

# Proceedings of the State Environment Impact Assessment Authority Kerala

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

Sub: SEIAA- Environmental Clearance for the proposed stone quarry project in Survey No. 172 at Kodiyathoor Village, Kodiyathoor Panchayat, Kozhikode Taluk, Kozhikode District, Kerala by Sri. Binu K. Mathew, Managing Director M/s Poabs Rock Products Pvt. Ltd.- Granted – Orders issued.

# STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA

#### No. 1074/EC4/2016/SEIAA

## Dated,Thiruyananthapuram 17,03,2018

Ref: 1. Application received on 02.11.2016 from Sri Binu K. Mathew, Managing Director M/s Poabs Rock Products Pyt. Ltd

- 2. Minutes of the 70<sup>th</sup> meeting of SEAC held on 04<sup>th</sup> & 05<sup>th</sup> April 2017
- 3. Minutes of the 79th meeting of SEAC held on 25th & 26th September, 2017.
- 4. Minutes of the 75th meeting of SEIAA held on 28th October 2017.
- 5. Minutes of the 81st meeting of SEIAA held on 08th March 2018.
- 6. Affidavit received on 16.03.2018 from Sri.Binu K. Mathew, Managing Director M/s Poabs Rock Products Pvt. Ltd

# ENVIRONMENTAL CLEARANCE NO.51/2018

Sri.Binu K. Mathew, Managing Director M/s Poabs Rock Products Pvt. Ltd., Poabs Group, Kuttoor P.O., Thiruvalla, Kerala-689106., vide his application received on 02.11.2016 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Survey No. 172 at Kodiyathoor Village, Kodiyathoor Panchayat, Kozhikkode Taluk & Kozhikkode District, Kerala for an area of 17.0334 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 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per

Notification No.S.O.141 (E) dt.15.01.2016 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

# Details of the project as furnished by the applicant are as follows;

#### BASIC INFORMATION OF QUARRY

# (To be filled in by the Project Proponent) PART A

	PROJECT DETAILS
File No.	1074 / EC4 / 2016 / SEIAA
Name /Title of the	Masonry Stone Mine ( Quarry ) project of M/s POABS Rock
project	Products Pvt. Ltd.
Name and address of project proponent.	Mr. Binu K. Mathew, Managing Director M/s Poabs Rock Products Pvt. Ltd. Kuttoor P.O., Thiruvalla, Kerala-689106. Ph. 0469-2743300 Fax. 0469-2743330 E-mail :- mail@poabs.com & kzkd@poabs.in
Owner of the land	Private own land
Survey No. District/Taluk/ and Village etc.	Survey No. 172 of Kodiyathoor Village, Kozhikode Taluk & District, Kerala in an area of 17.0334 hectares
Category/Sub Category and Schedule	Gategory : B / B2 Schedule : 1 (a)
Details of period of lease or permit with number including the beginning and expiry date of lease/permit period (Copy to be attached)	Part of the area (4.8240 ha) under consideration is already accorded with Environment Clearance with production capacity 2,90,000 MTA on 23.08.2013 and present proposal is expansion of the earlier E.C. accorded area.  The quarry is in operation with quarrying leases issued for area 5.7584 ha (P.O. No. 124/2008-09/4694/M3/2006 and Valid up to April, 2021) + 4.8380 ha (P.O. No. 278/2011-12/2640/M3/2011 and Valid up to August, 2021) & for area 6.437 ha (P.O. No. 763/2005-06/2317/M3/06 and Valid up to June, 2018) for cumulative area 17.0334 ha & production capacity of 1,60,000 MTA.  Working quarry
Present Status of the project	
Date & Year of starting the work of the quarry project.	
Whether the quarry is working at present or not?	Working quarry
If stopped working since when?	Not applicable

