

Proceedings of the State Environment Impact Assessment Authority Kerala

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

Sub: SEIAA- Environmental clearance for the quarry project in Sy. No.1618 (not final) at Koodaranji Village, Koodaranji Panchayath, Thamarassery Taluk, Kozhikode District by Sri.Abdul Muneer.C, M/s Indo Black Stone - EC granted - Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KERALA

No. 862/SEIAA/EC4/2991/2015

Dated, Thiruvananthapuram, 15.06, 2017

Ref:

- 1. Application dated 29-07-2015 from Sri, Abdul Muneer, C (Managing Partner), M/s Indo Black Stone, Kunnath House, Karassery Jn, Mukkam, Kozhikode District, Kerala-673602
- 2. Minutes of the 62nd Meeting of SEAC, Kerala held on 06th & 07th September, 2016
- 3. Minutes of the 67th Meeting of SEAC held on 27th January 2017.
- 4. Minutes of the 65th meeting of SEIAA held on 22nd March 2017.
- 5. Affidavit dated 17.04.2017 submitted by Srr Abdul Muneer.C (Managing Partner), M/s Indo Black Stone

ENVIRONMENTAL CLEARANCE NO.41/2017

Sri. Abdul Muneer.C (Managing Partner), M/s Indo Black Stone, Kunnath House, Karassery Jn, Mukkam, Kozhikode District, Kerala-673602,vide his application received on 29-07-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 1618 (not final) at Koodaranji Village, Koodaranji Panchayath, Thamarassery Taluk, Kozhikode District, Kerala for an area of 3.2374 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.

The proposed project site falls Latitude: 11°19'52.20"N to 11°19'44.20"N and Longitude:76°05'25.84"E to 76°05'19.52"E. The proposed quarry project is interlinked with crusher unit proposed within the complex. The highest elevation of the lease area is 443 m MSL and lowest is 318 m MSL. The expected life of mine will be 11 years. A total quantity of 8,093 m³ of top soil and 3,237 m³ of over burden will be removed during the

mining operations. The top soil excavated from the quarry will be dumped separately at predetermined place and subsequently will be utilized in spreading over reclaimed areas for plantation. OB will be utilized from laying internal haul road and will form base in reclamation/plantation. About 0.8 KLD sewage generated from the mine office will be diverted to the specific tank followed by soak pit. The daily water demand will be 15 KLD. The total power requirement will be 75 kW, which will be drawn from diesel engine and the Fuel quantity is 16 to 20 lt/hr.

BASIC INFORMATION OF QUARRY PROJECT

PART A

		Project details
1.	File No.	862/SEIAA/EC4/2991/2015
2.	Name /Title of the project	Quarry Project of M/s Indo Black Stone is situated at Resurvey No. 1618 not final (unsurvey), Koodaranji Village & Panchayat, Thamarassery Taluk, Kozhikode District, Kerala in an area of 3.2374 hectares
3.	Name and address of project proponent.	Mr. Abdul Muneer C.(Managing Partner) M/s Indo Black Stone, Kunnath House, Karassery Jn., Mukkam, Kozhikode, Kerala-673602. Ph. 0495-2294112, Mobile No. 9645119801 / 8547881074 E-mail: - muneerc717@gmail.com
4	Owner of the land	M/s Indo Black Stone (Private Own Land)
5.	Survey No. District/Taluk/ and Village etc.	Resurvey No. 1618 not final (unsurvey), Koodaranji Village & Panchayat, Thamarassery Taluk, Kozhikode District, Kerala
6.	Nature of the proposal tease or permit with evidence.	The existing quarry was in operation with a short term quarrying permit issued by Mining & Geology Department, Kerala for area of 0.0486 ha.
7.	Date of submission of Application	29/07/2015
8.	Brief description of the project.	As per detailed estimation the geological reserves is about 45,85,610 MT. After deducting the minerals locked in mines safety slope of 31,80,561 MT, the mineable reserves arrived to be 14,05,049 MT. The annual production is estimated to be 1,25,000 MTA. At the end of life of mine, the ultimate floor (bottom) level will reach 318 m MSL. Under reclamation it is anticipated to undertake plantation in the applied area.

