

The 78th meeting of the Second State Expert Appraisal Committee (SEAC-II) for mining projects was held on 25th May, 2017 under the Chairmanship of Dr. Navin Chandra for discussion on the query responses submitted by the PP and the projects issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohd. Akram khan, Member.
2. Shri. Mohd. Kasam khan, Member.
3. Shri. Prashant Shrivastava, Member.
4. Shri Rajendra Kumar Sharma, Member.
5. Shri Anil Kumar Sharma, Member
6. Dr. Sonal Mehta, Member.

The Chairman welcomed all the members of the Committee and thereafter agenda items were taken up for deliberations.

1. Case No. 5430/2016 M/s Anand Mining Corporation, Pathak Ward, P.O. & District Katni, MP – 483501. Prior Environment Clearance for Iron Ore Mine in an area of 20.234 ha. (10,00,000 TPA) (Khasra no. 1093P) at Village- Agaria, Tehsil - Sihora, Dist. Jabalpur (MP).(EIA consultant: M/s Aplinka Solutions & Technologies Pvt. Ltd., Noida)

This is case of Iron Ore Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located (Khasra no. 1093P) at Village- Agaria, Tehsil - Sihora, Dist. Jabalpur (MP) 20.234 ha. The project requires prior EC before commencement of any activity at site.

The case was presented by the PP and their consultant in 55th SEAC-II meeting, dated-15/10/16. Being it's a case of major mineral, it was decided to consider this case as B-1 category and committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
2. Transportation plan & traffic management plan should be discussed in the EIA report.
3. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
4. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
5. Compliance of consent conditions of M. P. Pollution control Board from concerned Regional Office & compliance of earlier E.C condition. (if applicable)
6. Year wise details of minerals already excavated till date should be submitted with EIA report.
7. Detailed plantation Scheme with some species of medicinal plants.

8. Photographs of sampling along with its all input output data and its back-up calculation.
9. Monitorings of Air, Water and Noise should be carried out on atleast 08 locations selected on the basis of environmental sensitivity.
10. Environmental policy with organization management plan should be given along with EIA report.
11. Documents pertaining to validity of lease should be enclosed with the EIA report.
12. Details of year wise production obtained (if any) should be submitted with EIA report.

PP has submitted EIA vide letter no.-06/05/2017 which was forwarded by the SEIAA vide letter no.400 dated-11/05/2017.

The case was presented by the PP and their consultant wherein following details were provided by the PP:

S.No	Particular	Description
1.0	Project Name	Agaria Iron Ore Mine at Agaria village, Sihora Tehsil, Jabalpur District, Madhya Pradesh by M/s. Anand Mining Corporation.
2.0	S. No. in the schedule and category of the project as per EIA Notification, 2006	Project falls under category B1 with project activity type "1(a)" (Mining of Minerals).
3.0	Present Mine Lease Area (mineable area and green belt area)	20.234 Ha.
4.0	Type of Land	Government Barren land
5.0	Mining lease Period	50 years from 1980-2030 (12 years remaining)
6.0	Estimated Project Cost (INR)	7.70 Crores.
7.0	Man Power& No. of Working days	Manpower: 50 persons Working days: 275 Days/Year.
8.0	Water Requirement (KLD)	34.0 KLD
9.0	Ground Water Table m below ground level (BGL)	30-35 m (pre and post monsoon season)
10.0	Pre-Feasibility Mineral Resource(222)	Iron Ore (Lumps)- 0.289011 Million Tonnes Iron Ore (Fines)- 1.391250 Million Tonnes
	Probable Mineral Reserve(122)	Iron Ore (Lumps)- 1.668597 Million Tonnes Iron Ore (Fines)- 8.607485 Million Tonnes
	Indicated Mineral Resource (332)	Iron Ore (Lumps)- 1.957608 Million Tonnes Iron Ore (Fines) - 9.998735 Million Tonnes
11.0	Targeted Production	10,00,000 Ton Per Annum
12.0	End use of Product	The mineral is intended for sale to steel plants in country, cement plants in Madhya Pradesh & pellatisation units in M.P. and Chhattisgarh.
13.0	Climatic Conditions at IMD Jabalpur	Temperature Max: 32 ⁰ C Min: 8 ⁰ C

		Wind Speed Range	0.56m/s to 1.39 m/s
		Predominant Wind Direction	Blowing from North East and North
14.0	Nearest Town	Sihora 12 Kms (WNW) Arial Distance	
15.0	Nearest Airport	Jabalpur Airport at 22 Km in SW Arial Distance	
16.0	Nearest Railway Station	Gosalpur at 8.70 Km west Sihora Road – 10.50 Km NNW	
17.0	Nearest Water Bodies	<ul style="list-style-type: none"> • Canal – 360 m in South from project boundary (arial distance) • Water Tank – 550 m in ENE from project boundary (arial distance) • Barne Nadi – 1.30 Km in West from project boundary (arial distance) • Hiran nadi - 8.26 km NW from project boundary (arial distance) • Marai Reservoir-3.68 km SW from project boundary (arial distance) • Barne Reservoir – 4.87 km SW from project boundary (arial distance) 	
21.0	Historical Monuments (in 10 Km Buffer)	None within the study Area.	
22.0	Protected areas as per Wildlife Protection Act 1972 (Tiger reserve, Elephant reserve, Wildlife sanctuaries, National park, Conservation reserve and community reserve)	None within the 15 km radius	
23.0	Forests within 10 km radius from mine lease boundary	No protected forest has been found in the study area. 5 Reserve forests have been reported namely; Borha RF-7.36 km, Taunri RF-8.9 km, Dabra RF-7.3 km, Banjar RF-8.66 km, Budhari RF-6.61 km.	
24.0	Industries falls under 10 Km	None	
25.0	Seismic Zone	Seismic Zone III as per IS-1893 (Part-1)-2002	
26.0	Nearest Govt. Hospital	Sihora 13.10 km WNW from project boundary (arial distance)	

The case was presented by the PP and their consultant wherein PP submitted that this is a project for open cast mechanized method of mining of Iron Ore. The ML area has been granted by Govt. of M. P. The proposed production is 10,00,000 TPA. The life of the mine is anticipated at approx. 12 years based on the level of exploration and reserve established as per as per mining plan.

The area under reference is a barren Govt. Land. Total ML area is 20.234 Ha. The area was previously held under Mine Lease for 10 years period w.e.f. 08.02.1980 to 07.02.1990. The lessee applied for renewal of mining lease before the State Government on time as per the then prevailing Rule 24 of MCR 1960. The State Government vide its order dated 25.06.1993 rejected the application of renewal. The lessee against the impugned order of the State Government dated 25.06.1993 filed revision application (file no.-6(67)/94-RC-II) before the Hon'ble tribunal, Central Government. The Tribunal vide its order dated 12.04.2000 under Section 13 of MM (D&R) Act 1957 and Rule 55 of MCR 1960 passed the order. The applicant later filed the Writ Petition vide number 4685/2010 in Hon'ble High court for non-renewal of the Mine Lease area. The High Court vide its order dated 22.11.2013 disposed of the petition with direction to consider and decide the renewal application of the petitioner keeping in view the all statutory provisions, Rules, Regulation and the orders of the superior authorities with speaking order under intimation to the petitioner within 90 days. The applicant further filed review petitioner no.-172/2014 arising out of WP No. 4685/2010. Authorities were directed that on such consideration the petitioner is found to be entitled for renewal of the impugned lease then same be renewed in accordance with the procedure. The State Government vide letter No. 3-230/1990/12/2 Bhopal, dated 04.04.2015 has directed the Collector, Jabalpur to act as per rules for renewal and seek any papers from the State Government if needed in the instant case in accordance with the MMDR Amendment Act 2015 & Directions of Government letter dated 04.04.2015. In compliance of THE MINES AND MINERALS DEVELOPMENT AND REGULATION) AMENDMENT ACT, 2015, the ML area has been extended for 50 years up to 07.02.2030.

