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Sub: BIAA Hersk-Quarry project in Survey No. 2.1-7, 21/1-3, 21/1-4 and 21/1-2 in Enanalism Village, Asymma Panchayat, Muvattupuska Tilik, Emakuslan district by Mic Mudakhill Garrance - Accorded

## Environmental Cerrance

No. 1545EIAA/KIL/3974/2013

dated. Trinwananhapitran 01.10.2014

Ref: - Application dated 30.10.2013 of Mudakkalil Granites Private Ltd, Ayawara P.O. Karimattan, Moovattupuzha, pin 636-676

- 2. Minutes of the 24th meeting of SEAC Kerala held on 07.12.2013
- 3. Minutes of the 25th meeting of SEAC, Kerala held on 14/15.02.2014
- 4. Minutes of the 30th meeting of SEAC Kerala held on 6/7.06.2014
- 5. Minutes of the 33rd meeting of SEIAA, Kerala held on 24,09,2014

## ORDER

Sri M.A Mathai, authorized signatory of M/s Mudakkalil Granites Pvt. Ltd, Ayavana Panchayath, Karimattom, Muvattupuzha Taluk has applied for Environmental Clearance vide application received on 08.11.2013 for the quarry project of M/s Mudakkalil Granites Pyt, Ltd in Sy. Nos. 91/1-7, 91/1-3, 91/1-4 and 91/1-2 at Enanalloor Village, Ayavana Panchayath, Muvattupuzha Taluk, Ernakulam district, Kerala from 6.7571 hectares for extraction of building stone. 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. Proposed Capacity is 2, 70,000 MTA. It is an existing quarry with mine over about 2,730 ha of pit area. Geographical location of the project site in 9059'21.50 to 9059' 12.22'' Latitude (N) and 760 37'20.43" to 76°37'06.07"(E). The quarry is interlinked with a Crusher/M sand unit located within the complex. It is stated that there are no litigations against the lease area or applicant in any court of law. Lease area is a private land. Topography is hilly. Highest elevation is 88m MSL and lowest 38m MSL. Expected cost of the project is 1.42 crores. Daily water demand is 5 KLD. The total power requirement is 75 kw which will be taken from diesel engines of fuel quantity 16 to 20 lr/hr. The nearest house is located at 108m south west of the proposed quarry. Diesel engine emissions, gaseous emissions due to transportation, dust, and construction activities are estimated as possible pollutants.

2. The quarry project is situated 25 meters north of the quarry area at 25m and 'Appu Granites', Ayavana 3kms south. It is assured that at the end of life of the mine, excavated pit will be back filled

and reclairs educing rehabilitated by plantation with native prices access of the anusal son-spicion. As a part of Corporate Decial Responsibility Rs 5.5 kms per account for clifferent activities of consultations with local village suthouties is proposed to kimplemented As a part of soccast and benefit charing (A.BS) one percent of the annual profit of the firm would be given to the Biodiversity Managements Committee (BMC) of the concerned Gramulanchayat, towards restoration of biodiversity loss due to the mining activity. As an eco-restoration programme, yearwise afforestation programme for the life of the mine, about 5000 trees will be planted to easie the ecosystem to its original form to the maximum possible extent by designing the green cover with the same naive species.

The application was considered in the 22<sup>nd</sup> SEAC meeting held on 7<sup>th</sup> December 2013 as agendate item no. 22.12 and the Committee deferred the item for site visit. The proponent was also directed to provide the 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 10<sup>th</sup> December 2013 and in the mean time the proponent has submitted the clarifications/additional documents. The site is located in the elevated lands to the east of Karimattom-Randar road and is approachable through Muvattupuzha-Kalloorkad road by taking northerly deviation near Randar. The quarry is located in an east-west hill ridge with peak elevation of 92 m AMSL. The general slope is moderate towards south and south east. Over burden thickness varies but thicker cover is noticed in the western side. Charnockite is the main rock type. Dominant land use in the area is rubber plantations. The site has existing quarry and a crusher unit. Abandoned quarry pit is presently used as storm water collection pond. Steep cliff face is seen in the eastern boundary of excavation.