Date of submission of	12/02/2016			
Application				
	The building Stone Quarry (Minor Mineral) mining project of M/s			
	Poabs Rock Products Pvt. Ltd. is situated at Survey No. 172 of			
	Kodiyathoor Village, Kozhikode Taluk & District, Kerala in an area			
Brief description of	of 17.0334 hectares.			
the project.	The land for the proposed quarry is a private owned land and the land			
	is possessed in the name of M/s Poabs Rock Products Pvt. Ltd. The			
	targeted production of mine will be 5,10,000 MTA. The estimated			
	project cost will be Rs. 20 Crores. The expected life of mine estimated			
	will be about 15 years. The mining operation will be carried out by			
	opencast semi-mechanized method as per the approved Mining Plan.			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Latitude (N) = 11°17'11.01"N to 11°17'24.88"N			
GPS Co-ordinate	Longitude(E) = 76° 01'33.03"E to 76°01'58.40"E			
Details of Authorized	Mr. Binu K. Mathew, Managing Director			
Signatory and address	M/s Poabs Rock Products Pvt. Ltd.			
for correspondence	Kuttoor P.O., Thiruvalla, Kerala-689106.			
	Ph. 0469-2743300 Fax, 0469-2743330			
	E-mail:- mail@poabs.com &kzkd@poabs.in			
The Broom Control	LAND DETAILS			
Extent of area in	17.0334 hectares			
hectares				
Is the property forest	Private own land			
land/Govt. land/own				
land/patta land				
	It is estimated that around 87,267 cu. m. of top soil will be generated			
	from the proposed project site, which will be properly stacked and			
Quantity of top	will be utilized for eco-restoration over the reclaimed areas in the post			
soil/over burden	mine closure phase. Also it is estimated that around 34,000 cu. m. of			
produced and managed	over burden is generated which will be utilized in developing internal			
	roads and at the end use the same will be used as soil base for			
	reclamation.			
т				
Latitude and	Latitude (N) 11°17'11.01"N to 11°17'24.88"N			
Longitude	Longitude (E) 76° 01'33.03"E to 76°01'58.40"E			
	Part of the proposed land is existing quarry area and there is no			
	vegetation in that area. The remaining land in the proposed land is			
	mostly covered with native trees, shrubs, herbs, grass, climbers,			
Topography of land	bushes etc. The topography of the lease area is hilly terrain. The			
and elevation	highest elevation of the lease area is 355 m MSL and lowest is 200m			
	MSL. As the proposed area is hill rock, the drainage of lease area is			
	towards North to South. No habitants are located in the lease area.			
Slope analysis	The drainage of lease area is towards North to South.			
Will there be any	The dramage of lease area is towards north to South.			
significant land	Due care will be taken to provide channel all around the foot of hill to			
disturbance resulting	collect run off and also to avoid soil erosion.			
in soil erosion,	There is no danger of flood or inundation as the proposed working is			
subsidence & natural	above the normal ground level. The area is not susceptible to flood.			
ocoside no contrata				

1	<u> Particological de la companya del companya de la companya del companya de la co</u>
drainage.	
Access road to the site	Ten wide town I 1
width and condition	7m wide tarred road.
Will there be any	No, the land used will be fully reclaimed and rehabilitated by
adverse impact on the	backfilling the pits with plantation and pond. Plantation and
aesthetics of the	afforestation will add to the improvement in environment and
proposal site	aesthetic beauty of the area.
	MINING DETAILS
Minimum and	
Maximum height of	in conceptual phase.
excavation.	
Life of mine proposed.	About 15 years
Underground mining if	
any proposed	No underground mining proposed.
Method of Mining	The working will be carried out by opencast semi-mechanized method
	as per the approved Mining Plan
Distance from the	
adjacent quarry	in operation within 500m radius of the proposed quarry.
Cluster condition if	
any	No cluster condition
Has "No cluster	Cluster Certificate issued by Department of Mining and Geology,
certificate" submitted?	Govt of Kerala is already submitted with E.C. application.
Distance from nearby	There is no human habitation within 500m radius of the proposed
habitation	quarry.
Distance from nearby	Vellarimala Forest, 14 km, NE
forest, if applicable	
Distance	None within the study area
protected area,	
Wildlife Sanctuary,	
National Park etc.	
Distance from nearby	Chaliyar River, 8 km, SW
streams/rivers/National	EravanjiPuzha, 7 km, W
Highway and Roads	Cherupuzha, 5 km, SE
Is ESA applicable? If	
so distance from ESA	Not in ESA
limit	
Has approved mining	Ves the approved mining plan proposed by DOD :1
plan, prepared by RQP	Yes, the approved mining plan prepared by RQP is already submitted along with E.C. Application.
submitted?	
Capacity of production	\$,10,000 MTA
in TPA	7. W. S.
	The mining will be done by open cast semi-mechanized method of
Details of mining	mining. The bench height and width will be maintained 5m.
process	Excavated material is transported to the crusher unit existing within
- 121 #121	the complex for further processing. The exploitation of mineral will
	be done from 355 m to 200m MSL in conceptual phase.
Your Side of the Manager of the Mana	DETAILS OF PROJECT COST
Land cost	Rs. 10 Crores (All inclusive)
6.1	$\cdot$

