

# Proceedings of the State Environment Impact Assessment Authority Kerala

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

Sub: Environmental Clearance -Application for environmental clearance for the quarry project in Sy. No. 71/1-2, 71/1-3, 75/2-2 at Ayyampuzha village, Aluva Taluk, Ernakulam District, Kerala by Sri. P. S. R. Koteswara Rao – General Manager M/s Soma Enterprise Limited- E.C- Granted

## STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No.774/EC3/697/2015/SEIAA

dated, Thiruvananthapuram19-10-2015

- Read:- 1. Application dated nil from Sri. P. S. R. Koteswara Rao, General Manager, Soma Enterprise Limited, Godown Road, Cheranalloor, Kochi- 682034.
  - 2. Judgment dated 5-8-2015 of the Hon. High court of Kerala in W.P. No s 21524 and 22920 /2015.
  - 3. Minutes of the 46<sup>th</sup> meeting of SEAC held on 29/30-9-2015.
  - 4. Minutes of the 42<sup>nd</sup> meeting of SEIAA held on 1-10-2015.

#### **ENVIRONMENTAL CLEARANCE NO. 82/2015**

Sri. P. S. R. Koteswara Rao, General Manager, Soma Enterprise Limited, Godown Road, Cheranalloor, Ernakulam District vide his application received on 02.03.2015, sought Environmental Clearance under EIA Notification, 2006 for their building stone quarry in an area of 0.7327 Ha in Sy. No. 71/1-2, 71/1-3, 75/2-2 at Ayyampuzha Village, Aluva Taluk, Ernakulam District. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares. 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.

### **DETAILS OF THE PROJECT**

1.	Category/Sub category & Schedule	Category B2, I(a),i	
2.	Whether the project site falls within ESZ-1 of WGEEP report or ESA of HLWG	No	
3.	GPS readings in WGS 84 datum	Latitude 10°14'13.0"N 10°14'12.7"N 10°14'10.1"N	Longitude 76°28'51.1"E 76°28'53.2" E 76°28'47.5"E

		10°14'09.5"N 76°28'51.2"E
4.	Distance of the mining area from the nearest human settlement	>1.3 km
5.	Right & nature of ownership of land	Own land
6.	Is the property forest land/govt. land/own land	Own land
7.	Extent of land in hectares	0.7327 ha
8.	Proposed production capacity	7762 m <sup>3</sup> / yr
9.	Ultimate depth of mining (in MSL)	20 m
10.	Quantity of topsoil estimated to be removed	NA
11.	Method of mining	Mechanized Open cast
12.	Underground mining if any proposed	No
13.	a) Accreditation with serial number of QCI / NABET	NABET/EIA/1316/RA001
14.	Proposals for Corporate Social responsibility	Provided (c.f.pg. no. 81)
15.	Total cost of the project with details	71.55 lac
16.	Soft copy of the proposal (in PDF format)	Yes
17.	Details of Authorized Signatory	Sri. P. S. R. Koteswara Rao, General Manager, Soma Enterprise Limited, Godown Road, Cheranalloor, Cochin – 682 034.
18.	Details of NABET approved EIA consultant organization	ABC Techno Labs, No.2, 2 <sup>nd</sup> street, Thangam colony, Anna nagar West, Chennai- 600 040 Ph: +91 -422 -2453737

Environmental Management Plan

Land Environment				
Mine management	Undertakings by project proponent			
	In order to minimize the adverse effects, the following mitigation			
	measures will be adopted:			
	☐ Construction of check dams and collecting channel all around the			
Land use change	foot of the hill to prevent soil erosion during the			
Land use change	monsoon season and also to collect the storm water for various use			
	within the mine area			
	☐ Green belt development along the boundary of area			
	☐ The pit area will be used as a water storage and also as			
	ground water recharge pit and can be utilized for domestic or			
Land use change	industrial use with proper treatment			
Land use change	☐ Proper barricading and monitoring of the water stored area will be			
	taken up to prevent accidents.			