- The area presents two blocks a) currently being exploited and b) area yet to be developed with a narrow land in between. The area under exploitation may be completed first and the second area subsequently. In this process the exploited area can be restored by using part of the overburden.
- The storm water from the upper slopes needs to be managed properly by providing garland drains and directed to the streams in the lower valley.
- The cliff like faces of old workings must be provided with fencings.
- The RWH pit must be provided with protective fencing.
- There is another quarry adjacent to the proponent's quarry. The boundary between the two units does not provide statutory distance. Hazardous condition exists, which needs to be addressed.

In view of the site inspection report and additional charifications by the proponent, the matter was placed before SEAC in its 25<sup>th</sup> meeting held on 14<sup>th</sup> and 15<sup>th</sup> February 2014 as agenda item no. 25.44, for verification of the documents. The Committee verified the additional clarifications/documents submitted by the proponent, and felt that the same requires detailed examination and the item was deferred to be considered in the new SEAC meeting. Hence the item was placed for reconsideration of SEAC in its 26<sup>th</sup> meeting held on 20<sup>th</sup> and 21<sup>st</sup> Match. 2014. The Committee verified the additional

cialificate and a small reduced by the purpoler rodyne for adobe castilization. Failer to the deinspection councilled by sub-committee of JEARC at examplifing the report thereof, the term valdefensed directions to proponent to submain de-talled plantaine for for further consideration of the proposal:

- 1. The atacarrently being exploited which has be compact first.
- 2. The are for subsequent exploitation withmrow landinbetween.
- 3. The restration plan for the exploited areasing part of decverburdes.
- 4. Detailed plan to provide statutory distance little en the garry adjacent to this proponents quarry.

Upon furnishing of the additional clarification the application and reports were again placed in the 30<sup>th</sup> meeting of the SEAC as item 30:63. The committee recommended the project also subject to the usual conditions. The recommendations were placed before the 33<sup>rd</sup> meeting of the SEIAA held on 24.05.2014. The SEIAA considered the recommendation of SEIAA, the assurances given by the project proponent in various reports and clarifications submitted by him, inspection report and all other relevant documents. It was decided to approve the project and to issue Environmental Clearance under the EIA notification 2006, as per the documents submitted by the project proponent as appraised and recommended by the SEAC.

- 4. Environmental Clearance under the EIA notification 2006 is accorded for the proposed quarry project of M/s Mudakkal Granites Pvt Ltd in Survey No.s 91/1-7, 91/1-3,91/1-4,91/1-2 at Enanalloor Village, Ayavana Panchayat, Moovattupuzha Taluk, Ernakulam district subject to all the mining features, Environmental management plans as undertaken in the pre feasibility report and Environment Management plan as submitted to the SEIAA, which will be deemed to be a part of this proceedings as if incorporated herein, the following additional specific conditions and the general conditions of mining of minor minerals appended hereto:
  - The area presents two blocks a) currently being exploited and b) area yet to be developed with a narrow land in between. The area under exploitation may be completed first and the second area subsequently. In this process the exploited area cara be restored by using part of the overburden.
  - The storm water from the upper slopes needs to be managed properly by providing garland drains and directed to the streams in the lower valley.
  - The cliff like faces of old workings must be provided with fencings.
  - The RWH pit must be provided with protective fernoing.
  - There is another quarry adjacent to the proponent' se quarry. The boundary between the two units does not provide startutory distance. Hazardous condition exists, which needs to be addressed.

The Validity of this E.C will be 14 years 150.10 then be reviewed once in five year subject to relew at any time on violation of any occurring in this long.