The Scheme of Mining has been approved to the project proponent M/s. Anand Mining Corporation by The Scheme of Mining has been approved by IBM Vide letter no. MP/Jabalpur/Iron Ore/MPLN/MOD-07/2016-17/2087 dated 31.08.2016.

The District headquarter Jabalpur is about 48 km. Area can be approached by approachable from district headquarter Katni and Jabalpur on NH-7 via Sihora. Sihora is 38kms from Jabalpur and about 53kms from Katni. Sihora road, railway station situated on Jabalpur-Itarsi section of Central Railway is 2km from Sihora. The lease area is 15 km south-east of Sihora road railway station. The Iron ore of the lease area is suitable for sponge iron, steel plants, cement & pellatisation plant units in M.P. and Chhattisgarh. It will also be utilized in beneficiation plants near Sihora. PP further submitted that an extensive green belt will be developed over and area on 2.974 ha on non mineralized zone and on approach road side. The method of mining will be open cost manual / mechanized. As reported in the EIA and other documents that the water table in the

lease area varies from 30 m to 35 m whereas ultimate depth of mining is proposed up to avg. 8 m depth and thus ground water intersection is not envisaged. The area is hilly trending towards NW-SE. The two quarries exist towards both the ends. The trend of the hillock is along the strike and mineralization has been fully established.

Topography and Drainage Pattern

The topography of the applied area is hilly having slope from East. The highest elevation of the lease area is 437m AMSL on top of hill and the lowest elevation is 398m AMSL in south-west direction.

The lease area is drained by north-westerly flowing non-perennial nallah confluencing in Hiran River. There is no tank, water reservoir or any nallah in the core zone. There are seasonal water courses and rainwater catchment ponds in the vicinity of the mining area towards south and west. There is a canal at 360m in south. A water tank exists at 550m distance in ENE in village Agaria. Hence, impacts on surface water drainage may be envisaged. The waste water generation in the mining process is not envisaged. The possibility of surface water contamination due to wash off of dumps is not envisaged as no dumping is proposed.

At Conceptual Stage – Reclamation will be carried out by simultaneous backfilling during conceptual stage. About 17.26 ha area will be backfilled and reclaimed during the conceptual period. The height of the backfilling will be about 5m. The soil to the thickness of 0.20m will spread at top, leveling will be done and afforestation of native species, fruit bearing trees and Neem, Pipal, Karanj, khamer, Bamboo, Amla, Gulmohar, Mango and Mahua etc. trees will be planted. Conceptual rehabilitation of the reclaimed area will be done by way of growing fruit trees as well as fire wood which will be of commercial utility to the local population.

Lay out of haulage road: Haulage roads 6m wide will be laid at maximum 1: 16 gradient from surface to pit bottom with in bye roads to faces of individual benches while the gradient in ramps will be 1 in 10.

Transportation Route:

Three transportation routes will be followed and are as follows:

1. Mine-katara-rithauri PWD Road intersect on NH-7
2. Mine-Pondi Kalan –Jhansi – Gosalpur Market PWD Road intersect on NH-7
3. Mine-Agaria-Dubyara-Pratappur-Sihora Maket intersect on NH-7

4. Katni - Jabalpur on NH-7 via Sihora

5. Mine-Agaria-Dubyara-Pratappur-Hargarh.

All the ore will be sent directly to nearby upgrading and beneficiation plants via these routes.

Mining during 1st Five Year

For first five years mine development will be done. Once development work is over mining of mineral begins and then production will become constant as ore body will be reached.

Year	Total tentative Excavation (Cum)	OB/SB/IB (cum)	ROM		Mineral Reject (cum)	Production in tonnes *			Mineral Reject	ROM/Waste ratio
			Iron Ore			Iron Ore				
			Lumps	Fins		Lumps	Fines	Dump		
2016-17	3000	3000	0	0	-	0	0		-	
2017-18	102692	21942	80750	0	-	242250	0	173040	-	1:0.27
2018-19	352052	32852	91200	228000	-	273600	684000	-	-	1:0.10
2019-20	361060	27610	51300	282150	-	153900	846450	-	-	1:0.08
2020-21	361072	27622	48450	285000	-	145350	855000	-	-	1:0.08
Total	1179876	113026	271700	795150	-	815100	2385450	173040	-	1:0.10

Use of Mineral

The Iron ore of the lease area is suitable for sponge iron, cement & pellatisation plant. The mineral is intended for sale to steel plants in country, cement plants in Madhya Pradesh & pellatisation units in M.P. and Chhattisgarh. It will also be utilized in beneficiation plants near Sihora. No processing/beneficiation of the mineral will be done except simple sizing and sorting.

Beneficiation/Processing

No processing of mineral will be done in the mine. Only simple sizing and sorting will be done.

The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior Environmental Clearance

The presentation of EIA & EMP made by PP was found adequate and committee after deliberations decided that the submissions made by PP are found to be satisfactory and acceptable hence the case was recommended for grant of prior EC subject to the following special conditions:

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.

2. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Transportation of minerals shall not be carried out through forest area.
6. Curtaining of site shall be done through thick plantation of two to three rows all around the boundaries of all part of lease and dominant wind direction.
7. The OB should be properly stacked inside the ML area in barrier zone and disposed off as per the submitted plan. PP shall bound to compliance the final closure plan as approved by the IBM
8. Production of Iron Ore shall be as per the approved mining plan with quantity not exceeding 10,00,000_TPA.
9. No drilling and blasting is permitted for production of minerals.
10. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) including the village side to provide additional protection in one year only.
11. Authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
12. As proposed, garland drains (560mX1.5mX0.80m, 850mX0.5mX0.40m, 100mX0.25mX0.25m, 200mX0.25mX0.50m and 100mX4.0mX2.5m) shall be provided along with 12 settling pits of suitable sizes should be provided to avoid silt discharge. As proposed, 06 settling tanks (30mX10mX5.5m (04 nos) and 50mX25mX5m (02 nos) for proper sedimentation connected with garland drains shall be provided.
13. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
14. Regular water spraying system should be provided on 9716 meter long and 03 meter wide village roads. However, regular water spraying should be practiced on haul road for dust suppression. PP should also explore the possibility of providing fixed types of sprinklers for dust suppression.
15. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.

16. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
17. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
18. The commitments made in the public hearing are to be fulfilled by the PP.
19. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
20. PP will comply with all the commitments made in by the letter dated 25/05/2017.

2. Case No. – 1249/2013 Shri Akshay Nayak, Partner M/s Galaxy Mines and Minerals, 309, Arniya Plaza, 27/2, Manorama Ganj, P.O. – Indore (M.P.) 452001 Hardua Kala Laterite & Dolomite Mine Lease Area – 8.81 Ha., at Khasra No. - 20 Part, Village – Hardua Kala, Tehsil – Majholi, Distt. – Jabalpur (M.P.) Capacity – 30,000 TPA.

This is a mining project in a lease area of 8.81 hectare *at Khasra No. -20 Part, Village – Hardua Kala, Tehsil – Majholi, Distt. – Jabalpur (M.P.) Capacity – 30,000 Cubic Meter/Year.* The project requires prior EC under the provisions of EIA notification. The case was forwarded by SEIAA for scoping so as determine TOR to carry out EIA and prepare EMP for the project.

The case was presented by the PP and his consultant in the 123rd SEAC meeting dated 12/03/2013 for TOR. The presentation and submissions made by the PP reveals following:

- The lease area has been granted in favour of M/S Galaxy Mines & Minerals for mining of minerals of Laterite & Dolomite in Village Hardua Kala, Tehsil Majholi, Distt. Jabalpur, State Madhya Pradesh for 30 years period.
- The lease area under reference is revenue land and the state Government of M.P. vide letter no. –F-2-37/08/12/2, Bhopal, Dated-29.08.2008 sanctioned prospecting license over 8.81 ha. area.
- The mining plan has been approved by competent authority for lease period vide letter no.-MP/JABALPUR/LATERITE/MPLN/G-09/11-12 dated 4/07/2012.
- The state govt of M.P. has sanctioned the mining lease for 30 years period vide state govt. order No. F-3-9/2011/12-2 dated 17.12.2012.

Project	Hardua Kala Laterite & Dolomite Mine
Location	Village : Hardua Kala, Taluka : Majholi District : Jabalpur, State : Madhya Pradesh
Total Area	8.81 ha
Type of Land	Non- Forest and Barren Land
Screening Category	'B' Category
Cost of the Project	Rs.1.0 Crores
Employment Generation	30
Mining Plan	Approved by IBM in July 2012.

Mining Details

- Opencast other than fully mechanized method will be adopted.
- All operation of mining will be carried out by manual/utilization of heavy earth moving machineries except deep hole and blasting.
- Sub benching will be done to facilitate Jack Hammer drilling and blasting.
- Local Labours from nearby villages will be employed.
- The OB and mineral will be excavated and loaded mechanically on 10-16 t trucks or dumpers.

Land use break-up

S N	LAND USE	Present land use (ha)	Lease Period End (ha)
1	Excavated area/ Pit	0.005	(7.895)
2	Total area under Dumps	-	-
3	Area under active Dump	-	-
4	Area under Infrastructure	-	Nil
5	Area under Road	-	-
6	Garland Drain & Bund	-	-
7	Area under minerals stack	-	-
8	Afforestation in barrier zone	-	0.915
9	Plantation in reclaimed area	-	7.895

10	Water reservoir	-	-
11	Undisturbed area	8.805	-
	TOTAL	8.81	8.81

Capital Cost of the project: Rs 100 lac

S. no.	Description	Cost in Rs.
1	Land cost expenditure	Nil
2	Cost of infrastructure, Equipment, vehicles, Manpower, machineries, etc.	95,00,000.00
3	Environmental protection (check dams etc)	2,00,000.00
4	Socio-economic development	3,00,000.00
	TOTAL	1,00,00,000.00

After deliberations committee has approved the TOR with inclusion of following points:

- a) Micro-level details of the surrounding area.
- b) Public Hearing shall be done.
- c) NOC from Gram Sabha for carrying the mining activity also addressing the permission for using the water from the village sources to be furnished with the report.
- d) Conceptual plan clearly showing the area existing as well as proposed under green cover.
- e) Photographs of the mining site showing latest status of the site with respect to OB management and green cover development.
- f) At least one monitoring station for Ambient Air quality monitoring each should be placed at boundary falling towards the habitation and the forest boundary.
- g) NOC from forest department stating the distances of nearest forest boundary and Notified national parks / sanctuary etc. from the boundary of MLA.
- h) Other TORs prescribed for similar projects shall also be applicable.

Earlier this case was again scheduled in 23rd SEAC-II meeting dated-06/05/2016 wherein it was recorded that: The TOR was approved in the 123rd SEAC meeting dated 12/03/2013 and the same was issued to the PP vide letter no. 458 dated 25/04/2013. The validity of TOR expired on 24/04/2015. PP vide their letter dated 08.09.15 has requested for TOR extension. As per MoEF&CC OM No. J-11011/41/2006-IA.II (I) (Part) dated 20/03/2015 the validity of TORs is extended up to three years which can further be extended by a maximum period of one year provided application is made by the PP at least 03 months before the expiry of the validity period. PP has submitted the application for the same on 18/11/2015. After deliberations, the committee

recommends the case for extension in TOR for one year with validity up to 24/04/17 as per MoEF&CC OM No. J-11011/41/2006-IA.II (I) (Part) dated 20/03/2015.

PP has submitted EIA vide letter no.-22/04/2017 which was forwarded by the SEIAA vide letter no.-300, dated-25/04/2017.

The case was presented by the PP and their consultant wherein PP submitted that Hardua Kala Laterite & Dolomite mining is situated Village Hardua Kala, District- Jabalpur, Madhya Pradesh over an area of 8.81 hectares. The mining lease was granted in favour of M/s Galaxy Mines & Minerals. Two minerals are proposed to be extracted Mainly Laterite & Dolomite .The proposed rate of production is 30,000 TPA of Laterite & Dolomite. The proposed Laterite and Dolomite mining lease comes under Village: Hardua Kala, Tehsil: Majholi, and Dist: Jabalpur, Madhya Pradesh. Geo-graphically the ML area extends from East Longitude 80°09'34.2" E to 80°34'44.2" E and North Latitude 23°34'11.0" N to 23°34' 24.9" N with an elevation of about 425 m above Mean Sea Level (MSL). The area falls in Survey of India top sheet No. 64 A/2. The mineral reserves of the Laterite is 2, 58,720 Tonnes and Dolomite 3, 30,000 Tonnes. The salient features of mine lease are given below:

Sr. No.	Parameter	Description
1	Name of the Mine	Hardua Kala Laterite & Dolomite Deposit.
2	Mining Capacity	30,000 TPA
4	Longitude Latitude	80°09'34.2" E - 80°09'44.2" E 23°34'11.0" N - 23°34'24.9"N
5	Site and its surroundings	The Laterite and Dolomite deposit lies on an elevated plateau with terraces above the gently sloping from 400-m RL in the SE to 425-m RL in the NE ends and area is categorized under GM land.
8	Method of mining	Opencast mine, Manual
9	Total ML area	8.81 ha
10	Extent of mechanization	-
13	Bench Slope from horizontal	45°
14	Average depth of mining	1.5 - 3 m
15	Average Top soil thickness	1.5 m

Sr. No.	Parameter	Description
16	Average stripping ratio of top soil to mineral for five years	1:0.30 in laterite 1:1 in dolomite
20	Manpower	30 persons
21	Water Requirement	9 m ³ /day
22	Source of Water	Nearby village,s tubewells/borewells
23	Solid Waste Generation	1,50,000 T of OB & Waste

Method of Mining

Manual opencast manual method of mining will be practiced.

