



***Proceedings of the State Environment Impact Assessment
Authority Kerala***

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

Sub: Environmental Clearance - Application for Environmental clearance for the quarry project in Sy. no.111/8-2, 113/1-2, 113/1-3, 112/5, 114/1, 114/2, 114/7, 113/1, of Chithara Village & Panchayat, Kottarakara Taluk, Kollam District, Kerala by Sri. Dilly Sukhy, Managing Partner, M/s Ananthapuri Blue Metals – E.C- Granted

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 799/EC3/2042/SEIAA/2015

dated, Thiruvananthapuram 11-02-2016

- Read:-**
1. Application dated 27.05.2015 from Sri. Dilly Sukhy, Managing Partner, M/s Ananthapuri Blue Metals, Moonnumukku P.O., Chithara, Kottarakara, Kollam District, Kerala-695609.
 2. Minutes of the 47th meeting of SEAC held on 13/14-10-2015
 3. Minutes of the 45th meeting of SEIAA held on 04-12-2015.
 4. Minutes of the 48th meeting of SEIAA held on 23-01-2016.

ENVIRONMENTAL CLEARANCE NO. 17/2015

Sri. Dilly Sukhy, Managing Partner, M/s Ananthapuri Blue Metals, Moonnumukku P. O., Chithara, Kottarakara, Kollam -695609, vide his application dated 27.05.2015, has sought Environmental Clearance under EIA Notification, 2006 for the proposed Expansion of Building Stone Quarry in Survey Nos. 111/8-2, 113/1-2, 113/1-3, 112/5, 114/1, 114/2, 114/7, 113/1, of Chithara Village & Panchayat, Kottarakara Taluk, Kollam District, Kerala for an area of 2.2541 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

Name of project		Quarry project of M/s Ananthapuri Blue Metals	
Category/Subcategory & Schedule		Category B/B/2 & Schedule 1 (a)	
Location Sy no/ district, Taluk/ village etc.		Survey No. 111/8-2, 113/1-2, 113/1-3, 112/5, 114/1, 114/2, 114/7, 113/1, of Chithara Village & Panchayat, Kottarakara Taluk, Kollam District, Kerala	
GPS co-ordinates	Latitude (N)	08°47'35.57" to 08°47'27.29"	
	Longitude (E)	76°59'21.22" to 76°59'15.39"	
for Mining projects	Extent of area (in hectares)		2.2541 ha.
	Minimum and maximum height of excavation (MSL)		205 m MSL and 180 m. MSL
	Life of mine proposed		5 Years
	Ultimate depth of mining (in MSL)		175 m. MSL
	Distance from the adjacent quarry		There is no quarry operating within 500 m. radius.
	Capacity of production		1,00,000 MTA
	Details of Project Cost		Rs. 3.50 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.
ABOUT THE PROJECT			
Environmental parameters considered		Description	
WATER			
Water requirement & sources		The total water requirement is about 17 KLD in which 2 KLD is for domestic which would be sourced from open well, 13 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.	
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).
LAND	
Proximity to forest lands	Palode, 10 km., S
Is the land assigned for any other special purpose; Give details	No
Access road to the site –Width & Condition	7 m. wide, tarred road, S
Storage of explosives /hazardous substances	Explosives will be stored as per Explosive Act / Rules.
Facility for solid waste management.	The municipal solid waste will be suitably disposed.
Topographic features/ slope	The topography of the lease area is hilly area covered with native tree, climbers, grass, shrubs, herbs etc. Slope towards south side.
Proneness of the area for landslides	No
Significant land disturbance resulting in erosion, subsidence & instability	Nil
Top soil, overburden etc.	Top soil = 3,271cu.m. Overburden = 4,508cu.m.
AIR	
Air quality meeting requirements	As per rules
Noise level meeting requirements	As per rules
Likely emissions affecting environment	Diesel engine emissions & emissions from movement of vehicles like dumpers, trucks, tankers etc. will also generate.
ENERGY	
Energy requirement	The total power requirement will be 75 kW for compressions, which will be drawn from diesel engine.
Energy Sources	From diesel engine.
BIODIVERSITY	
Presence of any endangered species or red listed category	No
Loss of native species and genetic diversity	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	
SOCIAL ASPECTS			
Proximity to nearest habitation		113m, SW	
CSR components suggested			
Sl. No.	Description	Approx. Amount proposed	Remarks
1.	Development of school	Recurring = Rs. 0.15 lakhs Non-recurring = Rs. 7.65 lakhs	A detailed study on social status of the project site surroundings & need base study on proposed CSR activities were carried out. The summary of the report is provided.
2.	Promotion of education	Recurring = Rs. 3.8 lakhs Non-recurring = Nil	
3.	Promotion of social justice	Recurring = Rs. 4.40 lakhs Non-recurring = Rs. 2.75 lakhs	
Total		Recurring = Rs. 8.35 lakhs Non-recurring = Rs. 10.40 lakhs	
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 2,200 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	
ADDITIONAL CLARIFICATIONS			
Details of Authorised Signatory		M/s Ananthapuri Blue Metals (Dilly Sukhy)	
Details of NABET approved EIA consultant organization		M/s Environmental Engineers & Consultants Pvt. Ltd. (at Sr. No. 54 as per MoEF & CC list of Accredited Consultant Organization) Head Office: - A1-198, Janak Puri, New Delhi.	