101	
Plant and Machinery	Rs. 10 Crores (All inclusive)
Total Cost	Rs. 20 Crores ( All inclusive )
Financial Statement	Rs. 20 Crores (All inclusive)
including funding	Insurance = Insurance to the grant
source and details of	would provide through insurance company.
insurance etc.	Funding = Own source & bank loan
1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Air Pollution   Mining activities will generate certain quantities of
	dust during drilling, blasting, loading and
	transportation operations. The following measures
	will be taken to mitigate the fugitive dust from
[ N	different operations.
4.4	Laying of haul road as per the standards, black
	topping of permanent haul road and service road to
	avoid or eliminate air – borne dust.
	To avoid the dust generation from the drilling
	operations, wet drilling method will be adopted.
	Drill machines will be equipped with dust
· .	collectors.
	Use of appropriate explosives for blasting and
	avoiding overcharging of blast holes.
	Controlled blasting techniques will be adopted.
	Watering of haul road and other road at regular
	intervals.
	Provision of dust filters/ mask to workers working
	at highly dust prone and affected areas.
	Provision of green belt all along the periphery of
Environment	the lease area.
Management Plan	Periodical monitoring of ambient air quality in and
	around the lease area.
	The extracted mineral will be transported from
	the quarry to the end user by adopting following
	measures so as to minimize dust emissions.
	In case of long transportation the trucks after
	loading will be covered with tarpaulin sheets.
	Speed of the vehicles will be maintained within the
	prescribed limits.
	Trucks will not be over loaded and will be
	maintained to the body level
	Water Provision of storm water collection pond with an
	Pollution appropriate capacity. The water requirement for
	sprinkling on sources of dust emission, on roads
the second secon	landscaping etc. Can be met from the stored
	rainwater in the pond.
	Noise The major noise generating source from the
	proposed activity is working machinery, drilling,
	blasting and plying of vehicles. The following
	control measures are to be undertaken to bring
<u> </u>	down the noise levels:-
	Proper maintenance of machinery, equipments and

		improvement on design of machines.
		Use of personal protective devices i.e., earmuffs
		and earplugs by workers, who are working in high
		noise generating areas.
3/4		
		Creation of wide green belt of dense foliage
		between mine areas and residential colonies.
		Proper training to personnel to create awareness
		about adverse noise level effects.
		Planned noise monitoring at suitable locations in
		the plant and outside location for proper effective
		remedial actions.
	0.1.1 114-	
	Solid Waste	Topsoil Management
	Management	The topsoil excavated from the quarry will be
		dumped / stacked separately at pre-determined
• • • •		place and subsequently will be utilized in spreading
		over reclaimed areas for plantation as part of eco-
		restoration. Precautions will be taken to limit the
	[ ]	height of the topsoil dump / stacked to 5 to 6
		meters in order to preserve its fertility and shelf
		life. It will be suitably protected from soil erosion
1	8	and infertility by planting fodder grass and
+		Fraggassa
		leguminous plants during temporary storage.
		Overburden Management
	<sub>82</sub> .	This waste will be utilized within the pit for lying
1		of haul roads At the end use, OB can be reutilized
		as soil base for plantation.
	Eco	The year wise programme of eco-restoration for the
	restoration	life of mine will be made and about 12,800 trees
	restoration	1 5-8/5/
	1	will be planted in an area of 12.8490 ha.
Whether Environment	Yes.	
Management Plan or	[ 1988 A	
Eco restoration Plan		
satisfactory?		8
Does it suggest	Detailed Envir	onment Management Plan is already submitted with
mitigation	E.C. Application	
measures for		777.11
		Y <sup>ar</sup> .
each activity	\$ 11 1 D =	Title Day (DED) to day day day day D. C.
Is Pre-Feasibility	1 .	easibility Report (PFR) is already submitted with E.C.
Report (PFR)	Application.	Taki
satisfactory	4	A Sur
Does it need public	Not Applicable	
hearing	1	15-642   25 
Details of litigation	No litigation pe	endino
	Tro migation po	ALL MARIES
and Court verdict if	1/2	- <del>17 - 19</del> - 27 - 19
any	1.5	
Details of public	None	
complaint, if any	19	
Details of statutory	The following	Govt. Orders / Policies are to be followed:-
sanction required		m Kerala State Pollution Control Board.
banonon required	- Combonio II	and a particular of the state o

