

**MINUTES OF THE 274<sup>TH</sup> MEETING OF THE STATE LEVEL EXPERT APPRAISAL COMMITTEE HELD ON 19/01/2016 AT COMMITTEE ROOM, GUJARAT POLLUTION CONTROL BOARD, GANDHINAGAR.**

The 274<sup>th</sup> meeting of the State Level Expert Appraisal Committee (SEAC) was held on 19<sup>th</sup> January 2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar. Following members attended the meeting:

1. Shri T.P. Singh, Chairman, SEAC.
2. Shri V.C.Soni, Vice Chairman, SEAC
3. Dr. Mayuri Pandya, Member, SEAC
3. Shri V. N. Patel, Member, SEAC
4. Shri R.J. Shah, Member, SEAC

Following officers from the Geology and Mining Department attended the meeting:

1. Shi N.P. Sanghvi, Asst. Geologist, Dist: Mehsana,
2. Shri U.K. Singh, Asst. geologist, Dist: Banaskantha
3. Shri J.R. Savner, Geological Assistant, Dist: Panchmahal
4. Shri D.M. Patel, I/C Geologist, Dist: Chotaudepur
5. Shri P.J. Bhavsar, Geologist, Dist: Vadodara
6. Shri K.K. Vyas, Royalty Inspector, Dist: Sabarkantha
7. Shri K.N. Mahavadia, Asst Geologist, Dist: Rajkot, Junagadh
8. Shri M.D. Chaudhry, Geological Assistant, Dist: Kutch
9. Shri Akshay Modi, Royalty Inspector, Dist: Navsari
10. Shri Hitesh Patel, Mine Supervisor, Dist: Tapi
11. Shri Chinan A, Mining Supervisor, Dist: Kheda
12. Shri Dharmesh A OAd, Royalty Inspector, Dist: Valsad
13. Shri M.R. Vala, Asst. Geologist, Dist: Surendranagar and Morbi
14. Shri D.K. Patel, Geologist, Dist: Surat
15. Shri G.M. Sokkadia, Mining Supervisor, Dist: Porbandar
16. Shri S M Khopkar, Asst. Geologist, Dist: Navsari, Valsad.
17. Shri Nirav barot, Asst. Geologist, Dist: Bhavnagar, Botad
18. Shri A.B. Ojha, Asst. Geologist, Dist: Ahmedabad, Gandhinagar
19. Shri J.K. Gor, Geological assistant, Dist: Bharuch.

Sr.No.	District	Ord. Clay	Building lime stone	Building stone	sand	Black Trap	Bentonite	sand Stone	China Clay	Silica Sand	Granite	total
1	Ahmedabad	1										1
2	Banaskantha	0	17	6	3							26

3	Bharuch				6	1						7
4	Bhavnagar				2	3						5
5	botad				3							3
6	Chhotaudepur				8	2						10
7	Devbhumi dwarka					1						1
												0
8	Gandhinagar				1							1
9	Gir Somnath		2									2
10	Jamnagar					1						1
11	Junagadh		3		3	2						8
12	Kheda				2	3						5
13	Kutch		1		5	28	13	2	2			51
14	Mehsana	2			1							3
15	Morbi						1	1				2
16	Narmada					2						2
17	Navsari					1						1
18	Panchmahal				2	4						6
19	Patan	3										3
20	Porbandar		2		1							3
21	Rajkot				1	3						4
22	Sabarkantha				2	1				2	4	9
23	Surat				4	2						6
24	Surendranagar					3		1		1		5
25	<b>Tapi</b>				6	2						8
26	<b>Vadodara</b>				3							3
27	<b>Valsad</b>					2						2
	<b>Total</b>	6	25	6	53	61	14	4	2	3	4	178

All 178 proposals of minor minerals which have been received by the Committee through the district office of the Geology and Mining were taken up in the meeting.

Committee noticed that Ministry of Environment, Forest & Climate Change, Government of India vide their Notification No:S.O.141 (E) dated 15.01.2016 has delegated powers for the grant of Environment Clearance for mining projects having lease area up to 5 hectares are delegated to the District Level Environment Impact Assessment Authority (DEIAA). Further, the Ministry of Environment, Forest & Climate Change, Government of India has also vide their Notification No: S.O. 190 (E) dated 20.01.2016 constituted the District Level Environment Impact Assessment Authority (DEIAA) and District Level Expert Appraisal Committee (DEAC) for this purpose.

Considering above, all the proposals having lease area up to 5 hectare scheduled in today's meeting for mining of minor minerals have been unanimously decided to transfer to the concerned district environment impact assessment authority (DEIAA).Committee also

noticed that proposals nos: SIA/GJ/MIN/3747/2015, SIA/GJ/MIN/3160/2015, SIA/GJ/MIN/3275/2015, SIA/GJ/MIN/3017/2015, SIA/GJ/MIN/3025/2015, SIA/GJ/MIN/3249/2015, SIA/GJ/MIN/3370/2015, SIA/GJ/MIN/3318/2015, SIA/GJ/MIN/3484/2015. SIA/GJ/MIN/2875/2015 are having lease area above 5 hectare however approved mining plan and details regarding formation of cluster details for homogeneous minerals within 500 meter radius from the outer periphery of the lease area are not submitted. During meeting committee asked ast geologist to submit approved mining plan and environment management plan for the proposal Nos: SIA/GJ/MIN/3747/2015, SIA/GJ/MIN/3160/2015, SIA/GJ/MIN/3275/2015, SIA/GJ/MIN/3017/2015, SIA/GJ/MIN/3025/2015, SIA/GJ/MIN/3249/2015, SIA/GJ/MIN/3370/2015, SIA/GJ/MIN/3318/2015, SIA/GJ/MIN/3484/2015, SIA/GJ/MIN/2875/2015 and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area.. Upon submission of the approved mining plan and formation of cluster details for homogeneous minerals within 500 meter radius from the outer periphery of the lease area if any, committee unanimously decided to take up these proposals for further consideration in one of the upcoming SEAC meeting.

**ORDINARY CLAY MINING PROJECT, DISTRICT: AHMEDABAD**

Sno	Proposal No.	Project Name	S. NO.	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3114/2015	Ambica Bricks Factory	40,41,42 & 43	Singarva/Daskroi	08-05-20 New	1150 Mt/M	Singarva village : 260 mts.  State Highway: 100 mts.		

Shri A.B.Ojha, Asst. Geologist, Dist: Ahmedabad mentioned that above proposal does not include blasting and mineral will be removed through open cast mining. It was also noticed that proposal does not involve intersection of ground water table. It was presented that arrangement of water sprinkling will be done during excavation and loading of mineral for transportation. Depth of mining will be restricted to 2 meter.

During presentation, Shri A.B. Ojha mentioned that state highway from the proposed lease area is located at 100 meter and the nearest human habitation is located at 260 meter. Referring to the location of the proposed lease, committee unanimously decided to recommend the above proposal for rejection of environmental clearance to SEIAA.

**The details of the proposals falls under the purview of DEIAA having lease area up to 5 hectare are as under.**

**BUILDING LIME STONE MINING PROJECTS, DISTRICT: BANASKANTHA**

Sno	Proposal No.	Project Name	S NO	Vill,Taluk a	Hectare	Rate of mining	Nearest Habitation	Proposed use of mineral
1	SIA/GJ/MIN/3099/2015	Dalajibhai Haribhai Patel						
2	SIA/GJ/MIN/3135/2015	Ashrafbhai Hanifbhai Junakiya	67	Chhaniya na/ Vadgam	1.80.00/ New	1500 MT/M	Hasanpur 870 M	
3	SIA/GJ/MIN/3144/2015	Premjibhai Nanjibhai Patel						
4	SIA/GJ/MIN/3148/2015	Junakiya Hanifbhai Nurmah ammd	67	Chhaniya na/ Vadgam	1.15.00/ New	1200 MT/M	Hasanpur 890 M	
5	SIA/GJ/MIN/3184/2015	patel rameshbhai laxmanbhai	67	Chhaniya na/ Vadgam	02-20-00/ Esxisting	2333 MT/M	Hasanpur 1.12 km	
7	SIA/GJ/MIN/3758/2015	national quarry works	44 P	Vajasana /Danta	1-00-00/ Existing	1250 MT/M	Jaswantgadh 1.68 km	
8	SIA/GJ/MIN/3813/2015	dinesh quarry works	44 P	Vajasana /Danta	1-00-00/ Existing	1250 MT/M	Jaswantgadh 1.68 km	
9	SIA/GJ/MIN/3819/2015	abdulsa mad abdulmajid	44 P	Vajasana /Danta	00-28-00/ Existing	1250 MT/M	Jaswantgadh 1.78 km	
10	SIA/GJ/MIN/3824/2015	hindustan quarry works	139 P	Jasvantgadh/ Danta	1-00-00/ Existing	1250 MT/M	Jaseantgadh 1.97 km	
11	SIA/GJ/MIN/3826/2015	Allarakh abhai Momjibhai Borani	140 P	Jasvantgadh/ Danta	1-00-00/ Existing	1250 MT/M	Jaseantgadh 1.65 km	

		ya						
12	SIA/GJ/MIN/ 3833/2015	jay quarry works	44 P	Vajasana /Danta	1-00-00/ Existing	1250 MT/M	Jaseantgadh 1.32 km	
13	SIA/GJ/MIN/ 3835/2015	Banas Quarry Works	44 P	Vajasana /Danta	1-00-00/ Existing	1250 MT/M	Jaseantgadh 1.35 km	
14	SIA/GJ/MIN/ 3197/2015	junakiya hanifbha i nurmah ammd						
15	SIA/GJ/MIN/ 3200/2015	patel rameshb hai nanjibha i	67	Chhaniya na/  Vadgam	1-00-00/ /New	12000 Mt/year	Chhaniyana 1.00 km	
16	SIA/GJ/MIN/ 3204/2015	patel daljibhai haribhai	67	Chhaniya na/  Vadgam	3-00-00/ Existing	3000 Mt/M	Chhaniyana 1.16 km	
17	SIA/GJ/MIN/ 3215/2015	patel premjib hai nanjibha i	67	Chhaniya na/  Vadgam	2-35-00/ New	2000 MT/M	Hasanpur 980 M	

**BUILDING STONE MINING PROJECTS, DISTRICT: BANASKANTHA**

Sno	Proposal No.	Project Name	S NO	Vill,Taluk a	Hectare	Rate of mining	Nearest Habitation	Proposed use of mineral
1	SIA/GJ/MIN/ 3173/2015	ahemad khansin dhi	67 P	Hasanpu r/ Palanpu r	03-32-00/ Existing	1666 MT/M	1.00 km	constru ction

2	SIA/GJ/MIN/3192/2015	junakiya ashrafbhai hanifbhai	Lime Stone	JUNAKIYA ASHRAFBHAI HANIFBHAI	Banas Kantha
3	SIA/GJ/MIN/3197/2015	junakiya hanifbhai nurmahammad	Lime Stone	JUNAKIYA HANIFBHAI NURMAHAMMAD	Banas Kantha
4	SIA/GJ/MIN/3200/2015	patel rameshbhai nanjibhai	Lime Stone	PATEL RAMESHBHAI NANJIBHAI	Banas Kantha
5	SIA/GJ/MIN/3204/2015	patel daljibhai haribhai	Lime Stone	PATEL DALJIBHAI HARIBHAI	Banas Kantha
6	SIA/GJ/MIN/3215/2015	patel premjibhai nanjibhai	Lime Stone	PATEL PREMJBHAI NANJIBHAI	Banas Kantha

**SAND MINING PROJECTS,DISTRICT: BANASKANTHA**

Sno	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation
1	SIA/GJ/MIN/3747/2015	chenjim otijithakor	190 P Banas river	Chhtrala/Deesa	7-42-60 / New	2600 MT/M	Chhtrala 1.79 km
2	SIA/GJ/MIN/3078/2015	Parsotambhai Hargovanbhai Joshi					
3	SIA/GJ/MIN/3751/2015	Vaghelamansinghnathubha	Block No.21 Banas river	Raner/Kankrej	4-00-00/ New	2800 MT/M	Jamana Padar 1.62 km

Shri U.K.Singh, Asst. Geologist, Dist: Banaskantha represented proposal No: SIA/GJ/MIN/3747/2015 before the committee. During presentation, he informed that proposal No:SIA/GJ/MIN/3747/2015 is located in private land. It was also represented that no any bridge piers / water intake wells / irrigation structures exist within 500 m distance from boundary of any of above lease area. He explained that sand excavation will be done up to maximum 3 m depth or water level, whichever is less. Water sprinkling will be done during loading of material. All the transportation vehicles are proposed to be covered to avoid fugitive emission of fine particles.

During meeting, committee noticed that lease area of the above proposal no: SIA/GJ/MIN/3747/2015 is 7-42-60 hectare which is above 5 hectare however approved mining plan and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area are not submitted. During meeting committee asked asst. geologist to submit approved mining plan, environment management plan (EMP) and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area. Upon submission of the said details, committee unanimously decided to take up the proposal No: SIA/GJ/MIN/3747/2015 for further consideration in one of the upcoming SEAC meeting.