Reclamation and Afforestation Programme

There will be no backfilling / reclamation in the lease area during first five years. The backfilling will be done from 6th year onwards after sufficient space is available for doing so. About 0.30 ha area will be backfilled per year up to 30% of the mined out depth on average. At the conceptual stage reclamation and rehabilitation will be carried out in complete 7.895 ha by means of plantation.

Land use Pattern

Presently (pre-mining), the land covered under the mine lease area is partly under agriculture and remaining under barren land. The details of the post mining land use and area proposed for reclamation are given below:

SI. No.	Particulars	Existing Land Use (ha)	After five Years(ha)	Conceptual land use (ha)
1	Excavated area/Pit	0.005	0.50	7.895
2	Area fully mined out (out of 1)	Nil	Nil	7.895
3	Area fully reclaimed (Backfilled out of 2)	Nil	Nil	7.895
4	Area rehabilitated out of 3 by afforestation	NA	Nil	7.895
5	Area reclaimed by water harvesting	Nil	Nil	Nil
6	Total area under Dumps	Nil	0.075	Nil

7	Area under active Dump	Nil	0.075	Nil
8	Area under minerals stack	Nil	0.25	Nil
9	Area under Road	Nil	0.10	Nil
10	Area under Green belt	Nil	0.15	0.915
11	Area under Infrastructure	Nil	0.05	Nil
12	Garland Drain & Bund	Nil	0.15	Nil
13	Undisturbed area	8.805	7.50	Nil
Total		8.81	8.81	8.81

During presentation it was observed by the committee that a hut is in close proximity of the lease area for which PP submitted that it's a space created by the farmers for agricultural purpose. Committee referred the certificate issued by the Tehsildar vide letter dated 06/08/2016 stating no human settlement within 500 meters of the lease area. The committee after deliberations decided that as precautionary measures, dense plantation in three rows should be developed towards this hut side to act as a wind barrier. The presentation of EIA & EMP made by PP was found adequate and committee after deliberations decided that the submissions made by PP are found to be satisfactory and acceptable hence the case was recommended for grant of prior EC subject to the following special conditions:

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Transportation of minerals shall not be carried out through forest area.
6. Curtaining of site shall be done through thick plantation of two to three rows all around the boundaries of all part of lease and dominant wind direction.
7. The OB should be properly stacked inside the ML area in barrier zone and disposed off as per the submitted plan. PP shall bound to compliance the final closure plan as approved by the IBM
8. Production of Laterite and Dolomite shall be as per the approved mining plan with quantity not exceeding 30,000 TPA.
9. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense

plantation shall be developed along the site boundary (in three rows) including the village side to provide additional protection in one year only.

10. Authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
11. As proposed, garland drains (1220mX2.0mX1.5m) shall be provided along with settling tank (20mX06mX03m with a sump of 40mX25mX02m for proper sedimentation and retention connected with garland drains shall be provided.
12. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
13. Fixed typed sprinklers should be provided on 200 meter long haul roads. However, regular water spraying should be practiced on transportation road for dust suppression.
14. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
15. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
16. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
17. The commitments made in the public hearing are to be fulfilled by the PP.
18. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

3. Case No. - 2468/2015 M/s N.M. Dubash Stone & Lime Co.Pvt. Ltd., Shri Sailendra Kumar Worah, Director & Owner, Station Road, P.O.-Maihar, Distt-Satna (M.P.) -485771 Kachhagawan Limestone and Dolomite Mine Lease Area - 7.42 ha.,Capacity-1,60,000 TPA at Khasra Nos.-96, part; 97 part; 100P, 129/1, 130/1, 131P Vill.-Kachhagawan, Th.-Murwara, Distt-Katni (M.P.).

This is a case of Kachhagawan Limestone and Dolomite Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra Nos.-96, part; 97 part; 100P, 129/1, 130/1, 131P Vill.-Kachhagawan, Th. - Murwara, Distt-Katni (M.P.) 7.42 ha. The project requires prior EC before commencement of any activity at site.

The Proposed project is for mining of Limestone and Dolomite by open cast other than fully mechanized method. The proposed mine lease area is located in village Kachhagawan, Tehsil Murwara, District Katni, Madhya Pradesh over an area of 7.42 Ha. The lease area is mostly broken and waste land and no forest land is involved in the mine lease area. The proposed capacity of the project is 1,60,000 TPA of Limestone and Dolomite.

1st Mining lease was granted to Shri Sorab Ji N. Dubash for the 20 years period w.e.f. 06.09.1980 to 05.09.2000. The lease has been transferred to N. M. Dubash Stone & Lime Co Pvt. Ltd. on 27.06.1991. 1st Renewal of mining lease was granted for 20 years period w.e.f. 06.09.2000 to 05.09.2020 by the State Govt.

Salient Feature of the Project

Project Site	Village Kachhagawan Murwara Tehsil, Katni District State: Madhya Pradesh	
Site Coordinate	Latitude: 23°58'34.6" N to 23°58'45.9" N Longitude: 80°27'34.1" to 80°27'59.9" E	
ML Area & Type of land	7.42 Ha of own land.	
Name of Reserve Forest(s), Wild life Sanctuary/ National parks etc. within 15km	Open Jungle	0.3 km in NW
	PF near Hardua	5.6 km in NNW direction
	Surma RF	8.5 km in NE direction
	Bhaiswahi khap RF	8.5 km in SW direction
	Darodi RF	12.3 km in SSE direction
	Mudera PF	6.5 km in SE direction
	PF near Bhaiswahi	12.5 km in SSE direction
	Badera PF	13.5 km in SE direction
	Katni PF	11.5 km in SE direction
	Jiwara RF	12.0 km in ESE direction
Goindra PF	12.6 km in E direction	
Name of Important Rivers/ Nallahs/ Tanks/ Spring/ Lakes etc within 15km	Aloni river Katni nadi Tons River Kevlari Nalla	About 10.2 km in W direction About 9.5 km in SSE direction About 2.9 km in NNW direction About 5.0 km in ESE direction
Topography of ML area	Highest Elevation - 394 AMSL towards north Lowest Elevation 390 m A.M.S.L. in south	
Name of mineral mined	Limestone and Dolomite	
Rate of Production (TPA)	1,60,000 TPA	
Life of mine	10 Years	
Method of Mining	Opencast Other than Fully Mechanized Mining	

Ground water level	40 - 45 m bgl (345 to 350 m AMSL)
Ultimate depth of mine	Up to 356m AMSL
Water Requirement & Source	Total water requirement for dust suppression, plantation and drinking is 22.0KLD. Water will be sourced from bore wells for drinking and domestic purpose, while dust suppression water used from mine sump
Manpower Requirement	50
Total Working Days annually	275
Cost of project	Rs.1.01 Crores

