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(Freson Prof. (B.) N.C. Floy, Chadiman, Dr.) Subhashire i Momber. Dr. Nivedial Secretary St.A. distance! Chief Secretary to Government (Eliminament Department Sullo: SELAA, Basla Quary projectof M/2 Mathalikus modiçorry, Mathalikus P.O. Pathiko de-673604 Environmental Clearance-Accorded

Emvironmental Clear and

Date, 10, 112, 114

No. 212/SEIA_A/EL/251/2014

Dated 05-12-2014

Ref. 1. Application dated 16.012014 from Mr. Thankshan M.S., Mathalikumel, Koombara Bazar P.O.Kozakode – 673604

- 2. Minutes of the 25^{th} meeting of SEAC held on 14/15-02-2014
- 3. Minutes of the 32rd meeting of SEAC held on 12/23-08-2014
- 4. Minutes of the 34th Meeting of SEIAA held on 31-10-2014

ORDER

Mr. Thankachan M.S. Owner, M/S Mathalikunnel Quarry, Mathalikunnel, Koombara Bazar P.O.Kozhikode District, vide his application received on 16.01.2014, has sought Environmental Clearance under EIA Notification, 2006 for the building stone quarry project in Survey Nos. Sy. No. 2442 p at Koodaranhi Village, Kozhikode Taluk, Kozhikode District, Kerala for an area of 4.6963 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 0.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 0.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.

Name of project		Quarry Project of M/s Mathalikunnel Quarry
Brief description of the project		Open cast mining
Category/Subcategory & Schedule		"B" Category, 1(a)
Location Sy no/district, Taluk/village tc.		Sy. No. 2442 p at Koodaranhi Village, Kozhikode Taluk, Kozhikode District, Kerala
GPS CO	0-Ordinates	Longitude: 76°04' 40.53" E to 76°04' 52.89" E
		Latitude: 11 16 41 57 N to 11 2 18 415 CN
	Extent of a rea (in hectares)	4.0903 hectares
scts	Minimum and maximum height of excavation (MSL)	Highest 165 and Lowest 50 MSL.
Ğ	Life of mine proposed	8 years
ing p	Ultimate depth of mining (in MSL)	50 m above MSL
for Mining projects	Distance from the adjacent quarry	3 km from quarry towards E
7	Capacity of production	4,06,000 tonnes per year (max
Ŀ	Details of Project Cost	Total: Rs 2.0 Crores
	CRZ recommendations	Not Applicable as no part or whole of the lease area falls
	Forest clea rances	Not Applicable as n part or whole of the lease area falls under fore st.

		ABO WHE PROM
	En viennental praneters	Nidgation Laures
		VATER
	Water requirement sources	Dometic consumption—Bore withcased within quary and Dust suppression: Well water and him water collected in the picture.
	RWH unit proposed	Two ponds are proposed, one form water harvesting cumili
		arresing pond and the for plantion and dust suppression The dimension of the pits are (30m/X20m/X5m) and (25m/X 15m/X4m)
	Facilities for liquid waste treatment	Liquid wastes from wilet and office will be treated in septicially and soak pit
	Impoundment, damming,	Yes, The surface most from the lease area will be suitably
	culverting, realignment or other	collected through channels and will be stored in storm water pond
	changes to the hydrology of watercourses or aquifers?	for futher utilization for wetting of mine area and surrounding area
	73. 14 L.	
	Does it have provisions for use of recycled water	The state of the s
		LAND
	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 Anayamkunnu towards SE which leads to mine at a distance of 3km from Anayamkunnu.
**	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	Overburden generated 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
·		
	A CONTRACTOR OF THE CONTRACTOR	Depth of the ore body 135.00 mis
	Top soil, overburden etc.	Topsoil — 34,913 tonnes
- Apple - 150 - 15		The total amount of topsoil is existing within the leasehold is calculated below: Length: 380.00 mts > Width 122.5 mt X Depth 0.5 mts X Bunk density 1.5 = 34,913 tommes.
	A 5- quality	AIR
	Air quality meeting requirements	Yes
	Noise level meeting requirements	Yes
	Likely emissions affecting environment	Diesel engine en issions, Fusitive dust emission emissions from recovement of vehicles like dumpers, trucks, tankers etc. will also generate.
	Fire and year = 3	EN ERGY
	Energy reque irement	1 Nos. of DG. Sets.

