



सत्यमेव जयते

Proceedings of the State Environment Impact Assessment Authority Kerala

*Present: Prof. (Dr.) K.P. Joy, Chairman, Dr. J. Subhashini, Member and Sri. P. Mara
Pandiyam I.A.S., Member Secretary.*

Sub: Environmental Clearance - Application for environmental clearance for the quarry project in Resurvey No. 220/1, 220/2 and 220/4 at Mulamkuzhy village, Malayattoor-Neeleswaram Grama Panchayat, Aluva Taluk, Ernakulam District, Kerala by Sri. Bisi Mon, K. C. – Managing Director M/s. Anugraha Metals and Sands Private Limited - E.C-Granted

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 497/SEIAA/EC3/3485/2014

dated, Thiruvananthapuram 02-02-2016

- Read:-**
1. Application dated 14.07.2014 from Sri. Bisi Mon, K. C. – Managing Director, M/s. Anugraha Metals and Sands Private Limited, Malayattoor P. O., Mulamkuzhy, Kalady (via), Ernakulam Dist. – 683587.
 2. Minutes of the 48th meeting of SEAC held on 06-07-11-2015.
 3. Minutes of the 47th meeting of SEIAA held on 07-01-2016.

ENVIRONMENTAL CLEARANCE NO. 15/2016

Sri. Bisi Mon, K. C., Managing Director of M/s Anugraha Metals and Sands Private Limited, Malayattoor, Mulamkuzhy, Ernakulam District vide his application dated 14-07-2014, has sought Environmental Clearance under EIA Notification, 2006 for the proposed Expansion of Building Stone Quarry in Resurvey No. 220/1, 220/2, 220/4, 272/5, 272/6 and 272/7 at Mulamkuzhy village, Malayattoor-Neeleswaram Grama Panchayat, Aluva Taluk, Ernakulam District, Kerala for an area of 3.8645 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) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

DETAILS OF THE PROJECT

Sl. No.	Item	Details
1	Name of the project/s	Anugraha Metals and Sands Private Limited
2	Sl. No. in the schedule	1 (a)
3	Proposed capacity/area/ length/ tonnage to be handled/ command area/lease area/number of wells to be drilled	Total Land Area: 03.8645 Ha Land Document is attached as Annexure-I
4	New/Expansion/Modernization	Expansion
5	Existing Capacity/Area etc.	Total Quantity of Quarrying Material: 50 MT/day Total Extend of Land: 0.6960 Hectare
6	Category of Project i.e. 'A' or 'B'	B
7	Does it attract the general condition? If yes, please specify.	Not Applicable
8	Does it attract the specific condition? If yes, please specify	Not Applicable
9	Location	
	Plot/Survey/Khasra No.	Resurvey No. 220/1, 220/2, 220/4, 272/5, 272/6 and 272/7
	Village	Mulamkuzhy, Malayattoor-Neeleswaram Grama Panchayat
	Tehsil	Aluva
	District	Eranakulam
	State	Kerala
10	Nearest railway station/airport along with distance in kms	Kochi International Airport: 20 Km in South West Direction Angamaly Railway Station: 17 Km in Western Direction
11	Nearest Town, city, District Headquarters along with distance in kms.	Nearest City: Angamaly at 17 Km in Western Direction District Headquarters: Eranakulam at around 35 Km.
12	Village Panchayats, Zilla Parishad., Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given	Malayattoor-Neeleswaram Grama Panchayat, Malayattoor P.O., Kalady (Via), Eranakulam District Ph: +91 484 2462237
13	Name of the applicant	Bisi Mon, K. C.
14	Registered address	M/s Anugraha Metals and Sands Private Limited.,

		Malayattoor P. O., Mulankuzhy – 683587 Kalady (via), Eranakulam Dist.
15	Address	Bisi Mon, K. C., Managing Director M/s Anugraha Metals and Sands Private Limited., Malayattoor P. O., Mulankuzhy Kalady (Via), Eranakulam Dt. – 683587
	E-mail	anugrahametals@gmail.com
	Telephone No.	+91 484 2283022, 8646053541
16	Whether the proposal involves approval/clearance under: if yes, details of the same and their status to be given (a) The Forest (Conservation) Act, 1980? (b) The Wildlife (Protection) Act, 1972? (c) The C.R.Z. Notification, 1991?	No
17	Whether there is any Government Order/Policy relevant/relating to the site?	None
18	Forest land involved (hectares)	None
19	Whether there is any litigation pending against the project and / or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. (c) Orders/directions of the Court, if any and its relevance with the proposed project	As stated by the proponent no litigation pending against the project and/or land in which the project is proposed to be set up.

2. The case was first considered in the 41st meeting of SEAC held on 16/17.06.2015 on receipt of the mining plan submitted on 15.05.2015. The committee verified the case in details and deferred for site inspection. Field visit was carried out on 04.07.2015 by the sub-committee of SEAC, Kerala, comprising Dr. Jayson, E. A. and Sri. John Mathai.

The project is an active quarry, located at about 3.5 km ESE 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. Steep cuttings of previous quarry activity are being altered to form benches. The rock type is foliated Charnockite and its variants with closely spaced fractures oriented in NS direction.