PP has submitted the EIA report vide letter dated 27/07/2016 which was forwarded by SEIAA vide letter no. 2884/SEIAA/16 dated 02/08/2016 and the case was scheduled for the presentation in the 49th SEAC-II meeting dated-19/09/2016 wherein it was observed that: *The nearest railway station is at Jhukehi, which is 4 km away from the site in west direction. The nearest airport is Khajuraho at 97.0 km in south west direction. Nearest highway is NH 7 is about 5.0 km in west direction. The nearest town is Katni at a distance of 24.0 km. Life of the mine is 10 years. Ultimate depth of the mine is 34m bgl and water table of the area varies from 40m to 45 m bgl. Controlled blasting will be carried out. Conceptual land uses at different stage are given below:*

S.No.	Area	Existing	5th Year end	Mine Life End
1	Total area excavated (broken)	4.20	5.26	(6.40)
2	Area fully mined out (out of 1)	0.50	0.50	(6.40)
3	Area fully reclaimed (Backfilled out of 2)	Nil	Nil	(2.10)
4	Area rehabilitated out of 3 by Afforestation	NA	Nil	2.10
5	Area rehabilitated by water harvesting	Nil	Nil	4.30
6	Total area under dumps	1.45	1.26	Nil
7	Area under Road	0.10	0.10	Nil
8	Plantation	0.10	0.75	1.02
9	Area Under infrastructure	Nil	0.05	Nil
10	Undisturbed	1.57	Nil	Nil
	Total			7.42

The EIA was presented by the PP and their consultant wherein it was submitted by the PP that OB will be stacked for the initial 05 years and later on it will be simultaneously backfilled in the mined out area. After presentation, PP was asked to submit following information:

- 1. Justify the life of the mine is 10 years instead of 26 years as per submitted presentation.*
- 2. Production figures duly authenticated by the competent authority since from 1994 should be provided.*

3. *Environmental policy of the company should be submitted by PP.*
4. *Justification for water demand calculation w.r.t number of tankers, capacity and length of the haul road.*
5. *Revised EMP & CSR with its budgetary provisions & list of all effected villages.*
6. *Surface map showing the location of garland drains & settling pits with their dimensions be submitted.*

PP has submitted the response on above quarries vide letter dated 14/02/2017 which was placed before the committee. PP and their consultant made query reply presentation which was found satisfactory and acceptable by committee. The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Transportation of minerals shall not be carried out through forest area.
6. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease.
7. PP shall also cover the entire land with plantation which is in possession which is located in between the 04 part of the lease area.
8. The OB (if any) should be properly stacked inside the ML area in barrier zone and disposed off as per the submitted plan. PP shall bound to compliance the final closure plan as approved by the IBM
9. Production of Limestone and Dolomite Mine shall be as per the mining plan with quantity not exceeding 1, 60,000 TPA.
10. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) including the village side to provide additional protection in one year only.
11. Authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.

12. As proposed, garland drains all around the lease boundary (02mWX01mD) shall be provided along with 04 settling tanks (three of 20mX06mX03m and one of 25mX06mX03m) with two bunds of 5.5mX1.5M for proper sedimentation and retention connected with garland drains shall be provided.
13. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
14. Fixed typed sprinklers should be provided on 500 meter long 06 meter wide haul roads. However, regular water spraying should be practiced on 1200 meter long 06 meter wide transportation road for dust suppression.
15. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
16. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
17. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
18. The commitments made in the public hearing are to be fulfilled by the PP.
19. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
20. PP will comply with all the commitments made in by the letter dated 14/02/2017.

4. Case No. 5106/2016 M/s J.K. Minerals, Post Box No. 1, Main Road, Balaghat (MP)-481001 Prior Environment Clearance for Manganese Ore mine in an area of 33.00 ha. (Expansion from 50,000 TPA to 80,000 TPA) at Village-G.F. Sonewani, Tehsil-Waraseoni, District-Balaghat (MP)(EIA Consultant:M/s CES, Bhopal)

This is case of Manganese Ore Mining for enhancement in production capacity form 50,000 TPA to 80,000 TPA. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Village-G.F. Sonewani, Tehsil-Waraseoni, District-Balaghat (MP) in 33.0 ha. The project requires prior EC before commencement of any activity at site.

The case was presented by the PP and their consultant for TOR to carryout EIA study in the 19th SEAC-II meeting dated-23/04/2016. The committee after deliberations decided that the standard TOR prescribed by MoEF&CC may be issued for conducting EIA studies along with following additional TOR's:

1. It being an existing mine having EC, PP should submit certified compliance report of previous EC conditions from MoEF&CC.
2. Details of balance reserves, proposed production capacity and anticipated life of mine are provided in the EIA report.
3. Process of sand stowing with respect to recycling of mine wastes.
4. Alternatives in place of sand stowing should also be discussed in the EIA.
5. Arrangements made for control of pollution at all the transfers points and working phase should be provided in the EIA.
6. Copy of survey report of ventilation system submitted to DGMS should be provided with EIA report.
7. Copy of survey report of DGMS mentioning violations (if any) should be provided with EIA report.
8. One or Two AAQMS should be positioned on transportation route and photographs should be taken during environmental monitoring.
9. Disposal plan of reject stone be disced in the EIA.
10. Plantation schedule and year wise plantation details are provided in the EIA.

PP has submitted EIA vide letter no.-11/05/2017 which was forwarded by the SEIAA vide letter no.-423, dated-12/05/2017.

The case was presented by the PP and their consultant wherein following details were submitted by the PP:

Particulars	Details	Block-I	Block-II
Locations			
A. Forest range		G. F. Sonewani	
B. Tehsil		Waraseoni	
C. District		Balaghat	
D. State		Madhya Pradesh	
Toposheet No.		550/13	

Latitude		21 ⁰ 51'47.4" to 21 ⁰ 52'02.3"	21 ⁰ 52'38.5" to
Longitude		N 79 ⁰ 56'44.2" to 79 ⁰ 57'03.4"	21 ⁰ 52'58.8" N 79 ⁰ 58'17.0" to 79 ⁰ 58'35.2" E
General ground level MSL		353 m	375m
Temperature		Min: 8.5 ⁰ C and Max: 47.5 ⁰ C	
Nearest Highway	Katangi- Lalburra Road	2.25km – SSW	3.50km - ESE
Nearest Railway Station	Chote Kochewahi	8.50km	10.75km
Nearest Airport	Nagpur	126.0km	
Nearest Tourist Place		None within 10km radius	
Archaeological Important Place		None within 10km radius	
National park/Wild Life Sanctuaries		None within 10km radius	
Reserved / Protected Forest		G. F. Sonewani RF	
Nearest major city with 100000 population		None within 10km radius	
Nearest Town / City within 10km radius		None within 10km radius	
Nearest village		Penditola- 1.30km – W	Kauritola – 3.25km – ESE
Nearest River	Sarathi River	7.40km- N	5.50km - NE
Nearest Lake/ Ponds	Katngajhari Canal Chapa Tank Katanghari Tank Kas Nalla Dhokriya Nalla Tondiya Nalla Sarathi Tank Kamti Talab Water Reservoir	2.30km - SSE 2.75km - WSW 1.75km - SSE 6.40km- S 4.40km - SE 5.50km -E 7.0km – NNE 6.50km – E 2.90km - E	3.80km - SSW 5.50km - WSW 3.50km - SSW 8.0km - S 7.25km- SE 3.75km- SE 4.70km- N 4.50km- ESE 1.50km- SSE
Nearest Hill Ranges		G. F. Sonewani	
Source of Water for mine		Dug well, Hand pump, Sump, Settling tank, abandoned pit	
Other mines located within 10km radius		1. Pacific Export, Netra 2. A. P. Travedi Sons, Ramrama 43.086ha	