2. The case was first considered in the 47th meeting of SEAC and appraised the proposal after power point presentation and discussions and deferred the item for field visit by subcommittee concerned.

Field visit to the quarry was carried out on 22.10.2015 by the sub-committee of SEAC, comprising Prof. Oommen V. Oommen and Sri. John Mathai. The Proponent with his representatives was present at the site at the time of site visit. Report was as under;

‘The project is an active quarry located at about 3.52 km southeast of Chithara near Moonnumukku. This quarry lease area of 2.2541 ha falling partly in own land and partly in government land occupy the elevated part of gently undulating area. The elevation of the lease area ranges from 205m in the north central part to 185 m in the depressed pit in the south. The rock type is a mixture of Augen Gneiss and Charnockite in the northern half while in the south it is Charnockite. The gneissic banding is wavy and the rock well jointed but faults are not observed in the site. Since the quarry is mostly developed, overburden and top soil are negligible limited to the northern part. The removed OB from the existing quarry is stocked at convenient places based on the place of excavation. The entire rain falling in the quarry area is collected in the pit on the lower southern part from where it is pumped into recharge pits further east of the quarry. RWH structures are not seen except for this quarry pit. Prominent streams are not in the vicinity as this hillock is located in the water divide region of Vamanapuram and Ithikkara river basins. Rubber is the dominant land-use. Floral and faunal biodiversity is not observed as the area is considerably disturbed. Dwelling units are not seen in the immediate vicinity of 100m but one building used to house rubber sheet related activity (sheet rolling and smoke house) is seen to the north. Canteen facilities are provided to the workers.

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. Over burden should be stored in the designated places and provided with protective support walls.
3. Ultimate depth of mine which will depend on the possible benches of 5m width and 5m height in the lease area as no prominent streams are seen in the vicinity.

4. A declaration to be produced stating that the building on the northern side is not a dwelling unit and is used for rubber sheet related activity.
5. 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, etc.'

3. The 49th meeting of SEAC held on 7-8 Dec. 2015 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 for issuance of Environmental Clearance for mining with following specific conditions, in addition to the general conditions stipulated for mining projects.

1. Fencing should be provided all around the lease area.
2. Over burden should be stored in the designated places and provided with protective support walls.
3. Ultimate depth of mine which will depend on the possible benches of 5m width and 5m height in the lease area as no prominent streams are seen in the vicinity.
4. A declaration to be produced stating that the building on the northern side is not a dwelling unit and is used for rubber sheet related activity.
5. The building in the northern side shall not be used for residential purpose.

4. 48th meeting of SEIAA held on 23-01-2016 considered the recommendations and decided to issue E.C. subject to the above conditions in para 3. State Environmental Impact Assessment Authority, Kerala hereby accord environmental clearance for the quarry project owned by Sri. Dilly Sukhy, Managing Partner, M/s Ananthapuri Blue Metals, Moonnumukku P.O., Chithara, Kottarakara, Kollam District, Kerala-695609 in Survey Nos. 111/8-2, 113/1-2, 113/1-3, 112/5, 114/1, 114/2, 114/7, 113/1, of Chithara Village & Panchayat, Kottarakara Taluk, Kollam District, Kerala under the EIA notification 2006, subject to the above specific conditions and general conditions stipulated for mining projects appended hereto.

5. 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 4.3.4 to 4.3.10, including mining features and progressive mine closure plan 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.

6. 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.

7. 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.

8. The given address for correspondence with the authorised signatory of the project is Sri. Dilly Sukhy, Managing Partner, M/s Ananthapuri Blue Metals, Moonnumukku P.O., Chithara, Kottarakara, Kollam -695609.

Sd/-
P. MARA PANDIYAN, I.A.S.
Member Secretary, SEIAA
&
Addl. Chief Secretary
Environment & Forests Department
Government of Kerala.

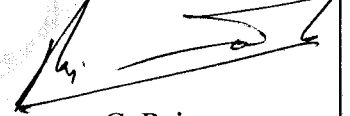
To,

Sri. Dilly Sukhy,
Managing Partner,
M/s Ananthapuri Blue Metals,
Moonnumukku P.O., Chithara,
Kottarakara, Kollam - 695609.

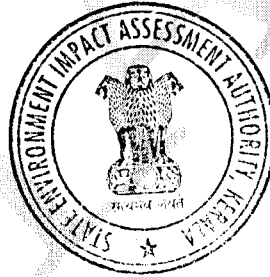
Copy to:

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, Kollam
4. Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm-24
5. Director, Mining & Geology, Thiruvananthapuram - 4.
6. The Secretary, Chithara Grama Panchayat, Chithara P.O., Kollam - 691559
7. Chairman, SEIAA, Kerala
8. Website
9. ✓ S/f, O/c

Forwarded/ By Order



G. Rajeev,
Administrator.



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.
- (xxxix) 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 on consent given by any other authority for the same project.

Forwarded/ By order

G. RAJEEV
Administrator

Administrator,
SEIAA.

State Environment Impact Assessment Authority
P.O. Kottayam, Pattalam

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