The second second	Permission from Mining & Geology Department.			
1. 以各海蓝	Permission from Explosive Department.			
	> Permission from Panchayat Office.			
If CRZ	Not Applicable			
recommendation	de la principal de la companya de la			
applicable?				
	DADE D			
ENVIRONME	PART B			
	NT IMPACT ASSESSMENT AND MITIGATION MEASURES			
Details of water	The total water requirement is about 17 KLD in which 2 KLD is for			
requirement per day i	Would be solliced from open wall 12 IV IN C 1			
KLD				
	for plantation will be sourced from storm water pond.			
	2 KI Dia faut			
Water source/sources.	2 KLD is for domestic needs which would be sourced from open well,			
standardo Bodices.	1 D NLD 10f dust suppression system in mine as well as a series			
Expected water use pe	1 444 4 NLD 107 Diamianon will be consort for 2000 and 100 and			
day in KLD.	r 17 KLD			
Details of wate				
requirements and C				
requirements met from	and 2 KLD for plantation will be sourced from storm water pond.			
water harvesting.				
What are the impact of				
the proposal on the	project.			
ground water?				
How much of the				
water requirement can				
be met from the				
recycling of treated				
waste water?				
(Facilities for liquid				
waste treatment)				
What is the	The sewage to a tune of 1.60 KLD generated from the mine office			
incremental pollution	will be diverted to the septic tank followed by soak pit.			
load from waste water	\$3 <sub>6</sub>			
generated from the				
proposed activities?	Establish Commencer of the Commencer of			
	Storm water drains with silt traps will be suitably constructed all			
	along the periphery of the pit area to collect the run-off from the			
	lease area and divert into the storm water pond/tanks proposed			
	within the complex:			
How is the storm water	All measures will be taken not to disturb the existing drainage			
from within the site	pattern adjacent to the other property			
managed?	De-siltation traps and storm water collection pond proposed for silt			
;.	- Temovai.			
Ċ	The storm water collected from the lease area will be utilized for			
<u> </u>	dust suppression on haul roads, plantation within the premises etc.			
IMPACT ON BIO	DDIVERSITY AND ECO RESTORATION PROGRAMMES			
Will the project	Due to the mining activities, there will be loss of some native species			
	the state of the s			

involve extensive	and vegetation. However, some of these species will be planted at the
clearing or	end as eco-restoration.
modification of	
vegetation (Provide	
details)	
	The year wise programme of eco-restoration for the life of mine will
111	be made and 12,800 trees will be planted in an area of 12.8490 ha.
What ate the measures	Ecological restoration for the mined area by plantation of the species
proposed to minimize	as nor the time schedule suggested below.
the likely impact on	First Six months - Herbs & grass
vegetation (details of	Next Six months Shrubs
proposal for tree	Next Six months onwards Trees
plantation/	Selection of species are based on High Dust Capturing, Soil Holding
landscaping)	Capacity, ground water recharge capacity etc. More focus is given for
	medicinal plants.
Is there any	medicinal plants.
displacement of fauna	Not applicable
- both terrestrial and	1 two applicable
aquatic. – If so what	The state of the s
are the mitigation	No andangered energies found \$500
measures?	No endangered species found at site
]	
endangered species or	
red listed category (in detail)	
detairy	IMPACT ON AIR ENVIRONMENT
What are the	
100000000000000000000000000000000000000	Details already provided at EMP section above.
mitigation measures on	
generation of dust.	
smoke and air quality	
	Designated space will be provided for parking of truck / tipper within
Details of internal	the site. For the purposes of mining activities, existing roads are
traffic management of	sufficient However, haul road will be suitably developed within the
the site.	proposed area. Speed of the vehicles will be maintained within the
	prescribed limits (Speed Governor fitted).
D + '1 C ' C	
Details of noise from	
	Details already provided at EMP section above.
vibrator and mitigation	
measures	
Impact of DG sets and	
other equipments on	[2] [4] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
noise and vibration	sampling reports were already submitted with EC Application.
and ambient air quality	
around the project site	
and mitigation	<u>                                     </u>
measures	
Air quality monitoring	Details provided at EMP section above and air, noise and water
in detail	sampling reports were already submitted with EC Application.