		3. J. K. Minerals, Katangjhari - I 4. J. K. Minerals, Katagjhari -II 5. Vijay Khandelwal, Botejhari 6. Sandesh Developers, Kamthi 7. J. K. Minerals, G. F. Sonewani, 10.0ha
Industry located within 10km radius		None

It was reported by the PP that

- The originally lease was sanctioned for 10 years from 01.07.1982 to 30.06.1992 and after that lease has been renewed for further 7 year from 30.06.1992 to 29.06.1999. After that in year 2001, lease area further renewed for 20 year upto 29.06.2019. Since the Govt. of India amended Mines and Mineral Development Act 1957 now called MMRD 2015 under section 8 A (5), the mining period is now 50 years from lease sanction date i.e. 01.07.1982 to 29.06.2032 in case of subject proposal.
- The lease area comes under forest land and PP has already been obtained forest clearance from MoEF.
- The mine is being operated with underground method.
- No other lease area is located within 500m radius.
- The Certified compliance report has already been obtained from MoEF&CC towards previous EC dated 31.03.2016 and it's found satisfactory.
- The scheme of mining with progressive mine closure plan has been approved by IBM, Nagpur.
- Reserve detail has been discussed and found satisfactory, which is as per the approved mining plan. Geo technical details were discussed and found satisfactory considering proposed bottom area of the ultimate pit.

S. No.	Particulars	Details	
		Block-1	Block-2
1.	Type of Mine	Underground	
2.	Mining Lease Area	33.0 ha	
		18.0 ha	15.0ha
3.	Existing Pits & Quarries	2.9511ha by opencast working	
		2.0043ha	0.9468ha
4.	Existing Dumps	5.6202ha	
		0.2690ha	5.3512ha
5.	Existing Infrastructure	0.1559ha	
		0.0559ha	0.10ha
6.	Existing roads	0.9759ha	
		0.4959ha	0.48ha
7.	Existing storage of rejects	0.7788ha	

		0.5088ha	0.27ha
8.	Mineral Storage	2.9183 ha	
		1.4783ha	1.44ha
9.	Existing Plantation	10.06ha	
		5.35ha	4.71ha
10.	Water body	1.25ha	
		0.75ha	0.50ha
11.	Existing backfilled area	0.2055ha	
		0.2055ha	Nil
12.	Mineable Reserve	1365940.80MT	
		13,28,455.80MT	37,485.00MT
13.	Ultimate depth of mining	Upto 252m MSL	Upto 272m MSL
14.	Method of mining	Fully mechanised	
15.	Present capacity of mines	50000 metric tonnes per annum	
16.	Proposed Capacity of Mine	80000 metric tonnes per annum	
17.	Expected Life of Mines	18 years	
18	Lease Period	upto 2032	
22	Stripping Ratio	1:0.1	
23	Existing mode to transportation of Manganese ore	Road	
24	Area to be covered under dumps at the end of conceptual period	0.2690ha	5.3512ha
25	Area covered under pit	2.0043ha	0.9468ha
26	Area to be reclaimed by lease period end	1.0ha	Nil
27	Area to be covered under plantation by lease period end	15.2500 ha	
28	Area to be covered under water reservoir by lease period end	1.50 ha	
30	Ground water table		
	Monsoon period	8m bgl	
	Dry month	10m bgl	
31	Production per day in MT	244	23
32	Truck/dumper required per day @ 24MT	10	01

Present locations to underground working

PIT NO		MSL Top (Roof) in mtrs	MSL Bottom (Roof) in mtrs	Depth in mtrs
	Vertical Shafts			
1	Tendu shaft	343.21	324.61	18.60
1	Manway shaft	349	331	18

3	Vertical shaft	349.988	305	44.988
3	Ventilation shaft	324.3	311.23	13.07
	INCLINES			
1	1 Incline RL	342	339.7	-
2	K Incline RL	334.85	332.85	55
3	W6 Incline RL	323	321	130

Geotechnical details of the mining project

Summarised of geological reserves and mineable reserves For Block _I	
Particulate	Details
Earlier mining scheme	
Total Proved geological reserve	13,42,063.00 T
Total Probable geological reserves	3,56,328.00T
Total geological reserves	16,98,391.00
Depleted during past SOM working	75,371.50T
In current SOM period	
Proved geological category	16,81,506.00T
Geological reserves in part of the mineral bearing area	16,81,506.00 MT
Less ore reserves trapped in 7.5 m mining limit zone along the Mining Lease boundary on Eastern, Western & Northern boundary=820m L x 7.5m B x 6m (Average) Th x 3B.D.	1,10,700.00 MT
Less ore trapped in Post Pillar 3m L x 3m B x 12m Th x 3B.D. x 16 No.	5,184.00MT
Less Levels & Winzes 3756m L x 6 area Sq. m.x 3B.D.	67,608.00MT

Less stoping	21,952.00MT
Available mineable reserves	14,76,062.00MT
Saleable ore available @90% recovery (70% graded and 20% sub-graded)	13,28,455.80 MT (10,33,243.40+295212.40)
10% reject	1,47,606.20MT
Therefore mineable reserve	13,28,455.80MT
Summarised of geological reserves and mineable reserves For Block _II	
Particulate	Details
Earlier mining scheme	
Total Proved geological reserve	44,339.00 T
Depleted during past SOM working	33,840.50T
In current SOM period	
Geological reserves in part of the mineral bearing area	63,840.00 MT
Less ore reserves trapped in 7.5 m mining limit zone along the Mining Lease boundary on Western boundary=118m L x 7.5m B x 4m (Average) Th x 3.5B.D.	12,390.00 MT
Less earlier development (Levels & Winzes) 3m W x 2m H x 340m Lx 3.5 B.D.	7,140.00MT
Less ore trapped Rib Pillar along Incline P2/INC2 38m L x 5m W x 4m Th x 3.5 BD	2,600.00MT
Available mineable reserves	41650.00MT
Saleable ore available @90% recovery (70% graded and 20% sub-graded)	37485.00 MT (29155 + 8330.00)
10% reject	4165.00MT
Therefore mineable reserve	37485.00 MT

Geological reserves in part of the mineral bearing area	63,840.00 MT
Less ore reserves trapped in 7.5 m mining limit zone along the Mining Lease boundary on Western boundary=118m L x 7.5m B x 4m (Average) Th x 3.5B.D.	12,390.00 MT
Total minable reserves (Block-I)	13,28,455.80
Total minable reserves (Block-II)	37485.00
Total mineable reserves (both block)	13,65,940.80 MT
Total production of saleable ore (both block) in SOM period	3,37,133.75 MT
Balance reserves in both block	10,28,807.05MT
Hence mine life @80000MTPA	5+ $10,28,807.05/80000 = 12.86$
Thus total mine life	5+ 12.86 = 17.86 says 18 years

Underground mining

For block-I

Most of the development work is proposed by drives, x-cuts, winzes/raises in the ore body itself and the development work yields production. As such no waste is expected to be generated. Basic parameters of underground mining will remain unchanged in general unless special difficulties are presented in the course of mining.