#### SAND MINING PROJECTS, DISTRICT: BHARUCH

Sno	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/2995/2015	ANSARI ZARINA BEN SAID AHMED							
2	SIA/GJ/MIN/3001/2015	ANSARI SAIYEDB HAI AIYUBB HAI							
3	SIA/GJ/MIN/3002/2015	ANSARI ZARINA BEN SAID AHMED							

4	SIA/GJ/MIN/ 3137/2015	ALPABE N N THAKOR							
5	SIA/GJ/MIN/ 3374/2015	FALGUN IBEN NAREND RABHAI SURTI							
6	SIA/GJ/MIN/ 3379/2015	FALGUN IBEN NAREND RABHAI SURTI							

#### BLACK TRAP MINING PROJECTS, DISTRICT: BHARUCH

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/ 3791/2015	OTHER THEN SAND MINING PROJECT (BLACKTRAP)							

#### BLACK TRAP MINING PROJECTS, DISTRICT: BHAVNAGAR

Sno	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/ 3142/2015	Batukbha Jagdishku mar Gohil		Bhensavadi / Talaja	01-00- 00/ Existing	1000 MT/M	Bhensavadi 0.80 km	Protected Forest in the periphery of 10km of lease area	
2	SIA/GJ/MIN/ 3211/2015	other then sand mining project- blacktrap							
3	SIA/GJ/MIN/ 3212/2015	other then sand							



		mining project-blacktrap							
--	--	--------------------------	--	--	--	--	--	--	--

**SAND MINING PROJECTS,DISTRICT: BHAVNAGAR**

Sno	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3038/2015	ORDINARY SAND MINING PROJECT							
2	SIA/GJ/MIN/3790/2015	ORDINARY SAND MINING PROJECT							

**SAND MINING PROJECTS,DISTRICT: BOTAD**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3125/2015	ORDINARY SAND MINING PROJECT							
2	SIA/GJ/MIN/3126/2015	ORDINARY SAND MINING PROJECT							
3	SIA/GJ/MIN/3177/2015	ARIFKHAN R PATHAN	Kalubhar river	Rajpipala/Gadhada	2-00-00/Existing	1000 MT/M	2.5 km		

**SAND MINING PROJECTS, DISTRICT :CHHOTAUDAIPUR**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Proposed use of mineral
1	SIA/GJ/MIN/3067/2015	Abhijat S Patel						

2	SIA/GJ/MIN /3075/2015	Kalpana M Patel						
3	SIA/GJ/MIN /3160/2015	"Mrs. Savitaben Ramsingh bhai Rathva"	Block No.30 1 to 305 Orsang River	Alhadpura / Sankheda	10-00-00/ Existing	4,20,000 Mt/Year	Alhadpura 520 m.	
4	SIA/GJ/MIN /2875/2015	Shri Budhabhai Balabhai Meghani	B NO: 314,3 15,31 6,1,2, 3 lagu	Alhadpura, /Sankheda	10-00-00/ Existing	4,20,000 Mt/Year	Alhadpura 580 m.	
5	SIA/GJ/MIN /3207/2015	Bariya Maheshbhai Chhaganbhai	32 P	Chhuchhapura/ Sankheda	00-52-01/ New	5000 Mt/M	Chhuchhapura 1.00 km	
6	SIA/GJ/MIN /3255/2015	Divyeshkumar Ashokbhai Patel	143,1 45,14 4,146, 147, Orsang River	Pipalsat/ Sankheda	00-90-00/ New	4000 Mt/M	Pipalsat 2.25 km	
7	SIA/GJ/MIN /3275/2015	Mohammed Rafiq Sindhi	9/1 & 12 P Orsang River	Tadkachla/ Pavi Jetpur	07-46-00/ Existing	100000 Mt/Year	Tadkachla 8.50 km	
8	SIA/GJ/MIN /3723/2015	Anilkumar Bhagubhai Patel						

For the proposal Nos: SIA/GJ/MIN/3160/2015, SIA/GJ/MIN/2875/2015 and SIA/GJ/MIN/3275/2015, Shri D.M.Patel informed committee that said proposal is located in Orsang river bed. He informed committee that sand excavation will be done only from dry river bed. It was also represented that no any bridge piers / water intake wells / irrigation structures exist within 500 m distance from boundary of any of above lease area. He explained that sand excavation will be done up to maximum 3 m depth or water level, whichever is less. The committee observed that the lease

holder has proposed to leave adequate setback distance from the river bank so as to avoid river bank erosion. Water sprinkling will be done during loading of material. All the transportation vehicles are proposed to be covered to avoid fugitive emission of fine particles.

During meeting, committee noticed that lease area of the above proposal Nos: SIA/GJ/MIN/3160/2015, SIA/GJ/MIN/2875/2015 and SIA/GJ/MIN/3275/2015 are above 5 hectare however approved mining plan, environment management plan (EMP) and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area are not submitted. During meeting committee asked asst. geologist to submit approved mining plan, environment management plan (EMP) and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area. Upon submission of the said details, committee unanimously decided to take up the proposal Nos: proposal Nos: SIA/GJ/MIN/3160/2015, SIA/GJ/MIN/2875/2015 and SIA/GJ/MIN/3275/2015 for further consideration in one of the upcoming SEAC meeting.

**BLACK TRAP MINING PROJECTS, DISTRICT: CHHOTAUDAIPUR**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3778/2015	Shree Narayan quarry work (Sanjaykumar Indravadan bhatt)							
2	SIA/GJ/MIN/3725/2015	Rainbow Infrastructure	8 paiki	Jaski/ Naswadi	02-23-00/ Existing	2300 MT/M	Jaski 1.31 km		

**BLACK TRAP MINING PROJECTS, DISTRICT: DEVBHUMIDWARKA**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3276/2015	Hitesh Meramanbhai Modhwadia							

**SAND MINING PROJECTS, DISTRICT: GANDHINAGAR**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3837/2015	JAGATSI NH M RATHOD	941 & 942 Sabar mati River	Anodiya/Mansha	3-75-00/ New	500 MT/M	Anodiya 3.20 km		

**BUILDING LIME STONE MINING PROJECTS, DISTRICT: GIRSOMNATH**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3814/2015	Building Lime Stone Mine of Jamalbhai Alarakhabhai Jamroth & Others							
2	SIA/GJ/MIN/3821/2015	Building Lime Stone Mine of Jamalbhai Alarakhabhai Jamroth							

**BLACK TRAP MINING PROJECTS, DISTRICT: JAMNAGAR**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3384/2015	Dayaben Balabhai Rathod							

**BUILDING LIMESTONE MINING PROJECTS, DISTRICT: JUNAGADH**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
------	--------------	--------------	------	-------------	---------	----------------	--------------------	-------------------	-------------------------

1	SIA/GJ/MIN/ 3150/2015	Building Lime Stone Mine of Shree Rajendraku mar Maneklal Shah	191/1 P 44 and 191/1/ P 27	Divasa/ Mangr ol	1-00- 00/ New	2000 MT/M	Divasa 1.75 km		
2	SIA/GJ/MIN/ 3162/2015	Building Lime Stone Mine of Shree Menshibhai Jivabhai Vichhi	157/1 P	Vijapur/ Junaga dh	1-00- 00/ Existing	1645 MT/M	Vijapur 1.00 km		

### SAND MINING PROJECTS, DISTRICT: JUNAGADH

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/ 3154/2015	Sand Mine of Kasambhai Sulemanbhai Basathiya							
2	SIA/GJ/MIN/ 3220/2015	Sand Mine of Mahendra bhai Thakarshi Dholariya	Ube n Rive r	Majejadi/ Junagadh	01-00- 00/ Existing	3000 MT/M	Majejadi 2 km		
3	SIA/GJ/MIN/ 3375/2015	Sand Mine of Nirmalbhai Jashabhai Kuvadiya	Mo npar iya Vok da P	Ghantiyan/ Visavadar	1-00- 00/ Existing	36000 MT/M	Ghantiyan 1.50 km		

### LIME STONE MINING PROJECT, DISTRICT: JUNAGADH

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/ 3152/2015	RAJSHIBHAI RANABHAI JOTVA							

### BLACK TRAP MINING PROJECTS, DISTRICT: JUNAGADH

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3199/2015	Black trap mine of Shree Rameshbhai Karshanbhai Bariya							
2	SIA/GJ/MIN/3760/2015	Black trap Mine of Desurbhai Nathabhai Sutreja							

**BLACK TRAP MINING PROJECTS, DISTRICT: KHEDA**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3000/2015	Jigar Avinash Brambhatt	Opp.895 & 1161	Angadi/Thasra	02-80-00/Existing	120000 MTPA	Angadi 2.55 km		
2	SIA/GJ/MIN/3018/2015	Kashyap Mahendrabhai Brambhatt							
3	SIA/GJ/MIN/3022/2015	Jayaben Mahendrabhai Brambhatt							

**SAND MINING PROJECTS, DISTRICT: KHEDA**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3714/2015	Gopalbhai Somabhai Sodha	79 Vatrak River (Block A)	Khatraj/Mahem davad	2-00-00/New	3525 Mt/M	Khatraj 2.00 km		

2	SIA/GJ/MIN/ 3724/2015	Gopalbhai Somabhai Sodha	40,44, 27,24, 23 & 16 Vatrak Nadi (Block -E)	Khatraj/ Mahem davad	03-30- 00/ New	5834 MT/M	Khatraj 0.65 km		
---	--------------------------	--------------------------------	---	----------------------------	----------------------	--------------	--------------------	--	--

**BLACK TRAP MINING PROJECTS, DISTRICT: KUTCH**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/ 3007/2015	Sadguru Crusher Plant	376 paiki	Sherdi/ Mandvi	1.00. 00/ Existi ng	1000 MT/M	3.4	20 km Kachchh Wild Life	Constru ction
2	SIA/GJ/MIN/ 3009/2015	Virji Pachan Vaghela	141 p	Nana Nakhatra na/ Nakhatra na	1.00. 00/ Existi ng	1000 MT/M	1.3	15 km Chhari Dhandh	Constru ction
3	SIA/GJ/MIN/ 3011/2015	Murji Shivji Mepani	53 p	Kera/ Bhuj	2.00. 00/ Existi ng	2000 MT/M	0.6	20 km Kachchh Wild Life	Constru ction
4	SIA/GJ/MIN/ 3016/2015	Mustak Mamad Jat	116 p	Kojachora /Mandvi	4.00. 00/ Existi ng	2083 MT/M	1.5	25 km Kachchh Wild Life	Constru ction
5	SIA/GJ/MIN/ 3017/2015	Mustak Mamad Jat	116 p	Kojachora /Mandvi	8.00. 00/ Existi ng	4165 MT/M	1.51	25 km Kachchh Wild Life	Constru ction
6	SIA/GJ/MIN/ 3019/2015	Boliya Abdul Rehman Mamad	116 p	Kojachora /Mandvi	1.00. 00/ Exust ing	665 MT/M	1.35	25 km Kachchh Wild Life	Constru ction

7	SIA/GJ/MIN/ 3023/2015	Boliya Abdul Rehman Mamad	116 p	Kojachora /Mandvi	3.27. 04/ Existi ng	2080 MT/M	1.30	25 km Kachchh Wild Life	Constru ction
8	SIA/GJ/MIN/ 3025/2015	Abdul Rehman Boliya	212 p	Nani Tumbdi/ Mundra	8.00. 00/ Existi ng	4165 MT/M	2.91	25 km Kachchh Wild Life	Constru ction
9	SIA/GJ/MIN/ 3028/2015	Mamadhus ain Alimamad Rayma	562 p	Gadhsish a/ Mandvi	1.00. 00/ Existi ng	1000 MT/M	0.62	25 km Kachchh Wild Life	Constru ction
10	SIA/GJ/MIN/ 3030/2015	Khetaji Khiraji Jadeja	8 paiki	Chakar/ Bhuj	2.00. 00/Ex isting	2000 MT/M	1.2	20 km Kachchh Wild Life	Constru ction
11	SIA/GJ/MIN/ 3031/2015	Kishor Manilal Chhabhaiy a	141 p	Nana Nakhatra na/ Nakhatra na	1.00. 00/ Existi ng	1000 MT/M	1.6	15 km Chhari Dhandh	Constru ction
12	SIA/GJ/MIN/ 3032/2015	Kesavlal Manji Chhabhaiy a	141 p	Nana Nakhatra na/ Nakhatra na	1.00. 00/ Existi ng	1000 MT/M	1.3	15 km Chhari Dhandh	Constru ction
13	SIA/GJ/MIN/ 3145/2015	Prakashbh ai Hirjibhai Vagadiya	8 paiki	Chakar/ Bhuj	3.00. 00/Ex isting	8333 MT/M	0.705	25 km Kachchh Wild Life	Constru ction
14	SIA/GJ/MIN/ 3174/2015	Kadar Haji Mamad	219 p	Nana Asambiya / Mandvi	4.90. 00/ Existi ng	6000 MT/M	1.09	25 km Kachchh Wild Life	Constru ction



15	SIA/GJ/MIN/ 3243/2015	Samji Shivji Gorasiya		Bharapar/ Bhuj	2.00. 00/ Existi ng	2000 MT/M	2.45	20 km Kachchh Wild Life	Constru ction
16	SIA/GJ/MIN/ 3247/2015	Sahjanand Crush Metal Ind.	331p	Dhunai/ Mandvi	3.00. 00/ Existi ng	1250 MT/M	1.6	25 km Kachchh Wild Life	Constru ction
17	SIA/GJ/MIN/ 3249/2015	Jadeja Bairajba Punjaji	639p	Kera/ Bhuj	9.90. 00/ Existi ng	2910 MT/M	1.15	25 km Kachchh Wild Life	Constru ction
18	SIA/GJ/MIN/ 3250/2015	Zaru Arjan Naran	671p	Bhuvad/ Anjar	2.68. 80/ Existi ng	1415 MT/M	1.3	20km Ghudkha r wild Ass	Constru ction
19	SIA/GJ/MIN/ 3253/2015	Abdulreh man Mamadku mbhar	344p	Chhasra / Mundra	1.00. 00/ Existi ng	665 MT/M	2.35	23 km Ghudkha r wild Ass	Constru ction
20	SIA/GJ/MIN/ 3295/2015	Velaji Naran Vekariya	331p	Dhunai/ Mandvi	1.00. 00/ Existi ng	1080 MT/M	1.45	25 km Kachchh Wild Life	Constru ction
21	SIA/GJ/MIN/ 3303/2015	Dinesh Velji Maheshwa ri	219 p	Nana Asambiya / Mandvi	2.00. 00/ Existi ng	665 MT/M	1.2	25 km Kachchh Wild Life	Constru ction
22	SIA/GJ/MIN/ 3305/2015	Viren Arvind Jani	496p	Shinay/ Gandhidh am	3.80. 00/ Existi ng	1000 MT/M	<b>0.370</b>	15 km Ghudkha r wild Ass	Constru ction
23	SIA/GJ/MIN/ 3306/2015	Sangvari Stone Crushing Co.	253/1 p	Khirai/ Rapar	3.00. 00/ Existi ng	2080 MT/M	3.0	12 km Ghudkha r wild Ass	Constru ction