- 	<u> </u>	Ant	ticipating 50 % growth rate, at the end of life of mine about
		2,5	00 trees will be grown in the total area.
	Details of		. Abdul Muneer C.(Managing Partner)
	Authorized	NI /1	s Indo Black Stone,
	Signatory and		nnath House, Karassery Jn.,
9.	address for		ıkkam, Kozhikode, Kerala-673602.
!	correspondenc		0495-2294112,
	e		obile No. 9645119801 / 8547881074
		E-r	mail:- muneerc717@gmail.com Land Details
<u> </u>	Fortunal of or		Land Details
10.	a) Extent of a in hectares	rea	3.2374 Ha.
		the	
	property		
	forest		
11.	land/Govt.		Private Own Land
	land/own	i	
	land/patta		
	land		
	c) Quantity	of	
	top soil/o	ver	
12.	burden		8,093 Cu. M. (Top Soil) & 3,237 Cu. M. (Over Burden)
	produced a		
	managed		Latitude (N) 11°19'52.20" to 11°19'44.20"
13.	d) Latitude Longitude	and	Latitude (N) 11°19'52.20" to 11°19'44.20" Longitude (E) 76°05'25.84" to 76°05'19.52"
<u> </u>	Longrade		Part of the proposed land is exposed rock and the remaining
		:	land is covered with native trees, shrubs, herbs, grass,
	e) Topograph	V.	climbers, bushes etc. The topography of the lease area is
14.	of land		hilly. The highest elevation of the proposed mining area is
	elevation		443 m MSL and lowest is 318 m MSL. As the proposed area
	**		is hill rock, the drainage of the lease area is towards south-
: 4.			west. No habitants are located in the lease area.
15.	f) Slope anal;	vsis	As the proposed area is hill rock, the drainage of the lease
Tiefe			area is towards south-west.
	g) Will there	be	
	any	:	
	significant		
	disturbance	Δ.	Zone-III, Moderate damage risk zone as par BMTPC,
16.	resulting	in	Vulnerability atlas Seismic zone of India IS: 1893-2002.
	soil eros		, , , , , , , , , , , , , , , , , , , ,
	subsidence		
	natural		
	drainage.		
		road	
17.	to the	site	6 m wide road
17.	width	and	VIII HILL IVER
	condition		

18.	i)	Will there be any adverse impact on the aesthetics of the proposal	No, the land used will be fully reclaimed and rehabilitated by backfilling the pits and plantation. Plantation and afforestation will add to the improvement in environment and aesthetic beauty of the area.
		site	Mining dataile
			Mining details
19.	a)	Minimum and Maximum height of excavation.	The exploitation of mineral is being done from 443 m MSL to 318 m MSL in conceptual phase.
20.	b)	Life of mine proposed.	About 11 years.
21.	c)	Underground mining if any proposed	The working will be carried out by opencast semi- mechanized method as per the approved Mining Plan.
22.	d)	Mining	The working will be carried out by opencast semi- mechanized method as per the approved Mining Plan
23.	e)	Distance from the adjacent quarry	There is no quarry within 500m radius to the proposed quarry
24.	f)	Cluster condition if any	No cluster condition applicable
25:	g)	Has "No cluster certificate" submitted?	Yes, cluster certificate is already submitted with EC Application at page No. 140.
26.	h)*	Distance from nearby habitation	The nearest house is located at 140m from the project site. However, Nearest house mentioned in our application (Form 1) is at 51m. This house is purchased by the Project Proponent vide Registry Dt. 10/07/2015 (Document No. 784/1/2015). This aspect was stated by us during the appraisal stage and field visit of the project. Since there is no occasion for updation of Form 1, we make this submission now.
27.	i).	Distance from nearby forest, if applicable	None within the study area
28.	j)	Distance from protected area, Wildlife Sanctuary, National Park etc.	None within the study area
29.	k)	Distance from nearby streams/rivers /National	Chaliyar River, 3 km., NE Iruvazhinji, 9.5 km., W