- The stoping operation has been started on completion of development up to 7.5 meters from western boundary of lease area. The method of stoping proposed to be followed is flat back Cut & fill method. The fill used will be sand and waste material generated in stopes.
- Temporary support of stope back shall be done by roof-bolts of 1.5m length spaced at 1m grid pattern. Where necessary additional support/pillar shall be given to ensure safety.
- The ore broken in stopes is hoisted to upper level by a hoist through skip which unloads into a tub. The loaded tub is trammed to grizzly at that level and unloaded in bin from where it is hoisted to surface for further processing.
- Similar method of stoping is proposed to be followed in Pit No.:1 and Pit No.:3. A pillar of about 10m shall be left unmined on either side (East & West) of Pit No.: 3 in P3/W6 incline. So that these entries could be used to access Ore deposit beyond north of present Lease boundary.

Present mining method for block-II

There are three pits in Block II. Pit no.1 has old workings filled with water. Pit no. 2 has Pillars formed by levels and winzes/ raises ready for stoping. Pit no.3 has been worked out fully

Development:

The mine is developed by levels about 15 meters apart along dip of ore body and by winzes/raises apart about 15 meters apart along the level drive, thus forming blocks of about 30m x 30 m for stoping activity. The size of the drive is 3 meter wide and 2 meter high. Similarly size of winze/raise is 3 meters along strike and 2 meters across dip.

Proposed mining method for block-II

- Most of the development work is proposed by drives, x-cuts, winzes/raises in the ore body itself and the development work yields production. As such no waste is expected to be generated. Basic parameters of underground mining will remain unchanged in general unless special difficulties are presented in the course of mining.
- The stoping operation has been started on completion of development up to 7.5 meters from western boundary of lease area. The method of stoping proposed to be followed is flat back cut & fill method. The fill used will be sand and waste material generated in stopes.
- Temporary support of stope back shall be done by roof –bolts of 1.5m length spaced at 1m grid pattern. Where necessary additional support shall be given to ensure safety. The ore broken in stopes is hoisted to upper level by a hoist through skip which unloads into a tub. The loaded tub is trammed to grizzly at that level and unloaded in bin from where it is hoisted to surface for further processing.
- Similar method of stoping is proposed to be followed in Pit No.1 and Pit No.3. Required permission from IBM & DGMS shall be obtained prior to starting of stoping operation. A pillar of about 5 m shall be left unmined on south-west of main entry i.e. Incline-2, so that this entry could be used to access Ore deposit beyond west of present Lease boundary. Necessary application for lease is already submitted by the lessee.

Description of underground working**Stoping method**

The present available information indicates possibility of “Two Stoping” methods and they are: “Horizontal Cut & Fill” for Ore bodies having dip of more than 45°. This is again divided in two types viz. :

- Ore bodies of thickness less than 10 meters. In this case the length of stop will be along the strike.
- Ore bodies of thickness more than 10 meters. In this case the length of stope will be at right angle (90°) to the strike, with barrier pillar of “Ore” in between two stopes.

- Stoping of ore bodies dipping at less than 45° angle”
- “Breast Stoping (Modified)” with “Dry Filling” or “Sand Stowing” for Ore bodies of thickness up to maximum of 2.5 meters.
- “Room & Pillar” or “Post Pillar” for Ore bodies of thickness more than 2.5 meters.

After carrying out the exploration the stopes will be developed and stoping permission will be as per Rules applicable at the time of stoping.

UNDERGROUND TRANSPORTATION DETAILS

For Block –I:

There are three hoists from surface to underground. Pit No.1 main incline 60 H.P with a speed of 60m/min., Pit No. 3 vertical shaft -40HP speed of 40m/min and Pit No. 3 Winze 6 - 60 H.P, with a speed of 60m/Min. Maximum distance from which Ore is to be hoisted to surface is 200m in Pit no. 3 winze 6, cycle time in this situation will be loading + acceleration time + Deceleration Time + unloading time + Max. Speed travel time. Maximum speed travel time will be at the most $200/60 = 3.33$ Min. Taking acceleration + deceleration Time as 20% of full speed time and 1Min for loading (from chute) and unloading (self- tipping). Total cycle time is $3.33 + 0.66 + 1 = 5$ min. Therefore no. of cycle per hour = $60/5 = 12$. No. of cycle /shift = $12 \times 7 = 84$ and as the skips attached are 1 T capacity hoisting capacity of each hoist = 84T/shift. Capacity of each hoist i.e. main incline at Pit no. 1 and W6 at Pit no. 3 is $84 \times 3 = 242$ T/day or $242 \times 300 = 72600$ T/year.

Maximum ROM to be hoisted from Pit no.1 = 40,000 MT/year

Similarly hoisting capacity and maximum ROM to be hoisted from Pit no.3 is also same and hence the hoisting capacity is more than adequate. Travelling way for men is separate, i.e. different from hoisting inclines. Therefore hoisting inclines are for material lowering and hoisting. As the maximum requirement of hoisting per year incline is only about 40000 T/ year against the capacity of 72600 T, there is more than adequate hoisting capacity.

For Block-II:

There are two hoists from surface to underground. Pit No.1:- Main incline KI--4 has a 60 H.P with a speed of 60m/min. & Pit No.2- Incline no.2 has - 60HP with a speed of 60m/min. Maximum distance from which Ore is to be hoisted to surface is 100m.

Cycle time of hoisting-

- Cycle time in this situation = Loading time + acceleration time + Deceleration Time + unloading time + Max. Speed travel time.
- Maximum speed travel time will be $100/60 = 1.66$ min.
- Taking acceleration + deceleration Time as 20% of full speed time = 0.33min.
- Attachment and detachment of loaded and empty tubs at transit points, say 3Min
- Total cycle time is $1.66 + 0.33 + 3 = 5$ min.
- Therefore no. of cycle per hour = $60/5 = 12$.
- No. of cycle /shift = $12 \times 7 = 84$
- Capacity of the Tub attached = 1 MT
- Therefore, hoisting capacity of each 60 hp hoist = 84MT/shift
- Peak load of hoisting- Maximum production proposed is 14000 MTPA = 47 MTPD.

Thus, the mine is equipped with adequate capacity of hoisting .