24	SIA/GJ/MIN/ 3370/2015	Hemubha Agarsang Jadeja	255 p	Moti Tumbdi/ Mundra	5.39. 33/ Existi ng	1665 MT/M	1.5	25 km Kachchh Wild Life	Constru ction
25	SIA/GJ/MIN/ 3759/2015	Velji Nathu Sorathiya	984p	Anjar	0.40. 00/ Existi ng	1000 MT/M	0.68	14 km Ghudkha r wild Ass	Constru ction
26	SIA/GJ/MIN/ 3761/2015	Velji Nathu Sorathiya	984p	Anjar	4.00. 00/ Existi ng	4000 MT/M	1.70	14 km Ghudkha r wild Ass	Constru ction
27	SIA/GJ/MIN/ 3764/2015	Premji Velji Sorathiya	984p	Anjar	4.00. 00/Ex isting	3000 MT/M	1.50	14 km Ghudkha r wild Ass	Constru ction
28	SIA/GJ/MIN/ 3767/2015	Mahesh Velji Kapdi	984p	Anjar	1.50. 00/Ex isting	2000 MT/M	1.90	14 km Ghudkha r wild Ass	Constru ction

Shri M.D. Chaudhry, Geological Assistant represented proposal Nos: SIA/GJ/MIN/3017/2015, SIA/GJ/MIN/3025/2015, SIA/GJ/MIN/3249/2015 and SIA/GJ/MIN/3370/2015 for black trap mining before the committee. During presentation ,geological assistant mentioned that method of basalt removal involves drilling, blasting, sizing of mineral, etc. Top soil will be stacked separately for green belt development whereas overburden will be removed, stacked and refilled in mined out pits. The proposal does not involve intersection of ground water table. No wastewater generation is envisaged from mining activities. Domestic wastewater will be disposed off through septic tank– soak pit. Arrangement will be made to prevent contamination of surface runoff. Proposed air pollution control measures include use of only controlled blasting, water sprinkling on haul roads, tree plantation in periphery and road sides, etc. It is proposed to convert mined out pits into water reservoirs.

During meeting, committee noticed that lease area of the above proposal Nos: SIA/GJ/MIN/3017/2015, SIA/GJ/MIN/3025/2015, SIA/GJ/MIN/3249/2015 and SIA/GJ/MIN/3370/2015 are above 5 hectare however approved mining plan, environment management plan (EMP) and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area are not submitted. During meeting committee asked asst. geologist to submit approved mining plan, environment management plan (EMP) and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area. Upon submission of the said details, committee

unanimously decided to take up the proposal Nos: SIA/GJ/MIN/3017/2015, SIA/GJ/MIN/3025/2015, SIA/GJ/MIN/3249/2015 and SIA/GJ/MIN/3370/2015 for further consideration in one of the upcoming SEAC meeting.

**SAND MINING PROJECTS, DISTRICT: KUTCH**

Sno.	Proposal No.	Project Name	S NO	Vill,Talu ka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3033/2015	dilipsinh bhikhubha jadeja	<b>Nagmati River</b>	Desalpara Mundra	5.00.00 Existing	5000 MT/M	1.3	25km Kachchh Wild Life	Construction
2	SIA/GJ/MIN/3035/2015	vijaysinh natubha jadeja	<b>Nagmati River</b>	Desalpara Mundra	5.00.00 Existing	5000 MT/M	0.7	25km Kachchh Wild Life	Construction
3	SIA/GJ/MIN/3036/2015	ranjitsinh natubha jadeja	<b>Nagmati River</b>	Desalpara Mundra	5.00.00 Existing	5000 MT/M	<b>0.3</b>	25km Kachchh Wild Life	Construction
4	SIA/GJ/MIN/3093/2015	Ordinary Sand mining project of Dhanraj Karshanbhai Gadhvi	<b>694 paiki Rukmavti river</b>	Godhra Mandvi	3.00.00 New Block	1400 MT/M	0.95	20 km Kachchh Wild Life	Construction
5	SIA/GJ/MIN/3309/2015	sardarsinh lalji jadeja	<b>1317/4 paiki</b>	Shivlakh a Bhachau	2.00.00 Existing	1000 MT/M	1.56	10.5 Km Ghudkhar wild ass	Construction

**BENTONITE MINING PROJECTS, DISTRICT: KUTCH**

Sno.	Proposal No.	Project Name	S NO	Vill,Tal uka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3066/2015	M/s. Manilal Govindji Thacker	420/20 paiki	Pundi Mandvi	2.20.00 New	1250 MT/M	1.87	20 km Kachchh Wild Life	Construction & drilling mud

2	SIA/GJ/MIN/ 3081/2015	ASHAPUR A MINECHE M LTD.							
3	SIA/GJ/MIN/ 3085/2015	ASHAPUR A MINECHE M LTD.							
4	SIA/GJ/MIN/ 3086/2015	Ashapura Minechem Ltd.							
5	SIA/GJ/MIN/ 3095/2015	ASHAPUR A MINECHE M LTD.							
6	SIA/GJ/MIN/ 3100/2015	Ashapura Internatio nal Ltd.							
7	SIA/GJ/MIN/ 3112/2015	R. A. SONGARA	376 paiki	Sherdi  Mandvi	5.00.00  Existing	1000 MT/M	1.04	20 km Kachchh Wild Life	Constru ction & drilling mud
8	SIA/GJ/MIN/ 3252/2015	M. muslim M. aslam & M. iqbal hajiamad	109p	Balach od Nani Abdasa	2.32.70  New- LOI	850 MT/M	0.96	22 km Chhari Dhandh	Constru ction & drilling mud
9	SIA/GJ/MIN/ 3286/2015	Atul Minerals	170/1 & 171/1	Sherdi  Mandvi	3.05.54  Existing	1250 MT/M	2.0	20 km Kachchh Wild Life	Constru ction & drilling mud
10	SIA/GJ/MIN/ 3289/2015	Atul Minerals	171/2	Sherdi  Mandvi	4.69.00  Existing	1250 MT/M	1.8	20 km Kachchh Wild Life	Constru ction & drilling mud
11	SIA/GJ/MIN/ 3371/2015	Valji mithu harijan	99/37 p	Raydha njar  Abdasa	3.00.00  Existing	1500 MT/M	1.75	14 km Ghorad Bird	Constru ction & drilling mud
12	SIA/GJ/MIN/ 3373/2015	harijan harsi thavar							

**SAND STONE MINING PROJECTS, DISTRICT: KUTCH**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3257/2015	Building sand stone project of Nebhabhai Ranmalbhai Parmar	120p & 121/1 Private	Kodki Bhuj	1.34.00 New	250 MT/M	0.62	22 km Kachchh Wild Life	Construction
2	SIA/GJ/MIN/3348/2015	Ashok Meghji Bhudiya	221p	Naranpar Bhuj	1.00.00 Existing	1000 MT/M	4.5	22 km Kachchh Wild Life	Construction

#### BLACK TRAP & BENTONITE MINING PROJECT, DISTRICT: KUTCH

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3299/2015	Halepotra Ibrahim Jafar							

#### WHITE CLAY/CHINA CLAY MINING PROJECT, DISTRICT: KUTCH

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3358/2015	Chinaclay project of Sharad Minechem	130/1 130/2 133/1 133/2 325/1 Private	Nadapa Bhuj	4.75.00 New-LOI	1400 MT/M	0.591	<b><u>9.5 km Kachchh Wild Life</u></b>	Molding & Ceramic Industry
2	SIA/GJ/MIN/3359/2015	Whiteclay /Chinaclay project of Laxmanbhai R Dangar	682 paiki	Nadapa Bhuj	4.00.00 New-LOI	1800 MT/M	3.40	<b><u>12 km Kachchh Wild Life</u></b>	Molding & Ceramic Industry

**BUILDING LIMESTONE MINING PROJECT, DISTRICT: KUTCH**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3300/2015	Dadubha Khimaji Jadeja	290/36	Chavadka Nakhatrana	1.00.00 New-LOI	165 MT/M	5.0	15 km Chhari Dhandh	Construction

**ORDINARY CLAY MINING PROJECT, DISTRICT: MEHSANA**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3020/2015	RAMESHWAR BRICKS COMPANY							
2	SIA/GJ/MIN/3839/2015	AMBICA BRICKS COMPANY							

**ORDINARY SAND MINING PROJECT, DISTRICT: MEHSANA**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3055/2015	New sand mining	20	Sanghpur Vijapur	3.40.00 New	7594 MT/M	Sanghpur 2.28 km		

**SAND STONE MINING PROJECT, DISTRICT: MORBI**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3029/2015	KALPVURU KSHALAND DEVELOPERS PRIVATE LIMITED	80 P 1	Anandpar/Wnkaner	01-00-00 New	1250 MT/M	Anandpar 1.22 km	Periphery of 10 km	

**BLACK TRAP MINING PROJECT,DISTRICT: MORBI**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3318/2015	Black Trap Mine of Shri Sandipkumar Jayantilal Patel	801 P 1	Ghunada/Morbi	8-25-00 /New	2500 MT/M	Meghpar Zala 4KM	Jamkand orna 48.8 km	

Shri M.R.Vala,Asst. Geologist, Dist: Morbi represented above proposal before the committee. He mentioned that method of basalt removal involves drilling, blasting, sizing of mineral, etc. Top soil will be stacked separately for green belt development whereas overburden will be removed, stacked and refilled in mined out pits. The proposal does not involve intersection of ground water table. No wastewater generation is envisaged from mining activities. Domestic wastewater will be disposed off through septic tank– soak pit. Arrangement will be made to prevent contamination of surface runoff. Proposed air pollution control measures include use of only controlled blasting, water sprinkling on haul roads, tree plantation in periphery and road sides, etc. It is proposed to convert mined out pits into water reservoirs.

During meeting, committee noticed that lease area of the above proposal No: SIA/GJ/MIN/3318/2015 is above 5 hectare however approved mining plan, environment management plan (EMP) and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area are not submitted. During meeting committee asked asst. geologist to submit approved mining plan, environment management plan (EMP) and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area. Upon submission of the said details, committee unanimously decided to take up the proposal No: SIA/GJ/MIN/3318/2015 for further consideration in one of the upcoming SEAC meeting.

**BLACK TRAP MINING PROJECT,DISTRICT: NARMADA**

Sno.	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3757/2015	M/s. SHIVABHAI BAPUBHAI TADVI							
2	SIA/GJ/MIN/3774/2015	Y. M. DESAI							

**BLACK TRAP MINING PROJECT, DISTRICT: NAVSARI**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3793/2015	Shreejee Metals	1670	Degam Chikhli	01-45-68 New	200000 MT/year	Degam 1.47 km		

**BLACK TRAP MINING PROJECTS, DISTRICT: PANCHMAHAL**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3139/2015	Bhagirath Quarry Works	974/33	Timba Godhara	3.50.00 Existing	75000 MT/M	Timba 1 km		
2	SIA/GJ/MIN/3301/2015	AMRUT QUARRY	974/5	Pandyapura Timba Godhara	3.50.00 Existing	10000 MT/M	Timba 1.00 km		
3	SIA/GJ/MIN/3372/2015	AMRUT QUARRY	974/26	Pandyapura Timba Godhara	03-25-26 Existing	10000 MT/M	Timba 1 km		
4	SIA/GJ/MIN/3484/2015	AMRUT QUARRY C/O JAYESH M PATEL	974/36P 3,974/3 6P4, 974/56P 2	Pandyapura Timba Godhara	6-00-00 Existing	40000 MT/M	Timba 1 km		

For the proposal No: SIA/GJ/MIN/3484/2015, Shri J.R.Savner, Geological Assistant, Dist:Panchmahal informed the committee that method of basalt removal involves drilling, blasting, sizing of mineral, etc. Top soil will be stacked separately for green belt development whereas overburden will be removed, stacked and refilled in mined out pits. Proposals do not involve intersection of ground water table. No wastewater generation is envisaged from mining activities. Domestic wastewater will be disposed off through septic tank– soak pit. Arrangement will be made to prevent contamination of surface runoff. Proposed air pollution control measures



include use of only controlled blasting, water sprinkling on haul roads, tree plantation in periphery and road sides, etc. It is proposed to convert mined out pits into water reservoirs.

During meeting, committee noticed that lease area of the above proposal No: SIA/GJ/MIN/3484/2015 is above 5 hectare however approved mining plan, environment management plan (EMP) and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area are not submitted. During meeting committee asked asst. geologist to submit approved mining plan, environment management plan (EMP) and details regarding formation of cluster for homogeneous minerals within 500 meter radius from the outer periphery of the lease area. Upon submission of the said details, committee unanimously decided to take up the proposal No: SIA/GJ/MIN/3484/2015 for further consideration in one of the upcoming SEAC meeting.