	Highway and							
	Highway and Roads							
_	l) Is ESA							
	applicable? If	•						
30.	so distance	Not falling in ESA						
	from ESA							
	limit							
	m) Has approved							
2.	mining plan,	Yes, the approved mining plan prepared by RQP is already						
31.	prepared by RQP	submitted with EC Application						
	submitted?							
	n) Capacity of							
32	production in	1,25,000 MTA						
1	TPA							
		The mining will be done by open cast semi-mechanized						
ı	o) Details of	method of mining. The bench height and width will be						
33.	mining	maintained 5 m. Excavated material is transported to the crusher unit existing within the complex for further						
	process	processing. The ultimate depth of the mine workings is						
		estimated to reach upto 318 m MSL						
· · · · · ·	<u>-</u>	Details of Project cost						
34.	a) Land cost	Rs. 2.25 Crores (All inclusive)						
	b) Plant and	Rs. 2.25 Crores (All inclusive)						
35.	Machinery							
36.	c) Total Cost	Rs. 2.25 Crores (All inclusive)						
	V. Financial	D- 125 C-						
	Statement including	Project Cost = Rs. 2.25 Cr. Insurance = Insurance to the quarry workers						
37.	funding	would provide through insurance company.						
3/-	sourceand	Funding = Own source & bank loan						
	details of							
	insurance etc.							
* 3		Air Pollution Mining activities will generate certain						
		quantities of dust during drilling, blasting,						
i		loading and transportation operations. The following measures will be taken to						
		mitigate the fugitive dust from different						
		operations.						
	# · ·	• Laying of haul road as per the						
38.	Management Plan	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 but rellectors						
1		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 the lease area.	
.				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 slicets.	
		4 ⁴		• 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	
Ī			Pollution	with an appropriate capacity. The water	
	1			requirement for sprinkling on sources of	
				dust emission, on roads, 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,	
		1		drilling, blasting and plying of vehicles.	-
				The following control measures are to be	
				undertaken to bring down the noise levels:-	
				• Proper maintenance of machinery,	
ĺ				equipments and improvement on design	
				of machines.	<u> </u>
				 Use of personal protective devices i.e., earmuffs and earplugs by workers, 	
				who are working in high noise	
		· ·		generating areas.	
				• Creation of wide green belt of dense]
				foliage between mine areas and	
				residential colonies.	

	· ·	· · · · · · · · · · · · · · · · · · ·	
		related health problems	
		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.	
	·	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	
	S	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	
1		shelf life. It will be suitably protected from	
		soil erosion and infertility by planting	
		fodder grass and leguminous plants during	3.
		temporary storage.	
		Overburden Management	
		This waste will be utilized within the pit for	
		ying of haul roads. At the end use, OB can	1
	+	e reutilized as soil base for plantation.	
		Eco- The year wise programme of eco-	
		restoration restoration for the life of mine, about 2,500	
		trees will be planted in an area 2.7874 ha.	-
	VI. Whether		
	Environment	Detailed Environment Management Plan is already	
39.	Management Plan	submitted with E.C. Application at Page No.64-70	
	or Eco restoration		
	Plan satisfactory?		
	VII. Does it		
40.	suggest mitigation	Detailed Environment Management Plan is already	
	measures for	submitted with E.C. Application at Page No.64-70	
	each activity		
	VIII. If Pre-		
41.	Feasibility Report	Detailed Pre-Feasibility Report (PFR) is already submitted	
71.	(PFR)	with E.C. Application at Page No. 27-100.	
	satisfactory	·	
	IX. Does it		
42.	need public	No, Not required	
	hearing		
	X. Details of		
12	litigation and	NT- 1iaiaidia n	
43.	Court verdict if	No litigation pending	
	any	·	
	<u> </u>	<u> </u>	