10 May 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ENERGY CONSERVATION				
Details of power		The total power requirement will be 75 kW, which will be drawn			
requirement and	from	from diesel engine. Fuel Quantity – 16 to 20 lt/ hr.			
source of supply.	117	111			
Details of renewable	Wew	vill promote renewable en	ergy resources.		
energy (non –	1				
conventional) used.		THE STATE OF A PARTY OF THE PARTY.			
Are there sufficient	<del> </del>	RISK MANAGEME	ENT		
measures proposed for risk hazards in case of	Detai	led Environment Manage	ement Plan is a	lready submitted with	
emergency such as	E.C. 2	Application.		. ·	
accident at the site?					
abordent at the Site!	Barbe	ed wire fencing will be do	na all aroundtha		
Are proposals for	Daroc	a who tenening will be dol	ne an around the	quarry sue:	
fencing around the	The st	tone quarry mine will resul	It in increase in A	Samenay of Mactina for	
quarry satisfactory?	minin	g the mineral. However, co	ntrolled blastings	with optimum charge of	
	holes	will be carried out to k	osen the rock	Explosion hazarde are	
Storage of	envisa	ged due to mishandling of	Sexplosives. Exp	losives will be handled	
explosives/hazardous	with u	tmost care in compliance o	f conditions impo	sed by Chief Controller	
substance in detail	of Exp	olosive &Metalliferous Min	es Regulation, 19	61.	
Facility for solid waste	Top so	oil and over burden generat	ed from the site v	vill be stored separately	
management	on ear	marked place and will be a	ised for eco-resto	ration and internal road	
	develo	pment.	icost d		
		OCIO ECONOMIC IM	PACTS		
Will the project cause	No				
adverse effects on					
local communities					
disturbance to sacred					
sites or other cultural	¥9.				
values. What are the					
safe guards proposed?		(/////////////////////////////////////			
result in any character	Will the proposal The mining project will directly / indirectly develop the area by				
to the demographic	result in any changes providing employment opportunities. With the proposed development				
to the demographic in and around the area there will be many supporting facilities/structure of local infrastructure eventually leading to the development of the area.					
population, If so	mmast	idetate eventuany leading	to the developm	ient of the area.	
# 1					
Manager San	Sl. No	Areas of Intervention	Recurring	Non Recurring	
	. E		Expenses (in Rs.)	Expenses (in Rs.)	
	N/T 1	Promotion of		12 00 000	
Details of CSR		education	1,70,000	12,80,000	
commitment	2		7.00.000	5 00 000	
	· . <del>*</del>	2 Environmental 7,00,000 5,00,000 sustainability			
	3	Development of	4 70 000	5.00.000	
A Company of the Comp	, ,	infrastructure	4,70,000	5,00,000	
10 14 2 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I:	mmasuucture			

	4	Health care	4,20,000	Nil	
•	}	Total	17,60,000	22,80,000	
What are the projects benefits in terms of employment potential?	Due to the mining activity and due to the attached ancillary unit, there will be workers attracted to the project area. It is proposed to employ 40 persons in the project.  PART C				
Details of NABET	M/s F	Invironmental Enginee	ers & Consultants Pvt.	Ltd.	
approved EIA	(NAB	ET Accredited Consul	tant Organization)		
Consultant engaged- Their name, address and accreditation details	Head Office: -A1-198, JanakPuri, New Delhi.  Branch Office: - C-306, Kanchanjunga Apartments, Palarivatton P.O., Kochi, Kerala				
	· c	HINTREADV AND CON	ICLUSION 🕸 💮 🐃	\$\$\$\$\$\$\$\$\.	
Overall justification for implementation of the project.	species to a maximum possible extent. Additionally, an area is earmarked outside the proposed mining area for compensatory mass plantation. Also, a storm water pond is proposed outside the mining area for storage of rain water and for its subsequent use so as to conserve fresh water consumption. Thus the proposed project is not likely to affect the environment or adjacent ecosystem				
Explanation of how	Detailed Pre-Feasibility Report (PFR) with Environment Management Plan (EMP) is already submitted with E.C. Application.				
adverse impact have been mitigated.	Fidil (EWI ) is aneady submitted				