#### **SAND MINING PROJECTS, DISTRICT: PANCHMAHAL**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3124/2015	Nishant Traders	S.No.3, Block No.4 Panam River	Ramji-ni-Nal Shahe ra	2.50.00 New	100000 MT/year	Ramji-Ni-Nal 1.5 km		
2	SIA/GJ/MIN/3187/2015	Sitaji Jethaji Vanzara	106 Panam River	Undara Shahe ra	3-00-00 New	8000 MT/M	Ramji-Ni-Nal 1 km		

#### **ORDINARY CLAY MINING PROJECTS, DISTRICT: PATAN**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3728/2015	Pakiza Bricks							
2	SIA/GJ/MIN/3729/2015	Supreme Bricks							
3	SIA/GJ/MIN/3840/2015	Super Bricks							

#### **BUILDING LIME STONE MINING PROJECTS, DISTRICT: PORBANDAR**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3056/2015	Building Lime Stone Mine of Hardasbhai Merubhai Odedara	1/11 P 2	Miyani Porbandar	1-00-00 New	9870 TPA	Miyani 1.30 km		
2	SIA/GJ/MIN/3121/2015	Building Lime Stone Mine of Hardasbhai Merubhai Odedara	1/4 P 2, 1/4 P 4	Miyani Porbandar	1-00-00 New	1500 MT/M	Bhavapara 850 Meter		

**SAND MINING PROJECT, DISTRICT: PORBANDAR**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3244/2015	segras ordinary sand of rabari karshan b	133 to 145 Bhadar Nadi Patt	Segras Kutiyana	03-00-00 New	30000 TPA	Segras 1.60 km		

**SAND MINING PROJECT, DISTRICT: RAJKOT**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3294/2015	Jyotiben Jitendrabhai Kathiriya	Bhadar Nadi Pat	Ishwariya Jamkandorana	01-00-00 Existing	3500 MT/M	Ishwariya 2.00 km		

**BLACK TRAP MINING PROJECTS, DISTRICT: RAJKOT**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3304/2015	Bipinbhai Mohanbhai Patel	594/P2/P2/P2 P	Jetpur Jetpur	01-77-05 New	150000 TPA	Jetpur 4-00 km		
2	SIA/GJ/MIN/3324/2015	LAVKESHBHAI POPATBH	273 P32	Bhankh	01-30-00	15000	Bhankh		

		AI DADHANI A		Upleta	New	TPM	2.00 km		
3	SIA/GJ/MIN/3776/2015	Masribhai Maldebhai Parmar	300 P	Pal Lodhika	02-00-00 Existing	100000 TPA	Pal 2.15 km		

**BLACK TRAP MINING PROJECT, DISTRICT: SABARKANTHA**

Sno.	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3614/2015	Black trap mining project							

**SAND MINING PROJECTS, DISTRICT: SABARKANTHA**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3043/2015	Jetavet Dharmendarsingh Pratapsinh	Ghuav Nadi pat	Sherpur Idar	00-54-00 Existing	6750 MT/M	Sherpur 1.42 km		
2	SIA/GJ/MIN/3269/2015	Gangaji Naraji Vanzara	426 P (Pvt. Land)	Jorapur Himatnagar	1-46-70 Existing	6750 MT/M	Jorapur 1.61 km		

**SILICA SAND MINING PROJECTS, DISTRICT: SABARKANTHA**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3812/2015	Silica Sand mine							
2	SIA/GJ/MIN/3822/2015	Silica Sand mine							

**GRANITE MINING PROJECTS - DISTRICT SABARKANTHA**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3133/2015	Nilesh a.patel	564 P	Oda Idar	01-10-00 Existing	6750 MT/M	Oda 5.03 km		
2	SIA/GJ/MIN/3745/2015	Gem Ashapura Granite							
3	SIA/GJ/MIN/3748/2015	Gem Ashapura Granite	129/P	Laloda Idar	3-00-00 Existing	6750 MT/M	La;oda 2.00 km		
4	SIA/GJ/MIN/3752/2015	Gem Ashapura Granite	368 P	Santol idar	3-00-00 Existing	6750 MT/M	Santol 2.00 km		

**SAND MINING PROJECTS, DISTRICT: SURAT**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3045/2015	Renukaben Pravinbhai Prajapati(Widow of Pravinbhai Prajapati)							
2	SIA/GJ/MIN/3088/2015	Nayanaben Ureshbhai Kanthariya	Opp.31, 40 Tapi River	Kosadi Mandvi	01-50-00 New	36000 TPA	Kosadi 1.1 km		
3	SIA/GJ/MIN/3216/2015	Hemantsinh I. Chavda	721,722 Tapi River	Baudhan Bardoli	02-00-00 Existing	15000 Mt/Year	Baudhan 1.6 km		
4	SIA/GJ/MIN/3239/2015	Surendrasi nh Ishwarsinh Chavda	719,720 Tapi River	Baudhan Bardoli	02-40-00 Existing	16000 Mt/Year	Baudhan 1.73 km		

**BLACK TRAP MINING PROJECTS, DISTRICT: SURAT**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of
-----	--------------	--------------	------	--------------	---------	----------------	--------------------	-------------------	-----------------

									mineral
1	SIA/GJ/MIN/ 3097/2015	SHREE SAI STONE QUARRY	224	Zab Mancvi	01-20- 00 Existing	28000 Mt/Year	Jharpan @ 0.69 km		
2	SIA/GJ/MIN/ 3225/2015	PARSHOT TAM MOCHADA STONE QUARRY	106	Kantvav Mangrol	02-47- 35 New	8333.33 MT/M	Zankhvav 2.71 km		

**BLACK TRAP MINING PROJECTS, DISTRICT: SURENDRANAGAR**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/ 3138/2015	Sujan Chanakya Desai							
2	SIA/GJ/MIN/ 3194/2015	PUJAN CHANAKYA A DESAI							
3	SIA/GJ/MIN/ 3280/2015	GAMBHIR SINH AGARSINH RATHOD	194 P	Thoriyali Sayla	1-77-83 Existing	30000 Mt/Year	Thoriyali- 1.45 km		

**SILICA SAND MINING PROJECT, DISTRICT: SURENDRANAGAR**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/ 3235/2015	Silica Sand Mine of Vishal S. Shukla at Devsar	83 P	Devsar Chotila	03-62- 00 Existing	2500 MT/M	Devsar 1.5 km	2.5 km Mandvi wid Reserve forest	

**SAND STONE MINING PROJECT, DISTRICT: SURENDRANAGAR**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/ 3808/2015	Tejalben Hiteshbhai	155	Dhrangadh	02-00-	20000 MT/yea	Dhrangadh	Wild Ass Sanctury	

		Trivedi	7 P	ra Dhrangadh ra	00 Existing	r	ra 1.94 Km	12.90 km	
--	--	---------	-----	-----------------------	----------------	---	------------	----------	--

**SAND MINING PROJECT, DISTRICT: TAPI**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3046/2015	Girishbhai Dayabhai Oad							
2	SIA/GJ/MIN/3181/2015	RAMESHBHAI UKKADBHAI PATEL							
3	SIA/GJ/MIN/3193/2015	Rameshbhai Thakorbhai Patel							
4	SIA/GJ/MIN/3198/2015	RAMESHBHAI UKKADBHAI PATEL							
5	SIA/GJ/MIN/3742/2015	Narendrabhai Nanubhai Patel	259.26 0,271,273,274	Virpor Valod	01-00-00/ Existing	3900 MT/M	Buhari 0.7 km		
6	SIA/GJ/MIN/3768/2015	Jayantibhai Jinabhai Patel	251 to 254,257	Virpor Valod	01-50-00 Existing	3900 MT/M	Buhari 0.7 km		

**BLACK TRAP MINING PROJECTS, DISTRICT: TAPI**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3147/2015	Rajnikant Gordhanbhai Chaniyara	Block No.66 P	Bamanamal Najik Vyara	03-00-53 New	30000 MT/M	Bamanamal Najik 0.74 km		
2	SIA/GJ/MIN/3273/2015	Shanti Stone Quarry	Block No.91 P	Vaghpani Vyara	01-93-16	20000 MT/M	Vaghpani 0.84 km		

					Existing				
--	--	--	--	--	----------	--	--	--	--

**SAND MINING PROJECTS,DISTRICT: VADODARA**

Sno	Proposal No.	Project Name	S NO	Vill, Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3037/2015	Gohil Vajesinh Raysinh	576 Mahi River	Fajalpur Vadodara	1-00-00 Existing	20000 TPa	Fajalpur 1.7 km		
2	SIA/GJ/MIN/3039/2015	Gohil Vajesinh Raysinh	5488, 549 Mahi River	Fajalpur Vadodara	1-00-00 Existing	20000 TPA	Fajalpur 1.7 km		
3	SIA/GJ/MIN/3713/2015	Girishbhai Dahyabhai Oad							

**BLACK TRAP MINING PROJECTS,DISTRICT: VALSAD**

Sno	Proposal No.	Project Name	S NO	Vill,Taluka	Hectare	Rate of mining	Nearest Habitation	Nearest Sanctuary	Proposed use of mineral
1	SIA/GJ/MIN/3140/2015	SHRI SAI STONE COMPANY	169,170	Nani Vahiyal Dharampur	01-00-00 Existing	8000 MT/M	Nani Vahiyal 1.00 km		
2	SIA/GJ/MIN/3264/2015	DAHAYABHAI TRIBHUVA NDAS PATEL	48/P	Nanapondha Kaprada	01-46-75 New	100000 Mt/Year	Nanapondha 1.35 km		

**MAJOR MINING PROPOSALS**

**1. M/s. MAHESHKUMAR C. MAHETA & KIRIT C. MAHETA, (Bauxite mine, Lease area: 05.00.00 Ha), S.No. 30 OLD/ 732 New Paiky of Village: Ran,Ta:Kalyanpur, Dist: Devbhumi Dwarka (SIA/GJ/MIN/3254/2015)**

The project proponent has applied for their bauxite mine located at Survey No.\_30 OLD/ 732 New Paiky of Village: Ran,Ta:Kalyanpur, Dist: Devbhumi Dwarka. The mine lease area is 05.00.00 Ha and proposed rate of mining is 25,000 TPA of Bauxite. The proposal falls in project / activity no. 1(a) of the Schedule of the EIA Notification, 2006 and as the lease area is less than 50 Hectares, it falls under category B.

The technical presentation of the project included project summary,location detail of project with map,detaila of lease allotment to the project proponent, environment settings,, google image of site & surrounding, site photographs, details of lease, environment management plan, mining method,water requirement, important features surrounding the mine, details of back filled area, flora and fauna, CSR Activites, approved mining plan, current status of air and ground water quality etc.

After detailed deliberation, considering the scale of project, it was categorized as B2 and following additional information was sought for appriaisal of the project.

1. Project site specific details such as distance of the project site from the nearest (1) Village (2) Water Body : River / Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary / Reserve Forest / Protected Forest. A map indicating the aerial distance of the lease area from these entities.
2. Copies of all requisite permissions including permissions from District Collector, Commissioner of Geology & Mining, Indian Bureau of Mines ( Approved Mining Plan), GPCB etc.
3. Land use plan of the mine lease area should be prepared to encompass pre-operational, operational and post operational phases.
4. Approved mining plan including progressive mine closure plan with recommendations.
5. Details of peripheral drains to arrest the inflow of surface runoff in the quarry area and garland drains for arresting run off from the overburden / reject dumps. Specific measures to ensure that contaminated runoff from mine terrain will not lead to the rivers / natural drains / adjoining farms, in any case.
6. Technical justification for no requirement of blasting. Notarized undertaking stating that no blasting shall be carried out.
7. Impact due to fugitive emissions including that because of transportation activities and the mitigation measures thereof need to be elaborated.
8. Dust suppression measures & control measures at worker level & proposed PPE to workers.
9. Detailed overburden and mine rejects management plan.
10. Detailed write up and drawing of mine closure plan. Water reservoirs to be constructed after closure of mine should be in proper shape and having proper fencing.
11. Details on back filling system of the exhausted mine. Details on compaction of back filling layer.
12. The reclamation plan, post mine land use and progressive green belt development plan along with year wise financial outlay shall be included.



13. The water requirement for the project along with the source and availability as well as necessary permissions from the competent authority for drawl of groundwater, if any.
14. Details of the water conservation measures proposed to be adopted in the project should be highlighted and water usage for the accumulation during operational and post operational stages of mine.
15. Information on site elevation, working depth, ground water table should be provided. Based on actual monitored data, it may clearly be shown whether working will intersect ground water.
16. Check list of flora and fauna in the study area and impacts of the project on the same along with mitigation measures.
17. Occupational health impact of the project especially during manual operations in the work area and the mitigation measures proposed along with the commitment of the project proponent for implementation of the mitigation measures.
18. Plan for periodic medical examination of the mine workers.
19. Details of the basic amenities, infrastructure facilities, PPEs etc. to be provided to the mine workers.
20. Detailed Mitigation Plan and the Environmental Management Plan with respect to all likely impacts of the project activities. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
21. An action plan showing list of the activities along with the fund allocation shall be submitted based on the socio-economic profile of the surrounding villages and need base field assessment.
22. Details regarding existing green belt development activity carried out during past years. A detailed future greenbelt development plan including type of species, number of trees, budgetary allocation, etc.
23. Details of fencing, tree plantation existing and to be done in the existing mined area.
24. Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof.
25. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed.  
(b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed.
26. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
27. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed.

The project proponent shall submit aforesaid additional information addressing each point in details. Upon submission of the said details, Committee unanimously decided to take up the proposal in one of the upcoming SEAC meeting for appraisal.

**2. M/s. MINERALS & MINERALS CORPORATION,(Bauxite mine, Lease area: 01.30.51 Ha), S.No.: 421 Paiky,Village: Ran,Ta:Kalyanpur, Dist: Devbhumi Dwarka. (SIA/GJ/MIN/3245/2015).**

The project proponent has applied for their bauxite mine located at Survey No.:421 paiky, Village: Ran,Ta:Kalyanpur, Dist: Devbhumi Dwarka. The mine lease area is 01.30.51 Ha and proposed rate of mining is **20,000 TPA** of Bauxite. The proposal falls in project / activity no. 1(a) of the Schedule of the EIA Notification, 2006 and as the lease area is less than 50 Hectares, it falls under category B.