	XI. Details of	
44.	public complaint,	No public complaint received
	if any	
	• .	The following Govt. Orders / Policies are to be followed:-
	•	Kerala Minor Mineral Concession Rules, 2015.
		Mines Act, 1952
		Explosive Rules, 2008
	XII. Details of	Kerala Panchayat Raj Act, 1994
1.5		Central Ground Water Authority
45.	statutory sanction	Water Pollution (Prevention & Control) Act, 1974
	required	Air Pollution (Prevention & Control) Act, 1981
		Environment Protection Act, 1986
	•	EIA Notification, 2006 / 2009
		> The Kerala Promotion of Tree Growth in Non-Forest
		Areas (Amendment) Act, 2007.
	XIII.If CRZ	
46.	recommendation	Not Applicable
	applicable?	
		PART B
	Environment	Impact Assessment and Mitigation Measures
Impact	on water	
	·	The total water requirement is about 15 KLD in which 1
	a) Details of	TELES TOT COMPOSITOR WINDER
477	water	well, 12 KLD for dust suppression system in mine as well as
47.	requirement	ancillary unit (Crusher/M sand Unit) and 2 KLD for
	per day in	plantation purposes and will be sourced from storm water
	KLD	pond.
		The total water requirement is about 15 KLD in which 1
	L) Water	KLD is for domestic which would be sourced from open
10	b) Water	well, 12 KLD for dust suppression system in mine as well as
#0,	source/source	ancillary unit (Crusher/M sand Unit) and 2 KLD for
	S.	plantation purposes and will be sourced from storm water
		pond.
	e) Expected	
49.	water use per	15 KLD
	day in KLD.	
-	d) Details of	
	water	About 12 KLD for dust suppression system in mine with
	requirements	ancillary unit (Crusher/M sand Unit) and 2 KLD for
50.	met from	plantation purposes and will be sourced from storm water
	water	pond
	harvesting.	
-	e) What are the	
	impact of the	No simultinent impact annigated an around water due to the
51.	proposal on	No significant impact envisaged on ground water due to the
	the ground	mining project.
	water?	
	f) How much of	N. CITD 1 for treatment of treatment
52.	the water	No STP proposed for treatment of waste water.
L		<u> </u>

	<u> </u>	
	requirement	•
	can be met	
	from the	
	recycling of	
	treated waste	
	water?	
	(Facilities for	
	liquid waste	·
	treatment)	
	g) What is the	· · · · · · · · · · · · · · · · · · ·
	incremental	
	pollution load	
	from waste	The sewage to a tune of 0.8 KLD generated from the mine
53.	water	office will be diverted to the septic tank followed by soak
33.	generated	pit.
	from the	
	proposed activities?	
·	 	The run-off from the lease area will be suitably collected
	h) How is the	through channels and will be stored in storm water pond for
	storm water	further utilization in Mine/ Crusher units. However, all
54.	from within	measures will be taken not to disturb the natural drainage
	the site	measures will be taken not to disturb the minute craiming
	managed?	system of the surrounding area.
		iodiversity and Eco restoration Programmes
	a) Will the	
	project	
	involve	there will be loss of some
	extensive	Due to the mining activities, there will be loss of some
55.	clearing or	native species and vegetation. However, some of these
	modification	species will be planted at the end use for eco-restoration.
	of vegetation	
	(Provide	
	details)	
	b) What ate the	
	measures	
	proposed to	
	minimize the	
1	likely impact	The year wise programme of eco-restoration for the life of
56.	1000000 AUA V	mine, about 2,500 trees will be planted in an area 2.7874 ha.
	(details of	
	proposal for	
	tree	
	plantation/	
	landscaping)	
-	c) Is there any	
1	displacement	
57	·	
31	both	Not applicable
	terrestrial and	· •
1	terrestrial and	