2. The proposal was placed in the 70<sup>th</sup> meeting of SEAC held on 04<sup>th</sup> & 05<sup>th</sup> April 2017 and decided to defer the item for field inspection. Accordingly the site visit was conducted by the Sub Committee consisting of Shri S. Ajayakumar and Sri. John Mathai on 16.09.2017. The report is as follows;

Field visit to the Quarry project site of M/s Poabs Rock Products Pvt. Ltd. in Kodiyathur Village, Kozhikode Taluk, Kozhikode District was carried out on 16.09.2017 by the sub-committee of SEAC, Kerala, comprising Shri S. Ajayakumar and Sri. John Mathai. The Site Manager, Mining Engineer and other representatives were present at the site at the time of site visit.

This project is located at Mysore Kunnu about 2.5 km E of Nellikkaparamba. The quarry is approachable from Mukkam-Areakode road. The area for which EC has been applied covers an area of 17.0334 ha falling in three adjacent bits having lease with validity till 2018 and 2021. One bit is currently being quarried with EC issued in 2013. The proposed quarry zone falls entirely within a large tract of own land. The area falls in the upper elevated part of a NW-SE trending hill ridge reaching to an elevation of 350 m amsl. Boundary pillars of the quarry area are erected with fencing and numbered as given in the surface plan. The GPS coordinates of some of them were verified and found to be correct. The overall slope of the land is towards southwest. The rock type is weakly foliated charnockite. Rock is exposed in continuous sections such that OB is negligible. Benches have been provided in the developed sections. Storm water from the entire lease area is presently channelized into a rainwater harvesting pit in the central part. Additional water harvesting structure is provided in the saddle portion on the south eastern side of the proposed quarry area. Dominant landuse in the vicinity is rubber and mixed trees. Floral and faunal biodiversity is not observed as the area is mostly rocky and disturbed. Crusher unit and other facilities related to the functioning of the quarry are located on the lower side. The over burden from the quarry is stored in the lower slope in a designated part. Protective walls are provided. Trees and shrubs are planted on the periphery of the quarry lease area. Sign boards are provided at appropriate places. The approach road is wide and well maintained. Workers are provided with canteen and rest rooms. Two other quarries are seen within 500 m but the total area is less than 25 ha. Periodic compliance reports are submitted by the proponent for the working area granted with EC. Based on an overall evaluation of the site it can be recommended subject to the general conditions and revised CSR

- 3. The proposal was placed in the 79<sup>th</sup> meeting of SEAC held on 25<sup>th</sup>&26<sup>th</sup> September, 2017. Based on the Mining plan, Form 1, all other documents submitted with the proposal and the field visit report, the committee decided to **Recommend for issuance of EC** subject to general conditions in addition to the following specific condition.
  - If any rare, endemic and threatened plant species are noticed, they shall be properly protected insitu or transplanted to a suitable site inside the lease area

The proponent agreed to set apart Rs. 20 lakhs (non-recurring) and Rs.20 Lakh per annum (recurring) for CSR activities for the welfare of the local community in consultation with the local body.

4. The proposal was placed in the 75<sup>th</sup> meeting of SEIAA held on 28.10.2017. As the Project proponent has recorded that the quarry is operational for an area of 6.437 ha on lease before 2012 without EC, Authority decided to ask an explanation from the proponent why violation proceedings should not be initiated against the functioning of the quarry.

The proponent has submitted an explanation dt.22.01.2018, which states that the project was accorded the mine lease from Department of Mining and Geology for an area of 6.437 ha on 25.03.2006 that is prior to EIA Notification 2006, which was published on 14.09.2006. Therefore the current mine lease which is above 5 ha does not fall within the scope of violation.

- 5. The proposal was placed in the 81<sup>st</sup> meeting of SEIAA held on 08<sup>th</sup> March 2018. Authority accepted the recommendation of SEAC and decided to issue EC subject to general conditions in addition to the above specific condition as suggested by SEAC. The proponent should set apart Rs 20 fakhs (non-recurring) and 20 lakhs (recurring) per year for next 5 years for the welfare of the local community. The CSR amount should be included in the annual account of the company and the expenditure statement should be submitted to SEIAA along with the compliance report after getting certified by a Chartered Accountant. A notarised affidavit for the commitment of CSR activities and also agreeing all the general and specific conditions should be submitted before the issuance of EC. The proponent has submitted the Affidavit vide reference 6<sup>th</sup> cited.
- 6. Environmental Clearance as per the EIA Notification 2006 is hereby accorded for the quarry project of Sri Binu K. Mathew, Managing Director M/s Poabs Rock Products Pvt. Ltd., Poabs Group, Kuttoor P.O., Thiruvalla, Kerala-689106 in Survey No. 172 at Kodiyathoor Village, Kodiyathoor Panchayat, Kozhikode Taluk & Kozhikode District, Kerala for an area of 17.0334 hectares, subject to the specific conditions as in para 3 & 5 above, all the environmental impact mitigation and management measures undertaken by the project proponent in the Form I, EMP, PFR and Mining plan submitted to SEIAA. The assurances and clarifications given by the proponent will be deemed to be a part of these