The technical presentation of the project included project summary, location detail of project with map,detaila of lease allotment to the project proponent, environment settings,, google image of site & surrounding, site photographs, details of lease, environment management plan, mining method,water requirement, important features surrounding the mine, details of back filled area, flora and fauna, CSR Activites, approved mining plan, current status of air and ground water quality etc.

After detailed deliberation, considering the scale of project, it was categorized as B2 and following additional information was sought for appraisal of the project.

1. Project site specific details such as distance of the project site from the nearest (1) Village (2) Water Body : River / Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary / Reserve Forest / Protected Forest. A map indicating the aerial distance of the lease area from these entities.
2. Copies of all requisite permissions including permissions from District Collector, Commissioner of Geology & Mining, Indian Bureau of Mines ( Approved Mining Plan), GPCB etc.
3. Land use plan of the mine lease area should be prepared to encompass pre-operational, operational and post operational phases.
4. Approved mining plan including progressive mine closure plan with recommendations.
5. Details of peripheral drains to arrest the inflow of surface runoff in the quarry area and garland drains for arresting run off from the overburden / reject dumps. Specific measures to ensure that contaminated runoff from mine terrain will not lead to the rivers / natural drains / adjoining farms, in any case.
6. Technical justification for no requirement of blasting. Notarized undertaking stating that no blasting shall be carried out.
7. Impact due to fugitive emissions including that because of transportation activities and the mitigation measures thereof need to be elaborated.
8. Dust suppression measures & control measures at worker level & proposed PPE to workers.
9. Detailed overburden and mine rejects management plan.
10. Detailed write up and drawing of mine closure plan. Water reservoirs to be constructed after closure of mine should be in proper shape and having proper fencing.
11. Details on back filling system of the exhausted mine. Details on compaction of back filling layer.

12. The reclamation plan, post mine land use and progressive green belt development plan along with year wise financial outlay shall be included.
13. The water requirement for the project along with the source and availability as well as necessary permissions from the competent authority for drawl of groundwater, if any.
14. Details of the water conservation measures proposed to be adopted in the project should be highlighted and water usage for the accumulation during operational and post operational stages of mine.
15. Information on site elevation, working depth, ground water table should be provided. Based on actual monitored data, it may clearly be shown whether working will intersect ground water.
16. Check list of flora and fauna in the study area and impacts of the project on the same along with mitigation measures.
17. Occupational health impact of the project especially during manual operations in the work area and the mitigation measures proposed along with the commitment of the project proponent for implementation of the mitigation measures.
18. Plan for periodic medical examination of the mine workers.
19. Details of the basic amenities, infrastructure facilities, PPEs etc. to be provided to the mine workers.
20. Detailed Mitigation Plan and the Environmental Management Plan with respect to all likely impacts of the project activities. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
21. An action plan showing list of the activities along with the fund allocation shall be submitted based on the socio-economic profile of the surrounding villages and need base field assessment.
22. Details regarding existing green belt development activity carried out during past years. A detailed future greenbelt development plan including type of species, number of trees, budgetary allocation, etc.
23. Details of fencing, tree plantation existing and to be done in the existing mined area.
24. Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof.
25. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed.(b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed.
26. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
27. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed.

The project proponent shall submit aforesaid additional information addressing each point in details. Upon submission of the said details, Committee unanimously decided to take up the proposal in one of the upcoming SEAC meeting for appraisal.

**3. M/s. MINERALS & MINERALS CORPORATION,(Bauxite mine, Lease area: 01.21.41 Ha), S.No.: 171,Village: Nandana,Ta:Kalyanpur, Dist: Devbhumi Dwarka. (SIA/GJ/MIN/3248/2015).**

The project proponent has applied for their bauxite mine located at .No.: 171,Village: Nandana,Ta:Kalyanpur, Dist: Devbhumi Dwarka The mine lease area is 01.21.41 Ha and proposed rate of mining is **15,000 TPA** of Bauxite. The proposal falls in project / activity no. 1(a) of the Schedule of the EIA Notification, 2006 and as the lease area is less than 50 Hectares, it falls under category B.

The technical presentation of the project included project summary, location detail of project with map,detaila of lease allotment to the project proponent, environment settings,, google image of site & surrounding, site photographs, details of lease, environment management plan, mining method,water requirement, important features surrounding the mine, details of back filled area, flora and fauna, CSR Activites, approved mining plan, current status of air and ground water quality etc.

After detailed deliberation, considering the scale of project, it was categorized as B2 and following additional information was sought for appraisal of the project.

1. Project site specific details such as distance of the project site from the nearest (1) Village (2) Water Body : River / Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary / Reserve Forest / Protected Forest. A map indicating the aerial distance of the lease area from these entities.
2. Copies of all requisite permissions including permissions from District Collector, Commissioner of Geology & Mining, Indian Bureau of Mines ( Approved Mining Plan), GPCB etc.
3. Land use plan of the mine lease area should be prepared to encompass pre-operational, operational and post operational phases.
4. Approved mining plan including progressive mine closure plan with recommendations.
5. Details of peripheral drains to arrest the inflow of surface runoff in the quarry area and garland drains for arresting run off from the overburden / reject dumps. Specific measures to ensure that contaminated runoff from mine terrain will not lead to the rivers / natural drains / adjoining farms, in any case.
6. Technical justification for no requirement of blasting. Notarized undertaking stating that no blasting shall be carried out.
7. Impact due to fugitive emissions including that because of transportation activities and the mitigation measures thereof need to be elaborated.
8. Dust suppression measures & control measures at worker level & proposed PPE to workers.
9. Detailed overburden and mine rejects management plan.
10. Detailed write up and drawing of mine closure plan. Water reservoirs to be constructed after closure of mine should be in proper shape and having proper fencing.
11. Details on back filling system of the exhausted mine. Details on compaction of back filling layer.

12. The reclamation plan, post mine land use and progressive green belt development plan along with year wise financial outlay shall be included.
13. The water requirement for the project along with the source and availability as well as necessary permissions from the competent authority for drawl of groundwater, if any.
14. Details of the water conservation measures proposed to be adopted in the project should be highlighted and water usage for the accumulation during operational and post operational stages of mine.
15. Information on site elevation, working depth, ground water table should be provided. Based on actual monitored data, it may clearly be shown whether working will intersect ground water.
16. Check list of flora and fauna in the study area and impacts of the project on the same along with mitigation measures.
17. Occupational health impact of the project especially during manual operations in the work area and the mitigation measures proposed along with the commitment of the project proponent for implementation of the mitigation measures.
18. Plan for periodic medical examination of the mine workers.
19. Details of the basic amenities, infrastructure facilities, PPEs etc. to be provided to the mine workers.
20. Detailed Mitigation Plan and the Environmental Management Plan with respect to all likely impacts of the project activities. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
21. An action plan showing list of the activities along with the fund allocation shall be submitted based on the socio-economic profile of the surrounding villages and need base field assessment.
22. Details regarding existing green belt development activity carried out during past years. A detailed future greenbelt development plan including type of species, number of trees, budgetary allocation, etc.
23. Details of fencing, tree plantation existing and to be done in the existing mined area.
24. Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof.
25. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed.(b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed.
26. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
27. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed.

The project proponent shall submit aforesaid additional information addressing each point in details. Upon submission of the said details, Committee unanimously decided to take up the proposal in one of the upcoming SEAC meeting for appraisal.

**4. M/s. MINERALS & MINERALS CORPORATION,(Bauxite mine, Lease area: 01.38.61 Ha), S.No.: 419,Village: Ran,Ta:Kalyanpur, Dist: Devbhumi Dwarka. (SIA/GJ/MIN/3251/2015).**

The project proponent has applied for their bauxite mine located at .No.: 419,Village: Ran,Ta:Kalyanpur, Dist: Devbhumi Dwarka The mine lease area is 01.38.61 Ha and proposed rate of mining is **15,000 TPA** of Bauxite. The proposal falls in project / activity no. 1(a) of the Schedule of the EIA Notification, 2006 and as the lease area is less than 50 Hectares, it falls under category B.

The technical presentation of the project included project summary, location detail of project with map,detaila of lease allotment to the project proponent, environment settings,, google image of site & surrounding, site photographs, details of lease, environment management plan, mining method,water requirement, important features surrounding the mine, details of back filled area, flora and fauna, CSR Activites, approved mining plan, current status of air and ground water quality etc.

After detailed deliberation, considering the scale of project, it was categorized as B2 and following additional information was sought for appraisal of the project.

1. Project site specific details such as distance of the project site from the nearest (1) Village (2) Water Body : River / Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary / Reserve Forest / Protected Forest. A map indicating the aerial distance of the lease area from these entities.
2. Copies of all requisite permissions including permissions from District Collector, Commissioner of Geology & Mining, Indian Bureau of Mines ( Approved Mining Plan), GPCB etc.
3. Land use plan of the mine lease area should be prepared to encompass pre-operational, operational and post operational phases.
4. Approved mining plan including progressive mine closure plan with recommendations.
5. Details of peripheral drains to arrest the inflow of surface runoff in the quarry area and garland drains for arresting run off from the overburden / reject dumps. Specific measures to ensure that contaminated runoff from mine terrain will not lead to the rivers / natural drains / adjoining farms, in any case.
6. Technical justification for no requirement of blasting. Notarized undertaking stating that no blasting shall be carried out.
7. Impact due to fugitive emissions including that because of transportation activities and the mitigation measures thereof need to be elaborated.
8. Dust suppression measures & control measures at worker level & proposed PPE to workers.
9. Detailed overburden and mine rejects management plan.
10. Detailed write up and drawing of mine closure plan. Water reservoirs to be constructed after closure of mine should be in proper shape and having proper fencing.
11. Details on back filling system of the exhausted mine. Details on compaction of back filling layer.

12. The reclamation plan, post mine land use and progressive green belt development plan along with year wise financial outlay shall be included.
13. The water requirement for the project along with the source and availability as well as necessary permissions from the competent authority for drawl of groundwater, if any.
14. Details of the water conservation measures proposed to be adopted in the project should be highlighted and water usage for the accumulation during operational and post operational stages of mine.
15. Information on site elevation, working depth, ground water table should be provided. Based on actual monitored data, it may clearly be shown whether working will intersect ground water.
16. Check list of flora and fauna in the study area and impacts of the project on the same along with mitigation measures.
17. Occupational health impact of the project especially during manual operations in the work area and the mitigation measures proposed along with the commitment of the project proponent for implementation of the mitigation measures.
18. Plan for periodic medical examination of the mine workers.
19. Details of the basic amenities, infrastructure facilities, PPEs etc. to be provided to the mine workers.
20. Detailed Mitigation Plan and the Environmental Management Plan with respect to all likely impacts of the project activities. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
21. An action plan showing list of the activities along with the fund allocation shall be submitted based on the socio-economic profile of the surrounding villages and need base field assessment.
22. Details regarding existing green belt development activity carried out during past years. A detailed future greenbelt development plan including type of species, number of trees, budgetary allocation, etc.
23. Details of fencing, tree plantation existing and to be done in the existing mined area.
24. Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof.
25. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed.(b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed.
26. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
27. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed.

The project proponent shall submit aforesaid additional information addressing each point in details. Upon submission of the said details, Committee unanimously decided to take up the proposal in one of the upcoming SEAC meeting for appraisal.

## REFER BACK PROPOSALS

Sr. No.	Proposal No.	Project Name	Sr. No. Village/ Taluka/ Dist.	Project Proponent Name	Area in Hectare	Rate of Mining	Name of River	Distance of Nearest habitation
1	SIA/GJ/MIN/2219/2015	KIRANSINH MANGAJI SOLANKI	Madadra Kathlal Kheda	KIRANSINH MANGAJI SOLANKI	2.00.00 Existing	15000 TPA	Vatrak	Madadra 1km

The above proposal was considered in SEAC meeting held on 27-10-2015 and recommended vide letter No: EIA-10-2014-M-6823/7298 dated 27-11-2015. During meeting of SEIAA held on 30-11-2015, the said proposal was referred back to SEAC vide letter NO: SEIAA/GUJ/EC/1(a)/4214/2015 dated 30-11-2015 asking to verify distance of lease area from the nearest human habitation along with exact discrepancy in data as has been mentioned by the committee.

The above proposal was considered in the SEAC meeting held on 19-01-2016. Committee noticed that details of location of school as mentioned in the project details submitted by the geologist was not confirming to the actual location. Committee asked geologist to reconfirm all the entities mentioned in the project checklist submitted by the geologist including the nearest human habitation from the proposed lease area.

Committee also noticed that Ministry of Environment, Forest & Climate Change, Government of India vide their Notification No:S.O.141 (E) dated 15.01.2016 has delegated powers for the grant of Environment Clearance for mining projects having lease area up to 5 hectares are delegated to the District Level Environment Impact Assessment Authority (DEIAA). Further, the Ministry of Environment, Forest & Climate Change, Government of India has also vide their Notification No: S.O. 190 (E) dated 20.01.2016 constituted the District Level Environment Impact Assessment Authority (DEIAA) and District Level Expert Appraisal Committee (DEAC) for this purpose. Committee noted that lease area of the above proposal is less than 5 hectare and decided to transfer this proposal to DEIAA.