	aquatic. – If	
	so what are	No endangered species found at site.
	the mitigation	
	measures?	
[incubation .	
	d) Presence of	·
i .		
	any	
	endangered	
	species or red	
	listed	
	category (in	
	detail)	
		Impact on Air Environment
-		Mining activities will generate certain quantities of dust
		during drilling, blasting, loading and transportation
	•	operations. The following measures will be taken to mitigate
1		the fugitive dust from different operations.
		• Laying of haul road as per the standards, black topping
	•	of permanent haul road and service road to avoid or
	a) What are the	eliminate air borne dust.
-	,	• To avoid the dust generation from the drilling
	mitigation	operations, wet drilling method will be adopted.
	measures on	Drill machines will be equipped with dust collectors.
58.	generation of	Use of appropriate explosives for blasting and avoiding
	dust, smoke	overcharging of blast holes.
	and air	Controlled blasting techniques will be adopted.
	quality	Watering of haul road and other road at regular intervals.
		• Provision of dust filters/ mask to workers working at
4		highly dust prone and affected areas.
		Provision of green belt all along the periphery of the
. 450 f		lease area.
		• Periodical monitoring of ambient air quality in and
		around the lease area.
7.07.0		The extracted mineral will be transported from the
		quarry to the end user by adopting following measures
	b) Details of	so as to minimize dust emissions.
ļ	internal	• In case of long transportation the trucks after loading will
59.	traffic	be covered with tarpaulin sheets.
57.	management	• Speed of the vehicles will be maintained within the
	of the site.	prescribed limits.
	Of the Site.	Trucks will not be over loaded and will be maintained to
	·	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	the body level
	c) Details of	The major noise generating source from the proposed
	noise from	activity is working machinery, drilling, blasting and plying
60.	traffic,	of vehicles. The following control measures are to be
00.	machines and	undertaken to bring down the noise levels:-
	vibrator and	1
	mitigation	improvement on design of machines.

		measures	• Use of personal protective devices i.e., earmuffs and earplugs by workers, who are working in high noise
			generating areas.
	1		• Creation of wide green belt of dense foliage between
	1		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.
 	<u>d)</u>	Impact of DG	dettons.
	" <i>)</i>	sets and other	
		equipments	
		on noise and	
		vibration and	
61.		ambient air	No DG Set proposed
		quality	
		around the	
		project site	
		and	
		mitigation	
		measures	
	e)	Air quality	The ambient air quality monitoring of the project site was
62.		monitoring in	carried out and the copy of report is already submitted with
		detail	E.C. Application.
			Energy Conservation
	a)	Details of	
		power	
63.		requirement	The total power requirement will be 75 kW, which will be
	iii.	and source of	drawn from diesel engine. Fuel Quantity – 16 to 20 lt/ hr.
		supply,	
	b)	Details of	
	,	renewable	The total power requirement will be 75 kW, which will be
64.		energy (non –	drawn from diesel engine. Fuel Quantity – 16 to 20 lt/ hr.
		conventional)	grawn from dieser engine, ruer Quantity – 10 to 20 ft/ fil.
		used.	·
		uovu.	Disk Management
	1)	A.n. 18 11	Risk Management
	1)	Are there	
		sufficient	
		measures	
		proposed for	
65.		risk hazards	Detailed Environment Management Plan is already
65.			Detailed Environment Management Plan is already submitted with E.C. Application at Page No. 64-70.
65.		risk hazards	,
65.		risk hazards in case of	,
65.		risk hazards in case of emergency	,
65.		risk hazards in case of emergency such as	,
	2)	risk hazards in case of emergency such as accident at the site?	submitted with E.C. Application at Page No. 64-70.
65. 66.	2)	risk hazards in case of emergency such as accident at	,

	3)	around the quarry satisfactory? Storage of explosives/ha zardous substance in detail Facility for solid waste	blastin with o rock. I explos compli Explos Top so separa	ione quarry mine ag for mining the ptimum charge of Explosion hazards ives. Explosives iance of conditionsive &Metalliferoupil and over burde tely on earmarked tion and internal residue.	mir holes are will ons as M n ge	neral. Hes will be envise be ha impose lines Reenerated blace ar	owever, controlled out aged due to modified with under the desired out to make the controlled out to m	to loosen the hishandling of tmost care in Controller of will be stored	
		management	Soc	cio Economic Im	nac	ts			
67.	a)	Will the project cause adverse effects on local communities disturbance to sacred sites or other cultural values. What are the safe guards	The parea propo many	proposed project by providing en sed development supporting facili development of t	will mple in	directloyment and arc	opportunitie ound the area	es. With the there will be	
68.	b)	proposed? Will the proposal result in any changes to the demographic structure of local population. If so, provide details.	be character by ch	project site is privange in the land ighest elevation is 318 m MSI age is towards Set will be confined	use of the L. A SW. I wi	as mir he lease s the r Howe thin the	ning area in the area is 443 proposed area ver, any other lease area.	he core zone. m. MSL and a is hilly, the er significant	
	c)	Are the CSR	Sl. No	Areas Intervention Health Care	of	No. of Inte rven tion	Recurring Expenses (in Rs.)	Non Recurr Expenses Rs.)	ing (in
69.		proposals satisfactory. Give details	3 4	Promotion Education Help to hapless Development	of of	2	2,34,000 2,88,000 75,000	1,00,000 30,000 2,50,000	
			5	infrastructure Environmental sustainability	· · · · · ·	2	2,67,500	Nil	