Major faults are not observed. The upper slopes where quarrying has not been initiated are covered with humus rich top soil and limited overburden. The southern part, which forms an abandoned quarry face, is currently left out as it is not in possession. Being an elevated land, streams are not seen in the site. However the flow of storm water is directed to the east along the saddle portion between the elevated lands. The main RB canal of the Periyar Valley irrigation project is seen on the lower elevation about 500m south of the quarry. The area in general supports rubber plantation. The adjacent northern side that appears as forest is covered with rubber plantation but presently not being tapped or looked after. However, natural vegetation forming part of the Illithode RF is seen beyond 500m to the east. Dwelling units are not seen in the immediate vicinity of 100m. The crusher unit that utilizes the building material from this quarry is located about 1.5 km to the east. Another quarry is functional at about 200m SE of this site. The certificate from the Revenue officials that this land has not been assigned for any other purposes has not been verified.

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

1. Protective fencing must be provided along the steep cuttings and 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 to the eastern part 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 motorable condition by the proponent. The access to the crusher must also be maintained.
6. 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.
7. Vegetation is seen all around the quarry but must be maintained till the entire life of quarry.'

On receipt of the IR 43rd meeting of SEAC held on 15.07.2015 has considered the matter and asked for clarification about the location of two survey numbers. On receipt of

the same 45th meeting of SEAC held on 11/12.09.2015 has considered the matter and found that the clarification submitted by the proponent regarding the relative position of plot under Sy. No. 220 and 272 are not clear and hence the Committee deferred the item and decided to call the proponent in the next meeting.

As suggested by SEAC the proponent has submitted the revised Mining Plan which was certified by the District Geologist, Ernakulam. The proponent was also present in the meeting as per the decision of 45th meeting of SEAC and produced the certificate issued by VO, Malayattoor (No. 15/15(52) dated 31.07.15). As per the certificate the land comprised in Sy. No. 272/5, 6, 7 are part of Govt. purambokku area. Since the proponent has not submitted NOC for mining in that area the committee decided to consider Sy No. 220/1, 220/2 and 220/4 for the issuance of E.C. in its 48th meeting held on 6/7.11.2015.

The Committee appraised the proposal based on the Mining Plan, Prefeasibility Report, field inspection report and all other documents submitted along with the Form I application and recommended to issue Environmental Clearance for mining in the area covered under Sy. Nos. 220/1, 220/2 and 220/4 with the following specific conditions, in addition to the general conditions stipulated for mining projects.

1. Protective fencing must be provided along the steep cuttings and 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 to the eastern part 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 motorable condition by the proponent. The access to the crusher must also be maintained.
6. Vegetation seen all around the quarry must be maintained.

The case was considered by SEIAA in its 47th meeting held on 07-01-2016. The Authority decided to grant E.C. subject to the usual conditions for mining projects. State Environmental Impact Assessment Authority, Kerala hereby accord environmental

clearance for the quarry project of M/s Anugraha Metals and Sands Private Limited, Malayattoor P. O., Mulankuzhy, Kalady (via), Ernakulam district in Resurvey No. 220/1, 220/2 and 220/4 at Mulankuzhy village, Malayattoor-Neeleswaram Grama Panchayat, Aluva Taluk, Ernakulam District, Kerala under the EIA notification 2006, with the following specific conditions, in addition to the general conditions stipulated for mining projects as appended hereto:

(i) To the extent possible, local Biodiversity Management Committee shall be involved in the Environmental Management/ restoration activities.

(ii) Reclamation and eco restoration should be done by planting native species.

4. The clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures as assured in Chapter 2 to 8 of the Pre-Feasibility report mining features and environment management plan in chapters 2 to 12 and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and undertakings in the above chapters will be deemed to be part of these proceedings as conditions as undertaken by the proponent, as if incorporated herein.

5. Validity of the environmental clearance will be five years from the date of this clearance, subject to earlier review in the event of violation or non-compliance of any of the conditions stipulated herein.

6. 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 & Forests, Govt. of India, Bangalore.

i) 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.

ii) Instances of violation if any shall be reported to the District Collector, Ernakulam to take legal action under the Environment (Protection) Act, 1986.

7. The given address for correspondence with the authorised signatory of the project is Sri. Bisi Mon K. C. – Managing Director, M/s. Anugraha Metals and Sands Private Limited, Malayattoor P. O., Mulankuzhy, Kalady (via), Ernakulam Dist. – 683587.

Sd/-

P. MARA PANDIYAN, I.A.S.
Member Secretary, SEIAA
&

Addl. Chief Secretary
Environment & Forests Department
Government of Kerala.

To,

Sri. Bisi Mon K. C. – Managing Director
M/s. Anugraha Metals and Sands Private Limited,
Malayattoor P. O., Mulankuzhy,
Kalady (via), Ernakulam Dt. – 683587.

Copy to:

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala
3. The District Collector, Ernakulam
4. Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm-24
5. Director, Mining & Geology, Thiruvananthapuram -4.
6. The Secretary, Malayattoor-Neeleswaram Grama Panchayat, Ernakulam-683574
7. Chairman, SEIAA, Kerala
8. Website
9. S/f, O/c



Forwarded/ By Order

G. Rajeev,
Administrator.

Administrator

State Environment Impact Assessment Authority
Pattimukku, Pattim
Thiruvananthapuram-695024
Phone: 0471-2742264

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA
GENERAL CONDITIONS (for mining projects)

- (i) Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
- (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, including of approach road and internal roads.
- (iv) Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
- (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
- (ix) *The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mine.*
- (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 5m and width should not be less than 5m.
- (xviii) Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
- (xix) *Maximum depth of mining from general ground level at site shall not exceed 10m*
- (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) *A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided*

- (xxix) 200 m buffer distance should be maintained from forest boundaries.
- (xxx) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.
- (xxxi) All other statutory clearances should be 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 '3ft X 3ft' with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.
- (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.
- (xl) The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project.



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