### **(2).Parmar Bapalsinh Dilubhai, S NO: 205/p,Vill:Muli,Dist:Surendranagar**

SR NO	PROPOSAL DETAILS	LOCATION	PROJECT PROPONENT NAME	AREA IN HECTARE	ADDRESS/ VILLAGE	RATE OF MINING	NEAREST HUMAN HABITATION	NAME OF RIVER
1	SIA/GJ/MIN/805/2015	District:Surendranagar Tehsil:Muli	PARMAR BAPALALSINH DILUBHA	04.90.00 New	205/p Muli	40,000 Mt/M	muli, 0.30km	Bhogavo



The above proposal was considered in SEAC meeting held on 08-12-2015 and recommended vide letter No: EIA-10-2014-M-6823/7443 dated 16-12-2015. During meeting of SEIAA held on 19-12-2015, the said proposal was referred back to SEAC vide letter NO: SEIAA/GUJ/EC/1(a)/4373/2015 dated 23-12-2015 asking to verify the distance of lease area from the nearest human habitation.

The above proposal was considered in the SEAC meeting held on 19-01-2016. Committee noticed that the nearest human habitation from the proposed lease area falls within 500 meter. After deliberation, committee unanimously decided to ask geologist to reconfirm and submit details of the nearest human habitation from the proposed lease area.

Committee also noticed that Ministry of Environment, Forest & Climate Change, Government of India vide their Notification No:S.O.141 (E) dated 15.01.2016 has delegated powers for the grant of Environment Clearance for mining projects having lease area up to 5 hectares are delegated to the District Level Environment Impact Assessment Authority (DEIAA). Further, the Ministry of Environment, Forest & Climate Change, Government of India has also vide their Notification No: S.O. 190 (E) dated 20.01.2016 constituted the District Level Environment Impact Assessment Authority (DEIAA) and District Level Expert Appraisal Committee (DEAC) for this purpose. Committee noted that lease area of the above proposal is less than 5 hectare and decided to transfer this proposal to DEIAA

**(3).Mahavirsinh Ranjitsinh Zala,S NO: 397/p, Vill:Sauka,Ta: Limbdi, Dist:Surendranagar**

SR NO	PROPOSAL DETAILS	LOCATION	PROJECT PROPONENT NAME	AREA IN HECTA ARE	ADDRESS/ VILLAGE	RATE OF MINING	NEAREST HUMAN HABITATION	NAME OF RIVER
1	SIA/GJ/MIN/719/2015	District:Surendranagar Tehsil:Muli	MAHAVIRSINH RANJITSINH ZALA	1.00.00 New	397/p Sauka	5000 TPA	0.50km , sauka	Bhogavo

The above proposal was considered in SEAC meeting held on 08-12-2015 and recommended vide letter No: EIA-10-2014-M-6823/7443 dated 16-12-2015. During meeting of SEIAA held on 19-12-2015, the said proposal was referred back to SEAC vide letter NO: SEIAA/GUJ/EC/1(a)/4369/2015 dated 23-12-2015 asking to verify the distance of lease area from the nearest human habitation.

The above proposal was considered in the SEAC meeting held on 19-01-2016. Committee noticed that the nearest human habitation from the proposed lease area falls within 500 meter. After deliberation, committee unanimously decided to ask geologist to reconfirm and submit details of the nearest human habitation from the proposed lease area.

Committee also noticed that Ministry of Environment, Forest & Climate Change, Government of India vide their Notification No:S.O.141 (E) dated 15.01.2016 has delegated powers for the grant of Environment Clearance for mining projects having lease area up to 5 hectares are delegated to the District Level Environment Impact Assessment Authority (DEIAA). Further, the Ministry of Environment, Forest & Climate Change, Government of India has also vide their Notification No: S.O. 190 (E) dated 20.01.2016 constituted the District Level Environment Impact Assessment Authority (DEIAA) and District Level Expert Appraisal Committee (DEAC) for this purpose. Committee noted that lease area of the above proposal is less than 5 hectare and decided to transfer this proposal to DEIAA.

**(4).Girishbhai Dahyabhai Oad,Vill: Govindpur,Ta: Sankheda, Dist:Chotaudepur.**

Sn o.	Proposal No.	Project Name	Survey No.	Vill.Ta	District	Hectare	RO M	Name Of River	Nearest Human Habitation	Proposed Use
1	SIA/GJ/MIN/3705/2015	Girishbhai Dahyabhai Oad	84,85,88	Govindpura /Sankheda (Existing)	CHHOTATAUDAIPUR	02-00-00 Existing	18200 Mt/M	Orsang	Govindpura 0.33 KM	Construction

The above proposal was considered in SEAC meeting held on 08-12-2015 and recommended vide letter No: EIA-10-2014-M-6823/7437 dated 16-12-2015. During meeting of SEIAA held on 19-12-2015, the said proposal was referred back to SEAC vide letter NO: SEIAA/GUJ/EC/1(a)/4337/2015 dated 23-12-2015 asking to verify the distance of lease area from the nearest human habitation.

The above proposal was considered in the SEAC meeting held on 19-01-2016. Committee noticed that the nearest human habitation from the proposed lease area falls within 500 meter. After deliberation, committee unanimously decided to ask geologist to reconfirm and submit details of the nearest human habitation from the proposed lease area.

Committee also noticed that Ministry of Environment, Forest & Climate Change, Government of India vide their Notification No:S.O.141 (E) dated 15.01.2016 has delegated powers for the grant of Environment Clearance for mining projects having lease area up to 5 hectares are delegated to the District Level Environment Impact Assessment Authority (DEIAA). Further, the

Ministry of Environment, Forest & Climate Change, Government of India has also vide their Notification No: S.O. 190 (E) dated 20.01.2016 constituted the District Level Environment Impact Assessment Authority (DEIAA) and District Level Expert Appraisal Committee (DEAC) for this purpose. Committee noted that lease area of the above proposal is less than 5 hectare and decided to transfer this proposal to DEIAA

**5.0 M/S Saurashtra Chemicals Limited, S NO: 2/9 part, Village: Dharampur, Ta: Ranavav, Dist: Porbandar, Gujarat (Dharampur-Kajawadri Lime stone Mine, Area: 40.47 Ha).**

During meeting of SEIAA held on 31.12.2015, various aspects of the project was discussed in detail and the proposal was referred back to SEAC to verify the additional information sought during the SEAC meeting dated 08/12/2015.

During SEAC meeting held on 19/01/2016, the above proposal was considered. In the meeting, It was clarified that the above proposal was appraised during the meeting of SEAC held on 22.09.2015 and additional information was sought by SEAC in the said meeting and not sought in SEAC meeting held on 08.12.2015 which was mentioned in recommendation letter No: EIA-10-2015-7080-7510 dated 23 Dec 2015.

Additional information sought from the project proponent is as under:

1. Detailed point wise compliance report of the conditions mentioned in the License issued to the project proponent by Chief Controller of Explosive vide letter No: E/HQ/GJ/22/38(E445) dated 03/06/2014 including details of safeguards to be undertaken during receipt, unloading, storage, transfer for its use, handling and all the precaution measures to be taken for its security and intended use.
2. Justification regarding not carrying out of baseline study of Ambient Air Quality in upwind direction and compliance of the respective TOR issued by MoEF&CC in a letter and spirit.
3. An undertaking by the project proponent on the ownership of the EIA report as per the MoEF&CC OM dated 05/10/2011 and an undertaking by the Consultant regarding the prescribed TORs have been complied with and data submitted is factually correct as per the MoEF&CC OM dated 04/08/2009.

On 26 November 2015, Project proponent submitted reply which is as under.

**Reply by PP for Point No:1**

- Detailed point wise compliance report of the conditions mentioned in the License issued to project proponent by Chief Controller of Explosive vide letter No: E/HQ/GJ/22/38(E445) dated 03/06/2014 is as under:

**Compliance of condition of Licence No: E/HQ/GJ/22/38(E445) to possess for use of explosives from magazine at Dharampur Kajawdri Mines of M/s Saurashtra Chemicals Division of Nirma Ltd.**

Sr. No.	Condition	Compliance
1	The quantity of explosives on the premises at any one time shall not exceed the licensable capacity.	Condition is being strictly followed.  License for storage of explosive at any time are as under  Class 2 : 4500 Kg Class 6 Division 1: 10000 Mtrs Class 6 Division 2: 40000 Mtrs Class 6 Division 3: 30000 Mtrs  In no case the quantity of the explosive exceed the licensable capacity which can be evident from the Date wise records of the quantity of explosives in the Month of November-2015 enclosed as Annexure-1.
2	The magazine used for storage of explosive shall maintain safety distance specified in schedule III and annexure to the license.	Yes, Safety distance is maintained as shown in the annexure to the license.
3	The magazine shall be used only for keeping all explosives specified in this license and of receptacle for or tools or implement for work connected with keeping of such explosives	The magazine has been used only for storage of explosives specified in the license.
4	The opening of packages and weighting and packing of explosives shall not be carried on in the magazine	Condition is being strictly followed.
5	Two or more description or explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character or by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other, provided that (d) the various explosive of class 2 ( nitrate- mixture), class (	Magazine divided in three compartments by an intervening partition.  safety fuses belonging to class 6 Division 1 and detonating fuses belonging to class 6 Division 2 are stored in one compartment and other two class stored in separate compartment.

	<p>nitro-compound), safety fuses belonging to class 6 Division 1 and detonating fuses belonging to class 6 Division 2 as do not contain any exposed iron or steel may be kept with each other without any intervening partition or space;</p> <p>(e) Detonators belonging to class 6 Division 3 shall be kept separately.</p> <p>(f) Gun powder belonging to class I shall be kept separately.</p>	
6	<p>Explosives of class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of licensing authority.</p>	<p>We are keeping class two explosive in magazine and used before expiration of one year from the dated of their manufacture.</p>
7	<p>Explosives of class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of the Controller of Explosive.</p> <p>(i) When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the controller of Explosive at each inspection and shall be kept by the licensee and produce on demand.</p> <p>(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nitro-glycerin or liquid nitro compound is no longer fit for storage in the magazine or store house the licensee shall comply, at his own expense.</p>	<p>We are keeping class two explosive in magazine and used before expiration of one year from the date of their manufacture.</p> <p>Hence no sanction is required.</p>
8	<p>The interior of Magazine and the benches, shelves and fittings therein shall be constructed or so lined or covered as to prevent the exposure of</p>	<p>Is being strictly followed.</p>

	any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean; and in case of any explosives liable to be dangerously affected by water, due precaution shall be taken to exclude water there from.	
9	<p>If the lighting conductor is tested by the controller of explosives, the licensee shall pay the fees prescribed for test. In the event of test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lighting conductor is passed by the testing officer as satisfactory.</p> <p>Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day.</p> <p>Provided further that where two or more lighting conductors are attached to one and the same magazine. The fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lighting conductor.</p>	We adhere with this condition.
10	<p>Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means for preventing the introduction into danger area of the factory premises of fire Lucifer matches or any substance or article likely to cause explosion or fire but this condition shall not prevent the introduction of an artificial light of such construction position or character as not to cause</p>	<p>Due care has been taken while handling of explosive and following mitigative measures has been taken to control danger of fire or explosion.</p> <ol style="list-style-type: none"> <li>1. Round the clock security guards are engaged for security of Magazine.</li> <li>2. To prevent the unauthorized persons from having access to the Magazine, magazine is surrounded by compound wall and there after the area in the radius of 9 m around Magazine is surrounded by a Barbed wire fencing &amp; kept free from dry grass and other combustible material.</li> </ol>

	<p>any danger of fire or explosion :</p> <p>Provide than an explosive of the 1<sup>st</sup> division of the 6<sup>th</sup> (Ammunition) class is kept.</p>	<p>3. The mobile use is prohibited within Magazine.</p> <p>4. Lightening Arrester is provided at Magazine.</p> <p>5. Other safety instructions such as prohibition of Use of Mobile, Prohibition to carry Cigar, Cigarette, Bidi, Matches, Lighter etc. within compound wall of Magazine.</p> <p>6. The blaster is personally searched every person engaged in the transport and use of explosive and is satisfied that no person so engaged has in his possession any cigarette, bidi or other smoking apparatus or any match or any other apparatus of any kind capable of producing a light, flame or spark.</p> <p>7. Persons engaged in handling of explosive/blasting operation shall not wear loose outer clothes with pockets.</p>
11	<p>The licensee shall keep records and accounts of all explosive in forms RE-3 and RE-4 or RE-5 as the case may be and exhibit the stock books in the records to any of the officers authorized under the Explosive Rules 2008 whenever such officer may call upon him to do so. The stock book in the prescribe Performa shall be page numbered.</p>	<p>Maintained record and accounts of all explosive in prescribed form RE-3 and RE-5 under the explosive Rules 2008.</p> <p>The stock book in the prescribed Performa with page numbered is maintained.</p>
12	<p>No change or alteration shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.</p>	<p>We adhere with this condition.</p>
13	<p>Magazine shall at the times be kept in state of good repair (or maintain in good condition). The licensee shall report to licensing authority forthwith if the magazine becomes unfit for storage of any explosive for any reason whatsoever.</p>	<p>Magazine at present is in good condition and whenever required any maintenance work, will be reported to licensing authority in advance for approval.</p>
14	<p>The licensee of the magazine shall</p>	<p>Quarterly return is being submitted as per rules</p>

	submit quarterly return as per sub rules (3) and (4) of rule 24 or these rules.	(3) of rule 24 and also submitting on line quarterly return.
15	Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.	We adhere with this condition.
16	The licensing authority shall be immediately informed for advice if any explosive is found deteriorate or unserviceable.	We adhere with this condition.
17	The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and read the manufacture particular of each package.  The resistant of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms	We have provided the stocked area such a way that the person can easily move and check the storage condition of stored packages and read the manufacturing particular of each package.  Resistant of the lightning conductor to earth is tested once in year and in no case exceed 10 ohms, certificate of the same is kept at magazine.
18	The resistant of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms	Resistant of the lightning conductor to earth is tested once in year and in no case exceed 10 ohms, certificate of the same is kept at magazine.
19	A distance of 15 meters surrounding the magazine or store house shall kept clear of dried grass or bush or flammable materials.	We have maintained the 15 meters surrounding area of the magazine free from dried grass/bush/flammable materials.
20	Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition	Explosive is being examined at the time of bringing inside the magazine.
21	No more than 4 persons shall be allowed inside the magazine or store house at any one time	Is being strictly followed.
22	Empty packages of explosives shall be removed at the earliest and destroyed	Is being strictly followed.



