIA notification 2006 is accorded for the proposed quarry project of M/S Profile Granites, Puthoor Madathil House, Mukkam P.O., Kozhikode in Survey No. 78/2 A of Karamanellor Village Kozhikode Taluk subject to all the mining features, Environmental Management Plans as undertaken in the EMP submitted to SEIAA which will form part of this proceedings on if incorporated herein, and the following additional specific conditions, and this general conditions on mining of miner mineral appended hereto:

- a) The boundary of the plot with distance from reference boundary pillars has to be provided in the cadastral map. The precise coordinates of the se points may also be given. The boundary of the plot given in the report needs correction.
 - b) Steep cuttings are seen in the old workings. This needs to be reduced by providing benches preferably along the strike of the body.
 - c) A distance of 100 m from the HT line and 50 m from the road should be maintained as No Development Zone. This may be demarcated with pillars. A proper green belt has to be provided to the 50 m buffer zone by the side of the road.
 - d) Storm water channelization is presently not practiced. The water from the pit area need to be let into desiltation tanks and clarified before it is let out. Possibility of providing a check dam at the lowermost valley section for a next stage of desiltation and clarification may be explored.
5. Validity of this Environmental clearance will be 8 years for 1-10-2014 provided and it will be subject to review at any stage earlier, if any of the conditions is the E.C. is violated, or not duly complied with.

- I. Compliance of the conditions herein will be monitored by the Directorate of Environment and Climate Change or its agencies and also by the Regional office of the Ministry of Environment and Forests, Govt. of India, Bangalore.
- II. Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.
- III. Instances of violation if any shall be reported to the District Collector, Kozhikode to take legal action under the Environment (Protection) Act 1986.

For Member Secretary (SEIAA)

To
~~Sri. Habeeb Rahman P.M.~~
Managing Partner,
M/S Profile Granites,
Puthoor Madathil House,
Mukkam P.O., Kozhikode
Pin. 673 602

Copy to :

1. IA-Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110003
2. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034
3. The Addl. Chief Secretary to Government, Environment Dept, Government of Kerala
4. The District Collector, Kozhikode
5. The Director, Dept. of Environment and Climate Change, Govt of Kerala, Tvm - 24.

6. The Director, Mining and Geology Department, Government of Kerala
7. The Secretary, Karassery Grama Panchayath, Kozhikode District
8. Chairman S EIAA Kerala
9. Website
10. Stock file
11. O/c

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

GENERAL CONDITIONS (for mining projects)

- (i) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.
- (iv) The project shall incorporate devices for solar energy generation and utilization wherever possible.
- (v) Sprinklers shall be installed and used in the project site to contain dust emissions.
- (vi) Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- (vii) At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumpings and overburden and planted with indigenous plant species that are eco-friendly.
- (viii) Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented in tune with the conditions specified in the Companies Act, 2013.
- (ix) Barbed metal wire fencing around the mining area shall be provided with a height of not less than 5 ft so that falling of animals/human beings/dumping of garbages etc. does not happen.
- (x) Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- (xi) Control measures on noise and vibration prescribed by KSPCB should be implemented.
- (xii) Quarrying activities should be limited to day time as per KSPCB guidelines.
- (xiii) Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- (xiv) A licensed person should supervise/ control the blasting operations.
- ~~(xv) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.~~
- ~~(xvi) Overburden materials should be managed within the site and the old quarry, if any, should be reclaimed and restored.~~
- (xvii) Height of benches should not exceed 5 m and width should not be less than 5 m.
- (xviii) Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
- (xix) Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of nearest stream bed, whichever is less.
- (xx) No mining operations should be carried out at places having a slope greater than 45°.
- (xxi) Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.
- (xxii) The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- (xxiii) Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
- (xxiv) The transportation of minerals should be done in covered trucks to contain dust emissions.

The proponent should plant trees at least 3 times on the land that has been occupied while clearing the land for the project.

Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.

(xvii) Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.

(xviii) Norms of Kerala State Pollution Control Board should be adhered to regarding distance criteria of residences, roads, rivers and worship places.

(xix) 200m buffer distance should be maintained from forest boundaries.

(xxx) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should have been obtained before initiating activity.

(xxxi) All other statutory clearances should have been obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.

(xxxii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.

(xxxiii) The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

(xxxiv) The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974; the Air (Prevention and control of Pollution) act 1981; the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

(xxxv) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.

(xxxvi) A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.

(xxxvii) The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.

~~(xxxviii) The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.~~

~~(xxxix) The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.~~

[Signature]

[Signature]

Member Secretary, SEIAA Kerala