- Compliance of the conditions berein weills mornisoned by he Princewate of Environment and Climate Change or its groves and also by the Plegional office of the Ministry of Environment and Forst, Jovet, of Inda, Bangatore,
- ii) Necessary assistance for entry and incipation should be nevided by the project Proponent and those who are engaged manusted by him to the staff for Inspection or monitoring.
- iii) Instances of violation if an shall be reported to the District Collector, Emakulam to take legal actions der the Environment (Projection) Action 1986.

The given address of correspondence for the authorized signatory of the project is Sri M A Mathai, Managing Director, M/s Mudakkalil Granites Pvt Ltd., Ayavana P.O., Karimattani, Muvattupizha Ernakulani, Kerala – 686676. Tel No. 0485-2282056 Mob. No. 09447379058, 09388256656, gmail — mgpl93@yahoo.co.in

Agency with NABÈT accreditation for EIA is M/s Enkay Enviro Services Pvt Ltd, 24-B, Dabu Marg, Gopal Bari, Ajmer Road, Jaipur, Rajasthan — 302001.

To

Sri M B Mathai
Managing Director
M/s Mundakkalil Granite Pvt Ltd.
Ayavana P.O, Karimattam, Moovattupuzha
Ernakulam – 686 676



For Member Secretary, SEIAA

## 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, 4<sup>th</sup> Floor, E&F Wing, II Block Koramangala, Bangalore-560034
- 3. The Addi. Chief Secretary to Government, Environment Dept., Government of Kerala
- 4. The District Collector, Emakulam
- 5. The Director, Dept. of Environment and Cl armate Change, Govt. of Kerala, Tvm 24.
- The Director, Mining and Geology Department, Government of Kerala
- 7. The Secretary, Ayavana Grama Panchayat L. Muvattupuzha, Ernakulam
- 3. Chairman of SEIAA Kerala
- % \_ Website
- 16. Stock file
- 1. O/c

## LOCAL CONTROCT PARTICLES CONTROCT PROPERTY SERVALLA (Comming projects)

- (i) Pain Water Harvesting expecity should be installed aper the prevailing provisions of IMBR / KPBP, while otherwise specified elsewhere.
- (ii) Environment Monitoing Cell as agreed under the address filed by the proponent should be formed and made functional.
- (iii) Suitable avenue tresshould be planted along eithers de of the tarred road and open parking areas, if my, inclusive of operach road and internal road.
- (iv) The project shall interporate devices for solar energy generation and utilization wherever possible.
- (v) Sprinklers shall be installed and used in the project sit to contain dustemissions.
- Eco-respond including the mine closure plan shall be done at the own cost of the project proponent
- (vii) At least 10 percent cut of the total excavated pit are ashould 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 feating 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 quarries, 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.

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- (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.
- (xxv) The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- (xxvi) Disposal of spent Oil from diesel engines should be as specified under relevant Rules/Regulations.
- (xxvii) Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
- (xxviii) Norms of Kerala State Pollution Control Board should be adhered to regarding distance criteria of residences, roads, rrivers and worship places.
  - (xxix) 200 na buffer distance should be maintained From forest boundaries.
- (XXX) Consert from Kerala State Pollution Control Board under Water and Air Act(s) should have been obtained before initial ting activity.

- (27.2) All the statutory clearances is their have be obtained applicable, by point properties from the respective competent authories in claim that following and storage desplosive.
- (ZZZII) In the case of any change(s) in the scorpe of the pure)s, he project would require a fresh approisal by this Authority.
- (XXXIII) The Authority reserves the right to add additional safetand measures subsequently, if found necessary, and to take action including revolving of the environment clearance under the provisions of the Environment (Protection) Ad, 1986, to essure effective implementation of the suggested safe guard measures in a time boundard satisfatory marine.
- (XXXIV) The stipulations by Statutory Authorities under differnt Acts and Notifications should be compiled with, including the provisions of VVater (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 Millication, 2066,
- (XXXV) The project proponent should advertise in atleast 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 invironmental 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 proporent 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 websits 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.



Member Secretary, SEIAA Kerala