23	<p>The licensee and the employee shall be conversant with the procedure to be taken during the emergency within the premises.</p> <p>We have framed emergency plan which is reproduced here under and make sure that every person who is handling the explosive can conversant with the procedure to handle the emergency.</p> <p><b>EMERGENCY PLAN</b></p> <p><b>OBJECTIVES:-</b></p> <p>The overall objectives of this emergency plan will be:</p> <ol style="list-style-type: none"> <li>a. To localize the emergency and if possible eliminate it and</li> <li>b. To minimize the effects of the accident on people and property.</li> </ol> <p>Elimination will require prompt action by persons engaged in handling of explosive, Security Guards, &amp; other competent officials.</p> <p>Minimizing the effects may include evacuation, rescue, first aid, rehabilitation and giving information promptly to people nearby.</p> <p><b>CODE OF PRACTICE IN EMERGENCIES ARISING DUE TO FIRE</b></p> <p><b>Line of action:</b></p> <ol style="list-style-type: none"> <li>1. Any person who notices any sign of fire shall immediately take steps to give warning to others and take steps to extinguish fire by using appliances available.</li> <li>2. The persons in nearby will also help in extinguishing the fire.</li> <li>3. The emergency siren provided should be blown continuously in mode of start – stop, so that persons in nearby area may get warning signal &amp; rush to site for support in extinguishing the fire.</li> <li>4. The mine officials receiving the warning shall forthwith inform on following places <ol style="list-style-type: none"> <li>a. Fire Brigade</li> <li>b. Ambulance</li> <li>c. Health Centre / Dispensary</li> <li>d. Mines manager</li> <li>e. Mines Agent</li> </ol> </li> </ol>	
24	<p>Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the act and these rules and the safety conditions are duly observed</p>	<p>We adhere with this condition.</p>
25	<p>If the licensing authority or a controller of explosives informs in writing the holder of the license to execute to any repairs or to make any addition or</p>	<p>We adhere with this condition.</p>

	alternation to the licensed premises or machinery tools or apparatus or carry out recommendations, which are in opinion of such license shall execute the recommendation and report compliance within the period specified by such authority.	
26	The licensee shall purchase authorized explosives fireworks or safety fuse as mentioned in the list authorized explosives from a licensed factory or company for possession and sale from the magazine.	Explosives are being purchased from the list of authorized explosive agency.
27	The possession and sale of fire-crackers generating noise level exceeding;  a) 125 dB (AI) or 115dB(c) pk at 4 meters distance from the point of bursting shall be prohibited. b) For the individual re-cracker constituting the series (joined fire-cracker), the above mentioned limit be reduced by $5\log_{10}(N)$ dB, where N= Number of cracker joined together.	Not applicable.
28	Accident by fire or explosion and losses, shortage or theft of explosive shall be immediately reported to the nearest police station and licensing authority and local office of the licensing authority.	We abide with this condition.

**Date wise Records of Explosive storage at Magazine is as under as per submission of Annexure I:**

<b>Date</b>	<b>Nitrate Mixture- Slurry and Emulsion Explosives (Class 2, Div.0)</b>	<b>Electric and/or Ordinary Detonators (Class 6, Div.3 )</b>	<b>Safety Fuse (Class 6, Div.1)</b>	<b>Detonating Fuse (Class 6, Div.2)</b>
<b>Licensable Quantity</b>	<b>4500 kg</b>	<b>30000 nos.</b>	<b>10000 mtrs.</b>	<b>40000 mtrs.</b>

01/11/2015	3843.750	6035	665	29975
02/11/2015	3843.750	6035	665	29975
03/11/2015	3462.500	5935	650	28900
04/11/2015	3283.750	5867	640	28300
05/11/2015	3283.750	5867	640	28300
06/11/2015	3006.250	5722	626.25	27700
07/11/2015	3006.250	5722	626.25	27700
08/11/2015	3006.250	5722	626.25	27700
09/11/2015	2628.750	5591	613.75	27125
10/11/2015	2628.750	5591	613.75	27125
11/11/2015	2426.250	5533	601.25	26625
12/11/2015	2426.250	5533	601.25	26625
13/11/2015	2426.250	5533	601.25	26625
14/11/2015	2426.250	5533	601.25	26625
15/11/2015	2426.250	5533	601.25	26625
16/11/2015	2426.250	5533	601.25	26625
17/11/2015	2426.250	5533	601.25	26625
18/11/2015	2118.750	5356	588.75	26050
19/11/2015	1868.750	5352	583.75	25675
20/11/2015	1741.250	5302	571.25	25350
21/11/2015	1741.250	5302	571.25	25350
22/11/2015	1516.250	5298	566.25	25050
23/11/2015	1361.250	5210	556.25	24850
24/11/2015	1361.250	5210	556.25	24850

➤ Details of safeguards to be undertaken during receipt, unloading, storage, transfer for its use, handling and all the precaution measures to be taken for its security and intended use is submitted by PP and are as under:

➤ **During Supply from Manufacturer/Consignor to Magazine:**

- The explosive is supplied by consignors having a valid License in Form LE-3.
- The explosive is not being transported along with any other material including Hazardous Material.
- The explosive is being transported in duly secured motor vehicle & Driver will have following documents in his possession
- Copy of Indent in Form RE-11 issued by consignee
- Copy of Transporter Pass in Form RE-12 issued by consignor.
- Original copy of Bill of explosive being transported.
- The consignor insures delivery of consignment of explosive to magazine of consignee at declared destination & Form RE-12 duly acknowledged by consignee kept by consignor as record.

➤ **During storage at Magazine:**

- Round the clock security guard is engaged for security of Magazine
- The Keys of Magazine is kept by Magazine in-charge in his possession. He will be responsible for opening the Magazine when ever so desired by any inspecting authorities.
- The Name, Address, Photograph of Magazine in-charge with whom the keys will be kept, will be furnished to Licensing authority, District authority.
- Only the occupier, his authorized representative or Magazine in-charge are allowed to open the Magazine for the purpose of receipt, issue of explosive.
- One entry register is made available to security guard, who will ensure that before opening of the Magazine, an entry is been made by concerned person in that register stating name of person, date & time of opening the Magazine.

➤ **During transport from Magazine to Mines (Place of Use):**

- We ensure that the antecedent of persons engaged in handling of explosive has been verified by local police.
- Any person who notices any kind of sabotage activity, he will immediately take steps to give intimation to Mines officials as well as security officials.

- The whole process of loading & transportation of explosive is being under supervision of Blasting Foreman & Blaster appointed in writing by the manager.
  - Whenever explosive are transported out side the Mines area, it has been transported in an enclosed van & the van has properly locked & sealed. Such Van is being operated by authorized driver & is accompanied by two able guards for security.
- **Documentation and record keeping so as to ensure accountability, identification & traceability of explosive, security Management for Magazine, tankers containing explosive melt, Transport of explosive by vehicles, Security during Transport of explosive including its loading & unloading, mechanism for controlling & restricting access of unauthorized persons to Magazine, assigning responsibility of compliance with plan or task :-**
- Following statutory Documents & records are maintained.
  - Record in Form RE-3 & RE-5: Form of account to be maintained by License holder – Account of Use of Explosive.
  - Return in Form RE-7: Quarterly Return of explosive.
  - Form RE-11: Form of Indent of for explosive.
  - Form RE-12: Copy of Pass issued by consignor for transport of consignment of explosive.
  - Blaster’s Diary: Indicating the quantum of explosives used for blasting purpose as desired under Metalliferous Mines Regulation 1961.
  - Along with following statutory records following records are also maintained
  - Issue pass is being given by Blaster to Magazine in-charge duly signed by Mines Manager for issuance of desired quantity of explosives.
  - Similar issue pass is given by Blaster to Magazine in-charge duly signed by Mines Manager for returning the unused quantity of explosives to Magazine.
  - Security guard maintains a register of Entry in Magazine. In this register record of person allowed to enter in Magazine are maintained.

**Reply by PP for Point No:2**

- Baseline study of Ambient Air Quality in upwind direction as well as in downwind direction is monitored during October 2015 at following stations :

S. No.	Location Code	Location Name	Distance (km)	Direction
1.	A1	Aditpara	2.3	N
2.	A2	Mine site	0.2	E
3.	A3	Amardad	4.8	NE

4.	A4	Digvijaygarh	2.7	SE
5.	A5	Pipalia	6.0	SE
6.	A6	Upwind Direction Near Jagdish Farm	2	SW
7.	A7	Jagdish Farm (Near Porbandar Airport)	2.5	SW

The results of ambient air quality monitoring for the period of October-December 2013, are presented in following tables No 1 to 5. Ambient air quality monitoring in upwind direction was conducted in October-2015 and its results are given in **Tables-6 & 7**. Various parameters monitored from the study area have been described by their maximum, minimum and average values.

Table 1: Ambient Air Quality at AQ1

SITE	AQ1- Aditpara (All Values are in $\mu\text{g}/\text{m}^3$ )-North				
MONTH	DATE	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
<b>October</b>	03.10.2013	84	47	12	24
	04.10.2013	82	42	12	22
	14.10.2013	85	43	13	25
	15.10.2013	83	41	14	26
	21.10.2013	83	45	14	26
	22.10.2013	85	45	15	25
	27.10.2013	83	43	13	25
	28.10.2013	82	42	14	27
<b>November</b>	04.11.2013	86	44	15	26
	05.11.2013	84	43	14	25
	11.11.2013	80	41	15	27
	12.11.2013	82	42	14	26
	18.11.2013	81	41	16	28
	19.11.2013	80	39	15	27
	25.11.2013	81	39	14	26
	26.11.2013	80	40	15	27
<b>December</b>	02.12.2013	74	38	16	26
	03.12.2013	73	39	15	23
	10.12.2013	80	41	16	26

	11.12.2013	78	42	15	25
	18.12.2013	80	43	16	26
	19.12.2013	82	44	17	29
	26.12.2013	78	38	16	25
	27.12.2013	79	39	17	24
<b>Minimum</b>		73	38	12	22
<b>Maximum</b>		86	47	17	29
<b>Average</b>		81.04	41.71	14.71	25.67
<b>98<sup>th</sup> Percentile</b>		85.54	46.08	17	28.54

Table 2: Ambient Air Quality at AQ2

<b>SITE</b>	<b>AQ2 - Mine site (All Values are in µg/m<sup>3</sup>)-East</b>				
<b>MONTH</b>		<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NO2</b>
<b>October</b>	03.10.2013	88	48	13	28
	04.10.2013	86	47	12	26
	14.10.2013	86	45	14	27
	15.10.2013	85	46	15	26
	21.10.2013	85	44	15	27
	22.10.2013	87	48	15	26
	27.10.2013	89	47	15	28
	28.10.2013	86	41	14	26
<b>November</b>	04.11.2013	87	45	16	28
	05.11.2013	86	43	14	27
	11.11.2013	85	45	16	27
	12.11.2013	86	46	15	28
	18.11.2013	84	46	16	29
	19.11.2013	83	45	15	28
	25.11.2013	85	47	17	29
	26.11.2013	86	46	15	28
<b>December</b>	02.12.2013	82	42	17	28
	03.12.2013	84	43	16	27
	10.12.2013	86	43	16	24
	11.12.2013	85	42	17	28
	18.12.2013	79	43	16	27
	19.12.2013	81	41	17	28

	26.12.2013	83	42	15	24
	27.12.2013	84	41	16	26
<b>Minimum</b>		79	41	12	24
<b>Maximum</b>		89	48	17	29
<b>Average</b>		84.92	44.42	15.29	27.08
<b>98<sup>th</sup> Percentile</b>		88.54	48	17	29

**Table 3: Ambient Air Quality at AQ3**

<b>SITE</b>	<b>AQ3- Amardad (All Values are in µg/m<sup>3</sup>)-NE</b>				
<b>MONTH</b>		<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NO2</b>
<b>October</b>	05.10.2013	80	44	14	24
	06.10.2013	78	46	14	25
	16.10.2013	76	42	14	24
	17.10.2013	77	41	13	23
	23.10.2013	78	42	12	22
	24.10.2013	76	43	13	23
	29.10.2013	76	42	14	24
	30.10.2013	75	43	15	25
<b>November</b>	06.11.2013	80	42	13	23
	07.11.2013	81	40	12	22
	13.11.2013	77	44	14	27
	14.11.2013	75	41	15	26
	20.11.2013	78	44	16	27
	21.11.2013	76	41	15	28
	27.11.2013	78	44	15	27
	28.11.2013	79	42	14	26
<b>December</b>	04.12.2013	76	41	13	22
	05.12.2013	78	39	14	23
	13.12.2013	74	39	15	27
	14.12.2013	77	40	16	25
	21.12.2013	82	42	16	27
	22.12.2013	76	40	13	27
	28.12.2013	78	42	14	23
	29.12.2013	77	41	15	26



<b>Minimum</b>	74	39	12	22
<b>Maximum</b>	82	46	16	28
<b>Average</b>	77.42	41.88	14.13	24.83
<b>98<sup>th</sup> Percentile</b>	81.54	45.08	16	27.54