			•		_	
		6	Reduction in carbon footprint & CO ₂ emission	1		90,000
			Total	11	11,94,500	4,70,000
70.	d) What are the projects benefits in terms of employment potential?	unit.	to the mining activity there will be worker osed to employ 10 per	s attrac	cted to the pro	sched ancillary oject area. It is
			PART C			
71.	Details of NABET approved EIA Consultant engaged-Their name, address and accreditation	Head Bran C-30	Environmental Engine BET Accredited Cons I Office:-A1-198, Jar ch Office:-	ultant nakPur	Organization) i, New Delhi.	ivattom P.O.,
i	details		ni, Kerala. mmary and Conclu	A 107	(KATaya Najir (Marija) (As	
72.	a) Overall justification for implementati on of the project. b) Explanation of how	will oppored area projecto-possouts plan the sub-con affe	ettlement and Rehalect. The project infrance area. The revenue easing due to the project is devoid of any oposed to reclaim the restoration with sible extent. Additude the proposed mining area for station. Also, a stormining area for station. Thus the extent use so sumption. Thus the ect the environment of ailed Pre-Feasibility	the classification in the control of the coposed and a mative ionally ining a mative as to proper adjaction Repo	nance of monabitants. The mabitants. The mabitants in the construction is suestimated from the construction of the constructio	here are no volved in this f use to people ill be definitely e entire project and fauna. It is green cover for a maximum is earmarked pensatory mass oposed outside ter and for its fresh water is not likely to adversely.
73.	adverse	Ma	nagement Plan (EM plication at Page No.	P) is	already subm	itted with E.C.

2. The proponent has submitted the Mining Plan as per Kerala Minor Mineral Concession Rule, 2015 on 18/12/2015. Since the tenure of the SEIAA, Kerala had

expired; the proponent submitted an application to MoEF directly for getting EC. Since SEIAA, Kerala has been constituted later, MoEF returned to SEIAA on its constitution as per letter No. Z-11013/24/2015-IA-II (M) dated 01-04-2015 of the MoEF. The proponent submitted application including Form I, Pre-feasibility report, EMP and Approved mining plan.

3. Considering the above, the proposal was placed in the 62nd Meeting of SEAC, Kerala held on 06th & 07th September, 2016 and the Committee deferred the item for field visit and report was furnished below:-

Field visit to the site was carried out on 12 Nov 2016 by Dr. P.S. Harikumar and Dr.Khaleel Chovva. The representatives of the proponent were present during the site inspection.

Observations

The approach road is not maintained properly. During the operation of the quarry reasonably high quantity of top soil and overburden has to be removed from the site. The drainage was not properly maintained. Sign boards and fencing was not seen at the site.

Specific Condition

- 1. The approach road has to be maintained properly
- 2. The top soil and overburden to be removed should be deposited at a designated place
- 3. Proper drainage should be provided so as to collect the water flowing from the site. It should be collected clarified before discharge
- 4. A site specific details of the flora and fauna should be provided

In addition to the general conditions the above specific conditions needs to be complied with

- 4. The proposal was considered in the 67th Meeting of SEAC held on 27/01/2017. The Committee appraised the proposal based on Form I, Pre-feasibility Report, Mining Plan, field inspection report of the Sub Committee and all other documents submitted with the proposal. The Committee decided to Recommend for issuance of EC subject to general conditions in addition to the following specific condition for mining.
 - 1. If any plant species endemic to Western Ghats are noticed in the area they shall be properly protected in situ or by transplanting to an appropriate location inside the lease area.