		g./da ==-
	Errige Sevinance	As such two section provide recipitable quarry per sin, but
		power surph is require in officencen, and etc. win
	i	require about SCNW Deciser 1 Noswit a capacity of 7 EVA
	f	is installed for ever badap
		Quarry operators are study by FINE which areoperately ESD.
·		About 30 like/hr of EESD is required and ay.
		BIODIVERSTY .
	Presence of any enlangered	NA
	species or red listed category	. ,
	Loss of native species and genetic	As per the eplogical survey carrielout, there are varieties of
	diversity	native species of shrubs, tres etc. anthere will be some loss of
	<u>'</u>	species dire is minima, the true of the species of
		species due to mining activity. However, some of the mive
	<u> </u>	species will be planted at the end for corestoration.
	Proximity to nearest habitation	SOCIAL A SPECTS
	Troaming to rearest recongnon	110m
	CSR components suggested	Under CSR initiatives certain community welfare measures are being
		carried out and those will be continued.
		GENERAL.
	Does it propose environment	Yes, the Environmental Management Plan prepared and
İ	manasement plan	submitted to SEIAA. (Pages 50-73 of report)
	Does it have eco restoration	Post minima along plan
	programmes	Post mining closure plan is prepared and the same will be implemented.
: 1	Litigation/court cases, if any,	There are no litigations against the project as declared by the Project
	against the project (provide	Proponent Proponent
	details)	•
	Details of Authorised Signatory	Mr. Thankachan M.S.
ŀ		Owner
.		M/s Mathalikunnel Quarry
		Mathalikunnel, Koombara Bazar P.O.
		Kozhikode – 673604.
		Mob. No. 9745714264
		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Details of NADITY	Email: thankachan mathalikunnel@gmail.com
. [M/s Metamorphosis
	consultant organisation	#143, 2 nd Floor, 39 th Main
AND WELL		4th Cross, Behind Silk Board
		ETH Layout Suge
	The state of the s	Elengaluru-300068;
		Tel No. +918O 26783006;
		Email:mail@metamorphosis-india.com

The proposal was considered as a genda item no. 25.15 in the 25th SEAC meeting held on 14th and 15th February 2014. The Committee found that the earlier application submitted by the proponent for the same area was rejected and delisted for want of valid proof of ownership of land by the proponent. Hence it was decided to examine the land documents in detail. Further it was found that there is another working quarry on the northern slope adjacent to this quarry. The proponent stated that the same is owned by another person. However, the Committee wanted to ascert ain during site visit the number of working quarries surrounding the project site. The proponent was a loo directed to provide the detailed split up of the proposed CSR activities specifically unentioning the areas/institutions to which the same shall be extended, with documentary evidence of the already done. CSR activities.

Considering the shove, the tem vertherred form visit to as some during site with a number of verthing quarties surrounding the poper site and so directing the populations to provide the detailed split up if the populated CR activities pecifically mentioning the anglement to provide the area shall be extended, with documentary evidence of the already dur CSP, activities. On submission of the same, the proposal was placed in 32nd RAC meeting the Hall 12th and 13th August 2014 as agendated no. 32.15 for higher appairal. As paths decision taken the Committee a site visit was conduced by an expert term and the following points were recommended for consideration addition to the general conditions simulated formining projects:

- 1. Considering the steep slope and the presence of natural vegetation like bambo, a buffer distance of 50 m has to be left from the rody area with natural vegetation. This area is reported to be revenue land.
- 2. Peckets of thick overburden are seen in the ara. It must be stacked in designated place for future restoration purposes.
- 3. Steep cuttings are seen in the quarry on the NE side of the lease. Quarrying to be stopped immediately in this area and dermarcated with fences as danger zone.
- 4. The natural enhemeral stream through the lease area must flow unhindered.
- 5. There must be a mechanism to trap the silt in the stream by means of low level check dams or by any other structures.
- 6. The approach road to the site needs to be developed with hard surface. Water must be sprinkled to suppress dust.
- Quarry must have a definite working plan (not making haphazard pits).
 The project proposal was placed before the 34th meeting of SEIAA held on 24.10.2014

The Authority approved the proposal for issue of environmental clearance subject to the general and the above seven specific conditions as per the recommendations of SEAC. EC will be issued subject to the modified general conditions adopted in the joint meeting of SEIAA and SEAC held on 31.10.2014.