**Table 4: Ambient Air Quality at AQ4**

<b>SITE</b>	<b>AQ4 - Digvijaygarh (All Values are in <math>\mu\text{g}/\text{m}^3</math>)-SE</b>				
<b>MONTH</b>		<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NO2</b>
<b>October</b>	05.10.2013	81	48	13	23
	06.10.2013	80	44	12	25
	16.10.2013	80	44	12	22
	17.10.2013	81	43	13	23
	23.10.2013	80	42	13	22
	24.10.2013	81	44	14	23
	29.10.2013	81	43	14	24
	30.10.2013	82	45	15	25
<b>November</b>	06.11.2013	78	42	15	24
	07.11.2013	79	43	14	23
	13.11.2013	70	40	14	23
	14.11.2013	75	41	15	26
	20.11.2013	80	45	17	29
	21.11.2013	79	44	16	27
	27.11.2013	79	43	13	24
	28.11.2013	78	41	14	23
<b>December</b>	04.12.2013	79	40	14	28
	05.12.2013	81	42	16	27
	13.12.2013	78	42	16	22
	14.12.2013	77	40	16	25
	21.12.2013	75	38	15	26
	22.12.2013	78	39	16	27
	28.12.2013	80	42	14	24
	29.12.2013	78	38	17	26
<b>Minimum</b>		70	38	12	22
<b>Maximum</b>		82	48	17	29

<b>Average</b>	78.75	42.21	14.5	24.63
<b>98<sup>th</sup> Percentile</b>	81.54	46.62	17	28.54

**Table 5: Ambient Air Quality at AQ5**

<b>SITE</b>	<b>AQ5 - Pipalia (All Values are in µg/m<sup>3</sup>)-SE</b>				
<b>MONTH</b>		<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NO2</b>
<b>October</b>	08.10.2013	82	42	15	24
	09.10.2013	79	44	14	25
	18.10.2013	80	41	14	25
	19.10.2013	80	44	14	23
	25.10.2013	78	42	14	22
	26.10.2013	79	40	13	24
	31.10.2013	77	40	12	22
	01.11.2013	78	42	13	20
<b>November</b>	08.11.2013	81	44	15	22
	09.11.2013	82	43	14	24
	15.11.2013	78	40	12	26
	16.11.2013	79	42	15	25
	22.11.2013	78	40	16	27
	23.11.2013	79	41	15	26
	29.11.2013	76	40	13	21
	30.11.2013	75	39	15	23
<b>December</b>	07.12.2013	77	39	15	25
	08.12.2013	76	40	14	24
	15.12.2013	75	40	14	23
	16.12.2013	73	41	16	24
	23.12.2013	74	41	17	28
	24.12.2013	77	42	16	26
	30.12.2013	76	40	15	25
	31.12.2013	77	42	16	27
<b>Minimum</b>		73	39	12	20
<b>Maximum</b>		82	44	17	28
<b>Average</b>		77.75	41.21	14.46	24.21
<b>98<sup>th</sup> Percentile</b>		82	44	16.54	27.54

**Table 6: Ambient Air Quality at AQ6**

<b>SITE</b>	<b>AQ6 - Upwind direction Near Jagdish Farm (All Values are in <math>\mu\text{g}/\text{m}^3</math>)- South-West</b>				
<b>MONTH</b>		<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NO2</b>
<b>October</b>	01.10.2015	78	39	10	21
	02.10.2015	82	42	12	16
	08.10.2015	76	38	9	20
	09.10.2015	80	40	14	18
	15.10.2015	84	44	12	22
	16.10.2015	81	39	13	20
	22.10.2015	73	38	9	19
	23.10.2015	78	41	14	21
<b>Minimum</b>		73	38	9	16
<b>Maximum</b>		84	44	14	22
<b>Average</b>		79	40.125	11.625	19.625
<b>98<sup>th</sup> Percentile</b>		83.72	43.72	14	21.86

**Table 7: Ambient Air Quality at AQ6**

<b>SITE</b>	<b>AQ7 - Jagdish Farm (Near Porbandar Airport ) (All Values are in <math>\mu\text{g}/\text{m}^3</math>)- South-West</b>				
<b>MONTH</b>		<b>PM10</b>	<b>PM2.5</b>	<b>SO2</b>	<b>NO2</b>
<b>October</b>	01.10.2015	79	40	12	22
	02.10.2015	75	44	14	17
	08.10.2015	78	39	10	21
	09.10.2015	80	36	15	19
	15.10.2015	82	43	13	22
	16.10.2015	78	39	16	20
	22.10.2015	82	45	12	24
	23.10.2015	76	38	11	18
<b>Minimum</b>		75	36	10	17
<b>Maximum</b>		82	45	16	24
<b>Average</b>		78.75	40.5	12.875	20.375
<b>98<sup>th</sup> Percentile</b>		82	44.86	15.86	23.72

**Particulate Matter 10 (PM<sub>10</sub>):** The maximum value for PM<sub>10</sub> is observed, as 89µg/m<sup>3</sup> at Mine site while 24 hours applicable limit is 100µg/m<sup>3</sup> for industrial and mixed use areas. The area observes average PM<sub>10</sub> concentration in the range of 77-82 µg/m<sup>3</sup> with the lowest concentration of 70µg/m<sup>3</sup> recorded at Digvijaygarh.

**MAXIMUM 24-HR AVERAGE PM10 CONCENTRATION, µg/m<sup>3</sup>**

<b>Locations</b>	<b>Observed</b>	<b>Incremental</b>	<b>Predicted</b>
Aditpara	86	6	92
Amardad	82	3	85
Digvijaygarh	82	7	89
Pipalia	82	4	86
Upwind direction near Jagdish Farm	84	3	87
Jagdish Farm near Porbandar Air Port	82	3	85

**Particulate Matter 2.5 (PM<sub>2.5</sub>):** The maximum value for PM<sub>2.5</sub> observed is, 48µg/m<sup>3</sup> at Mine Site while 24 hours applicable limit is 60µg/m<sup>3</sup> for industrial and mixed use areas. The average PM<sub>2.5</sub> concentration value ranges between 40-44µg/m<sup>3</sup> with lowest concentration of 38µg/m<sup>3</sup> recorded at Aditpara, Digvijaygarh and Upwind Direction near Jagdish Farm.

**Nitrogen Oxides (NO<sub>2</sub>):** The maximum value for NO<sub>x</sub> is observed, as 29µg/m<sup>3</sup> at Adityana Village, Mine Site & Digvijaygarh while 24 hours applicable limit is of 80µg/m<sup>3</sup> for residential, industrial and other areas. Average value of NO<sub>2</sub> ranges from 19-27µg/m<sup>3</sup>. The lowest recorded value of NO<sub>2</sub> is 16µg/m<sup>3</sup> at Upwind Direction near Jagdish Farm. The study area observes NO<sub>2</sub> well below the prescribed range.

**Sulphur Dioxide (SO<sub>2</sub>):** The maximum value for SO<sub>2</sub> is observed, as 17µg/m<sup>3</sup> at Adityana Village, Mine Site, Digvijaygarh, Pipalia, while 24 hours applicable limit is of 80µg/m<sup>3</sup> for residential, industrial and other areas. Average concentration of SO<sub>2</sub> varies from 11-15µg/m<sup>3</sup>

and the lowest recorded value of SO<sub>2</sub> is 9µg/m<sup>3</sup> at Upwind Direction near Jagdish Farm. All the villages have observed value well under the prescribed limit.

It was concluded that the study area represents mostly rural environment. The sources of air pollution in the region are vehicular traffic, dust arising from unpaved village roads and domestic fuel burning. All the values of parameters have been observed under the prescribed limit.

### Reply by PP for Point No:3

- An undertaking by the project proponent on the ownership of the EIA report, an undertaking by the consultant regarding the prescribed TORs have been complied with and data submitted is factually correct is submitted.

Project proponent during presentation mentioned that

- They have applied for second renewal of lease which is pending before the government. He further mentioned that Mining Plan for expansion of production from 40,000 TPA to 2,00,000 TPA is approved by IBM.
- Recommendation of Geologist(Lease) regarding renewal of the proposed lease is submitted to Dy. Secretary, Department of Industries and Mine, Sachivalay, Gandhinagar on 15/09/2014. Reply is awaited from the Department of Industries and Mine, Sachivalay, Gandhinagar.

Reply of the additional information sought was deliberated in detail by the committee and found it satisfactory. Hence committee during meeting held on 19.01.2016 unanimously decided to recommend the above proposal for grant of environmental clearance to **SEIAA**.

## **PROPOSALS QUERIED FOR ADDITIONAL INFORMATION**

### **SAND MINING PROJECT, DIST: BHARUCH**

<b>Sr. No</b>	<b>Name of Applicant</b>	<b>Lease Area in Hectares</b>	<b>Location Address</b>	<b>Village</b>	<b>Taluka</b>	<b>Rate of Mining</b>	<b>Distance of Nearest Town &amp; City</b>
1.	Devesh Sahai	4.00.00 Existing	Narmada River Bed lagu	Manad	Bharuch	2000 MT/M	Manad: 1.5 Km

Shri S.P.Patel, Surveyor, Dist: Bharuch represented the above proposal before Committee on 15.09.2015. He informed that above lease is located on river bed of Narmada. and sand excavation will be done only from dry river bed. He further

informed that River Narmada is Perennial River and instream (flowing water) type of mining is not practiced in the above lease area. It was also represented that no any bridge piers / water intake wells / irrigation structures exist within 500 m distance from boundary of any of above lease areas. He explained that sand excavation will be done up to maximum 3 m depth or water level, whichever is less. The committee observed that the lease holder has proposed to leave adequate setback distance from the river bank so as to avoid chances of river bank erosion.

After presentation, committee asked Asst. geologist to submit details of the above proposal regarding applicability of CRZ Notification 2011.

On 15.10.2015, Asst. Geologist, Bharuch submitted Project details for the above proposal mentioning that lease area is above water and high tide line is more than 300 meter distance from lease location. Referring to the submission of project details on 15.10.2015, proposal was reconsidered in the SEAC meeting held on 20 October 2015 and it was decided by the committee that a CRZ map showing High Tide Line (HTL) demarcated by the institute/s approved by MOEF, New Delhi for this purpose and the location of the periphery of the above lease area from high tide line superimposed on the CRZ map shall be submitted to SEAC.

On 06.01.2016, Asst. Geologist submitted aforesaid information mentioning that proposed lease of Shri Devesh Sahai in Narmada river at village:Manad Ta: Bharuch is falling in CRZ area as per the details of map procured from ISRO. A copy of map duly authenticated by surveyor, Bharuch is also submitted on 06.01.2016.

During SEAC meeting held on 19 January 2016, Committee noticed that Ministry of Environment, Forest & Climate Change, Government of India vide their Notification No:S.O.141 (E) dated 15.01.2016 has delegated powers for the grant of Environment Clearance for mining projects having lease area up to 5 hectares are delegated to the District Level Environment Impact Assessment Authority (DEIAA). Further, the Ministry of Environment, Forest & Climate Change, Government of India has also vide their Notification No: S.O. 190 (E) dated 20.01.2016 constituted the District Level Environment Impact Assessment Authority (DEIAA) and District Level Expert Appraisal Committee (DEAC) for this purpose. Committee noted that lease area of the above proposal is less than 5 hectare and decided to transfer this proposal to DEIAA

## **ADDITIONAL AGENDA**

Standard terms of reference (TOR) for Non coal mining projects published by Ministry of Environment, Forest and Climate Change, New Delhi during April 2015 along with additional TOR mentioned below for mining projects falling under the category 1(a) were circulated among the members of SEAC committee for approval and it was unanimously approved to accord the same while recommending the proposals to SEIAA.

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the areashould be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

- 12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to



- shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
- 22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
  - 23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
  - 24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
  - 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
  - 26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
  - 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
  - 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
  - 29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
  - 30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
  - 31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
  - 32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road

network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 38) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 44) Besides the above, the below mentioned general points are also to be followed:-
  - (i) Executive Summary of the EIA/EMP Report
  - (ii) All documents to be properly referenced with index and continuous page numbering.
  - (iii) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
  - (iv) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
  - (v) Where the documents provided are in a language other than English, an English translation should be provided.
  - (vi) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
  - (vii) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
  - (viii) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the

attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.

- (ix) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- (x) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

Beside above standard TORs, following additional TORs are recommended

:

1. Project site specific details such as distance of the project site from nearest (1) Village (2) Water Body : River / Creek / Nallah / Lake / Pond / Reservoir / Canal (3) National Highway (4) State Highway (5) Railway line (6) Heritage site (7) National Park / Wild Life Sanctuary / Reserve Forest / Protected Forest shall be included in the rapid EIA report to be prepared covering one season (other than monsoon) data. A map indicating the aerial distance of the lease area from these entities.
2. Distance of nearby mining lease areas from the periphery of the proposed project including a map covering distance of 1 Km from the periphery of the proposed project. In case of no mining lease areas existing in the 500 m periphery of the proposed project, certificate of the concerned geologist in this regard.
3. Copies of all requisite permissions including permissions from District Collector, Commissioner of Geology & Mining, Indian Bureau of Mines, GPCB, current lease renewal status with copy of renewed lease (if any) etc. to be incorporated.
4. Approved mining plan including progressive mine closure plan shall be provided with EIA report. Letter of approval of IBM shall also be incorporated with compliance of all the recommendations mentioned in approved mining plan.
5. Details of peripheral drains to arrest the inflow of surface runoff in the quarry area and garland drains for arresting run off from the overburden / reject dumps. Specific measures to ensure that contaminated runoff from mine terrain will not lead to the rivers / natural drains / adjoining farms, in any case.
6. A study report for utilization of water accumulated in reservoir during operation phase and post mine closure phase and its associated environmental benefits.
7. Details of preventive measures to be taken for non occurrence of any fatal or non fatal accidents.

8. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
9. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.

**The meeting was concluded with thanks to the chair.**

1. Shri T.P. Singh, Chairman, SEAC.
2. Shri V.C.Soni, Vice Chairman, SEAC
3. Dr. Mayuri Pandya, Member, SEAC
3. Shri V. N. Patel, Member, SEAC
4. Shri R.J. Shah, Member, SEAC