	Water Environment				
	☐ The storm water will be used for dust suppression and green belt development etc				
	☐ At the end of mining the void or unreclaimed area at the lower				
Domestic waste water	elevations of the pit will be utilized for water storage /ground water				
Bonnestre waste water	recharge. This water can be utilized for industrial/				
	domestic/agricultural purpose after necessary treatment Domestic				
	sewage to a tune of 0.75 KLD generated from the mine office will be				
	delivered to the septic tank followed by soak pit.				
	☐ Laying of haul roads as per the standards, black topping of				
	permanent haul roads and service roads to avoid or eliminate air –				
	borne dust				
	☐ To avoid the dust generation from the drilling operations, wet drilling operations will be adopted				
	☐ Drill machines will be equipped with dust collectors				
	☐ Use of appropriate explosives for blasting and avoiding over				
	changing of blast holes				
	☐ Controlled blasting techniques will be adopted				
	☐ Watering of haul roads and other roads at regular intervals				
Excavation, loading,	☐ Provision of dust filters /mask to workers working at highly dust				
transportation	prone and affected areas				
	☐ Provision of green belt all along the periphery of the mine area				
	☐ Periodical monitoring of ambient air quality in and around the mine				
	area. The extracted mineral will be conveyed to the crusher unit within				
	the quarry and transported to the end user by adopting following				
	measures so as to minimize dust emissions.				
	☐ In case of the long distance transportation, the trucks after				
	loading will be covered with tarpaulin sheets				
	☐ Speed of the vehicles will be maintained within the prescribed limits				
	☐ Truck will not be over loaded and will be maintained to the body level				
The sources of noise	The major noise generating source from the proposed activity is				
contributing to	working machinery, drilling, blasting and flying of vehicles.				
environment in this	The following preventive measures will be taken to bring down the				
mine and surrounding	noise level				
area are mainly due to	☐ Proper maintenance of machinery and equipments and also improved				
drilling, blasting,	design on machines				
loading and unloading	☐ Use of personnel protective devices i.e. earmuffs and earplugs by workers working in high noise areas				
of mineral and	☐ Creation of wild green belts of dense foliage between mine areas and				
movement of trucks.	residential colonies				

The sources of noise		
contributing to	☐ It is proposed that the proposed mine operates only ten hours a day	
environment in this	☐ Conducting periodical medical check up for any noise related health	
mine and surrounding	problems	
area are mainly due to	☐ Proper training to personnel to create about adverse noise level	
drilling, blasting,	effects	
loading and unloading	☐ Planned noise monitoring at suitable locations in plant and outside	
of mineral and	locations for proper effective remedial actions.	
movement of trucks.		
	Socio-Economic	
	Measures to improve the socio economic conditions of the area:	
	☐ Local people (15) will be employed on priority basis as per	
	their skills	
,	☐ Direct and indirect development of the society	
Employment	☐ As a part of corporate social responsibility, it is proposed to	
Employment	spend Rs. 2.0 Lakhs/annum for various local development	
generation	activities like conducting medical checkups for the local people, road	
	development, improvisation or development of temples, providing	
	scholar ships for the back ward and girl students, physically	
	handicapped etc.	
	☐ Medical facilities to the workers employed at site	

- 2. Approved mining plan has been submitted. The applicant filed W.P. No. 22920/15 to direct SEIAA to grant EC forthwith, they being the contractor of the Kochi Metro Rail project and the time lines on competition of works are affected due to non- availability of metal. The case was disposed of on 05.08.2015 holding that even though the quarrying is for a public purpose it requires EC and that the petition being engaged in the work of a prestigious public project, it is only proper that the EIA authority expedite the process and finalize the consideration at any rate within one month from the date of receipt of copy of the judgment.
- 3. The case was placed in the 46<sup>th</sup> meeting of SEAC held on 29/30-9-2015. The committee recommended the case for grant of E.C subject to the usual conditions. The case was considered by SEIAA in its 42<sup>nd</sup> meeting held on 1-10-2015. 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 Soma Enterprise Limited, Godown Road, Cheranalloor, Kochi- 682034.in Sy. No. 71/1-2, 71/1-3, 75/2-2 at Ayyampuzha village, 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:

# CTATE 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 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 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

200 m buffer distance should be maintained from forest boundaries.

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

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.

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

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.

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.

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.

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.

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.

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.

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.

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

Directorate of Environment Thiruvananthapuram-695 024

KERALA

JIROMA

Member Secretary, SEIAA Kerala