The proponent agreed to set apart 4.7 lakh (non-recurring) and Rs.12 lakh per annum (recurring) for CSR activities for the welfare of the local community in consultation with the local Panchayat.

- 5. The proposal was finally considered by the Authority in its 65th meeting held on 22nd March 2017. The Authority decided to issue EC subject to the strict implementation of all specific conditions in addition to the general conditions. An affidavit to the effect that all the pre mining conditions mentioned by the Committee in the inspection report have been implemented.
- 6. The proponent has submitted the Affidavit satisfying all the above conditions vide reference 5th cited. Environmental Clearance as per the EIA notification 2006 is hereby accorded for the proposed Quarry project in Survey.No.1618 (not final) at Koodaranji Village, Koodaranji Panchayath, Thamarassery Taluk, Kozhikode District by Sri.Abdul Muneer.C (Managing Partner), M/s Indo Black Stone, Kunnath House, Karassery Jn, Mukkam, Kozhikode District, Kerala-673602, for an area of 3.2374 hectares, subject to the specific conditions as recommended by \$EAC in para 3 & 4 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 4 (Mining), Chapter 5 (a) (Blasting), Chapter 6 (Mine Drainage), Chapter 7 (Stacking of Mineral Reject/Subgrade Material and disposal of waste) Chapter 12 (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.
- 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 to take legal action under the Environment (Protection) Act 1986.
- iii. The given address for correspondence with the authorised signatory of the project is Sri.Abdul Muneer.C (Managing Partner), M/s Indo Black Stone, Kunnath House, Karassery Jn, Mukkam, Kozhikode District, Kerala-673602.

Sd/-JAMES VARGHESE .I.A.S, Member Secretary (SEIAA)

To,

Sri. Abdul Muneer. C (Managing Partner), M/s Indo Black Stone, Kunnath House, Karassery Jn, Mukkam, Kozhikode District, Kerala-673602

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. Director, Mining & Geology, Thiruvananthapuram -4.
- 4. District Geologist, Kozhikkode
- 5. District Collector, Kozhikkode
- 6. Secretary, Koodarajni Panchayat Office, Koodaranji P.O,

Thamarassery Taluk, Kozhikkode – 673 604
7. Chairman, SEIAA.
8. Website.
9. S/f
10. 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.
- 10. 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.
- 13. 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.
- 16. 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°.
- 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.
- Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
- 28. 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.

34. 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.

36. 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.

37. 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

39. 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.

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.

Catch drains and siltation ponds of appropriate size shall be constructed around the mine 44. 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.

Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas 45. prone to air pollution and having high levels of PM10 and PM2.5 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.

Fugitive dust emissions from all the sources should be controlled regularly. Water spraying 46. arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

Measures should be taken for control of noise levels below 85 dBA in the work environment. 47.

A separate environmental management cell with suitable qualified personnel should be set-up 48. under the control of a Senior Executive, who will report directly to the Head of the Organization.

The funds earmarked for environmental protection measures and CSR activate should be kept in 49. 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.

The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the 50. 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 51. preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Concealing the factual data or submission of false/fabricated data and failure to comply with any 52. of the conditions mentioned above may result in withdrawal of this clearance and attract action

under the provisions of Environment (Protection) Act, 1986.

The SEIAA may revoke or suspend the order, for non implementation of any of the specific or 53. 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.

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.

54.

This order is valid for a period of 5 years or the expiry date of mine lease period issued by the 55.

Government of Kerala, whichever is earlier.

The Environmental Clearance will be subject to the final order of the courts in any pending 56. litigation related to the land or project, in any court of law.

The mining operation shall be restricted to above ground water table and it should not intersect 57.

ground water table.

- All vehicles used for transportation and within the mines shall have 'PUC' certificate from 58. authorized pollution taking centre. Washing of all vehicles shall be inside the lease area'
- Project proponent should obtain necessary prior permission of the competent authorities for 59. drawal of requisite quantity of surface water and ground water for the project.
- Regular monitoring of flow rates and water quality upstream and downstream of the springs and 60. 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 61. observe any contractions due to exposure to dust and take corrective measures, if needed.



For Member Secretary, SEIAA Kerala