- 4. Environmental Clearance under EIA notification 2006 is accorded for the proposed quarry project of M/S mainaukunner Charry mainaukunner. Roombara bazar PU. K öznikode 6/3604 år Survey no 2442 p of Koodaranhi Village, Kozhikode Taluk, Kozhikode District subject to all the mining features, Environmental Management Plans (Pages 50-73 of report) as undertaken in the EMP submitted to SEIAA which will form part of this proceedings as if incorporated herein, and the following specific conditions, and the general conditions on mining of minor minerals appended hereto:
- 1. Considering the steep slope and the presence of natural vegetation like bamboo, a buffer distance of 50 m has to be left from the tooky area with matural vegetation. This area is reported to be revenue I and.
- 2. Pockets of thick overburden are seen in the area. It must be stacked in designated place for future restoraction purposes.
- 3. Steep cuttings are seen in the quarry on the I IE side of the lease. Quarrying two be stopped in mediately in this area and demarcated with fences as darager zone.

- 4. The noting opening the statement between the lease area and fow unincred.
- 5. The met betamethanismo trapp the sit in the sum by men of lower checks dans to by an yeller structures.
- 5. The approach row to the sienceds to be developed with hard anace. We must be opinized to suppress dust.
- 7. Quarry must have a definite working plu (not making huhazard ph).
 - 5. Validity of this Environmental clearance will be 5 years provided and it will be subject to review a any stage earlier, if any of the coundtions is the E.C. is violated or not duly complied with.
 - I. Compliance of the conditions herein will be monitored by the Directonic of Environment and Climate Change or its agencies and also by the Regional office of the Ministry of Environment and Forests, Govt. of India, Bangalote.
 - 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.

For Member Secretary(SEIAA)

To

Mr. Thankachan M.S., M/s Mathalikunnel Quarry Mathalikunnel, Koombara Bazar P.O. Kozhikode – 673604. Mob. No. 9745714264

Email: thankachan.mathalikunnel@gmail.com



Copy to:

- MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034
- 2: The Addl. Chief Secretary to Covernment, Environment Bept., Government of Kerala
- 3. The District Collector, Kozhikode
- 4 --- The Director Dept of Invisenment and Climate Change Control Kenda Trans
- 5. The Director, Mining and Geology Department, Government of Kerala
- 6. The Secretary, Koodaranhi Grama Panchayath, Koodaranhi (P.O), Kozhikode-673604
- 7. Chairman SEIAA Kerala
- 8. Website
- Stock file
- 10. 0/c

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GRNEEAL CODITIONS (a mining priect)

- (i) Rain Wass Harvesting facility should be installed as probe prevailing provision of EMBR / KIPBF, unless otherwise specified.
- (ii) Environment Montoring Cell's agreed under the afficiant filed by the proponent shall be formed and made functional.
- (iii) Suitable avenue tres should be planted along either side of the tarred road and open puting are as, if any, including of approach road and internal made.
- (iv) Maximum possible solar emergy 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 orgain 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 songe areas and the remaining area should be reclaimed with stacked dumpings and overburdes and planel 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 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) 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 CPCD/KSPCD.
- (xxii) The workers on the site should be provided with the required protective equipment such as ear muffs, helmel, 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 wh ite 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 meanest dwelling unit or other structures, not being any facility for minimg shall be provided
- (xxix) 200 m buffer distance should be maintained from forest boundaries.
- (XXX) Consent from Kerzala 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

- our statementais including bufor bloing advarage imposives.
- (7) in lathe resentancy charge(s) in he scope of the paject, three might would depic a fresh appraisal paint such out it).
- (20111) The Autimity reserve the right to add addition addition additional segment of the Environment clearne under the positions of the Environment (Protection) Act. 1955, to ensure effective implementation of the suggested segment measures in the bound addatisfactory manner.
- (Exxiv) The stipulations by Statutory Authorities under different Astand Notificians should be complished, including the provisions of Water (Prevention and Control of Pollution) AC 1574, the Air (Prevention and Control of Pollution) at 1981, the Environment (Prection) At 1986, the Public Liability (Insurant) Act, 1991 and EIA Notification, 2006.
- The project proponent should advertise in at least two local respapers widely inculated in the regione of which (both the advertisement and the newspaper) shall be in the vernacular language informing but the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Sovt. of Keala 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.
- A copy of the clearance letter shall be sent by the proposent 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. 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

Member Secretary, SEIAA Kerala