proceedings as if incorporated herein. Also the general conditions for projects stipulated for mining (items 1 to 61), appended hereto will be applicable and have to be strictly adhered to.

- 7. 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 the Environment Management Plan 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 the undertakings in Chapter 7 (Blasting), Chapter 10 (EMP) Chapter 14 (Progressive Mine Closure Plan) of the Mining Plan as submitted will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.
- 8. Validity of the Environmental Clearance will be five years from the date of this Clearance, subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.

t. Also for

- 9. Compliance of the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices 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, Kozhikkode
- iii. The given address for correspondence with the authorised signatory of the project is Sri.Binu K. Mathew, Managing Director M/s Poabs Rock Products Pvt. Ltd., Poabs Group, Kuttoor P.O., Thiruvalla, Kerala-689106.

Sd/-P.H.KURIAN I.A.S, Member Secretary (SEIAA)

To,

Sri.Binu K. Mathew, Managing Director M/s Poabs Rock Products Pvt. Ltd., Poabs Group, Kuttoor P.O., Thiruvalla, Kerala-689106

#### Copy to,

- 1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.
- 2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
- 3. District Collector, Kozhikode
- 4. Director, Mining & Geology, Thiruvananthapuram -4.
- 5. The Member Secretary, Kerala State Pollution Control Board
- 6. District Geologist, Kozhikode
- 7. Tahsildhar, Kozhikode Taluk, Kozhikode District
- 8. Chairman, SEIAA.
- 9. Website.
- 10. S/f
- 11. O/c

Forwarded/By Order

Administrator, SEIAA



## STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

# GENERAL CONDITIONS (for mining projects)

- 1. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
- 2. Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- 3. 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.
- 4. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
- 5. Sprinklers shall be installed and used in the project site to contain dust emissions.
- 6. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- 7. 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 dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.
- 8. Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented
- 9. The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.
- Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- 11. Control measures on noise and vibration prescribed by KSPCB should be implemented.
- 12. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
- Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- 14. A licensed person should supervise/ control the blasting operations.
- 15. Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions.
- 17. Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is no mention is the mining plan/specific condition.
- 18. Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
- 19. Maximum depth of mining from general ground level at site shall not exceed 10m
- 20. No mining operations should be carried out at places having a slope greater than 45°.
- 21. 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.
- 22. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- 23. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
- 24. The transportation of minerals should be done in covered trucks to contain dust emissions.
- 25. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- 26. Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.
- 27. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
- 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.
- 29. 100 m buffer distance should be maintained from forest boundaries.

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

31. 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.

32. In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which only the E.C is issued, the project would require a fresh appraisal by this Authority, for which the proponentshall apply and get the approval of this Authority.

33. 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 State Environment Impact Assessment Authority (SEIAA) office 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 State Environment Impact Assessment Authority (SEIAA) office.

38. 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.

40. No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.

41. The Project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order

streams, if any, originating from the mine lease shall be taken.

42. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.

43. The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.

- 44. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.
- 45. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM<sub>10</sub> and PM<sub>2.5</sub> such as haul Road, loading and unloading points and transfer points it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- 46. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- 47. Measures should be taken for control of noise levels below 85 dBA in the work environment.
- 48. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- 49. The funds earmarked for environmental protection measures and CSR activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.
- 50. The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data/information/monitoring reports.
- Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 52. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- 53. The SEIAA may revoke or suspend the order, for non implementation of any of the specific or thisimplementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- 54. 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.
- This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.
- 56. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
- 57. The mining operation shall be restricted to above ground water table and it should not intersect ground water table.
- All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area'
- 59. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.
- 60. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.
- Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

For Member Secretary, SEIAA Kerala