VENTILATION PLAN

Ventilation: An auxiliary ventilation fan is installed and sufficient air is forced through plastic ducts/ tubes to reach the facing Block-I

Natural ventilation has been established in all the workings from Vertical Shaft and from Incline. At all the dead ends air quantity & velocity studies has been conducted to know the outcome. The ventilation surveys have been conducted in each quarter. Flow of the air i.e. direction (Intake and Return) is observed on periodical basis as well as daily basis. Present intake quantity of air in each direction is more than 7.5m^3 per second. As per ventilation standards, air requirement as per safety norms is 6.0cum/sec/person in underground tunnel. Maximum 60 man power work during a shift in underground working, hence total quantity of air is required 360cum/sec. Two exhaust fans installed at mine. One exhaust fan located in pit no. 1 with capacity of 833cum/min and second exhaust fan located at pit no. 3 with capacity of 1250cum/min.

Intake air

1. Vertical Shaft
2. Incline

Return air

Winze

Ventilation planning

Steps in ventilation planning: Based on mine layout no. size and position of openings, method of mining and projected working at various stages of mine up to 5 year as given in the ventilation mine plan. Lay down ventilation standards to be achieved on the basis of Reg. 131 and 144 of MMR 1961. As per above regulation.

CO₂----0.4-0.5% by volume for u/g mine air.

O₂-----19-20% by volume of u/g mine air.

N₂-----78% by volume of u/g mine air

Humidity

Wet bulb temperature not exceeding 33.5°c & dry bulb temperature not exceeding 30.5°c. Arrangements are made to ventilate the same with a current of air moving at a speed of not less than 1m/s.

Velocity of air at different places in mine

1. Shaft with men winding-12 m/s
2. Haulage road way-8 m/s
3. Other development places stopes etc.-4 m/s

Calculation of Air Quantity

To supply the fresh air in adequate quantity to the working places in order to achieve and keep the standard of ventilation maintained at every time in mine .It is necessary to calculate the quantity of air on the basis of

Breathable air-0.5 m³/min/man when % of carbon dioxides not more than 0.5% in fresh air

O₂%-----19% in fresh air

To get the planned production and development requirement of man power 60 man/shift.

So Quantity of air required =60x0.5m³/min =30m³/min maximum

On the basis of dilution of various gas as produce due to blasting .In solid blasting, ANFO based explosive produce noxious gas=800-900 liters/kg of explosive

For planned production level maximum of explosive used in u/g mine/shift= 2 (face) x 7Kg/face
= 14.00 kg explosive

Total quantity of noxious gas produced in a shift
= 14 x800=11200 litter/1000=11.20m³

Volume of mixing zone $V_m = 2.4 \times 2.0 \times 8 = 38.4 \text{ m}^3$

Assuming length of mixing zone = 15 m for development needing, and length of mixing zone in stope = 10 m

For one face of blast

$Q = 2.3 V_m/t \text{ Log } (CO/CP) + (V - V_m/t) \text{ m}^3/\text{min}$

Where V_m = Volume of mixing zone (m^3)

V = Volume of nitrous fume = 0.8 to 0.9 m^3/kg

CO = initial concentration of nitrous fume

Details of Fan							
Location	Make	Motor	Capacity KW/HP	Frame	RPM	Capacity of air m^3/hr	Water gauge
Pit-1	Crompton Greaves	415V	7.3/10	132mm	1455	50000	50mm
Pit 3	Bharat Bijlee	Induction	18.5/25		1460	75000	50mm

ILLUMINATION DETAILS

Adequate general lighting is provided on the surface at every place like shunting point, Adequate general lighting is provided on the surface at every place like shunting point, loading unloading point, marshaling yard etc. and every place where persons have to work and at below ground at every landing, pit bottom, travelling road way, pumping stations, first aid room etc.

Sand stowing

- There are two sand stations – one for stopes in Pit no 1 and other for stopes in Pit no.3. Water and sand are mixed at the sand station and allowed to flow down a pipe line that takes to the stope where sand is to be filled. Water percolates down and passes through the barrier with weeping holes to the sump at lowest level – 4th levels. The sand stowing water is pumped up by pumps to surface and re-circulated.
- Stopping/slicing operation shall start from the lowest level (4th level) in western side mine lease boundary. The level shall be filled with sand hydraulically up to 1.5 from back/roof. Then take 1st slice by drilling 2m long with 0.5 to 0.6 m burden and 1 to 1.2 m

spacing up to 2m height. The slice shall be driven from western boundary. After every blast dressing of back and side shall be done and rock bolts shall be fixed in a pattern of 1m x 1m as per approved SSR. Likewise slice length of 30 m shall be driven additionally wooden cogs shall be provided along H/W side at a distance of 3 m between the cogs. The muck shall then be removed by extending the track line, load it into the cars and hoist it up to 1 level through tigger haulage to transfer it to main incline.

- After completion of slice, the voids shall be filled with sand hydraulically up to the back/roof. Sand and water filling ratio is 1: 3. So we required 1m³ of sand filling 3000 Ltr. of water rate of sand filling 2m³/hr.
- In this case thickness of ore body is more than 3m the ore body shall be extracted in two lifts. The upper lift shall be extracted after filling of voids of first lift. Heightening shall be done again from out by side and track line shall be re-laid over the stowed sand of first lift. Wherever thickness of ore body is more than 4m cable bolts shall be set at 2m x 2m interval and a rock bolts at the center such that the cable bolts in the back/hang wall up to 1m in the roof.
- Before starting a new slice, the voids of the previous slice shall be filled sand hydraulically and supports created as per approved SSR.
- After complete extraction of slice and the voids are filled up, second slice shall be worked by driving a slice of 2m height over the first slice.
- After completion of slice, the voids shall then be filled up in a manner as explained at clause (a) (b).
- The operation shall be repeated until extraction of pillar is completed.

ROOF SUPPORT PLAN

Roof Support plan:

Rock bolts of 1.5 meter length, 20 mm. dia. are used for roof support on 1 meter grid pattern. Additional support is installed if safety considerations demand. Good quality cement capsules having diameter 20 mm shall be used for grouting the bolts. Each bolt shall take at least 2 tonnes of load in an hour, 4 tones of load in 4 hours and 6 tonnes of load in 8 hours after their installation. The timber used in the construction of chocks/ cogs shall not be less than 1.20 m in length. No timber which is less than 15 cm in diameter shall be used for support. The lids and wedges used with props shall have a width not less than diameter of prop.

This support system will be applied to the stoping area from 1st level to 2nd level in dip direction and 10m west from P3W6 incline to 10.00m. East from P3W3 incline in strike direction by cut and fills method in pit. No. 3.

Support of the back/roof:

- The back of the excavated area shall be kept supported by fully grouted cable bolts on a grid pattern of 2.0m X 2.0m with additional 1.5m long fully grouted steel roof bolt in the centre of the grid.
- The cable bolts placed in the back shall be at least 6m in length and 16mm in diameter. Length of cable bolts in the back at no time shall be less than 3m. Each cable bolt shall be capable of bearing at least 15Tonnes of load. The cable bolts shall be installed in such a way that the bolt is anchored at least 2.0m in the back/hang wall.
- The distance between cable bolt and footwall side shall in no case be more than 2.0m
- In the freshly exposed roof, before putting cable bolts the area shall be supported by chocks and props as per requirement.
- The first row of cable/rock bolt from the face shall not be more than 2.0m from the face/front end of the slice at any time.

Support of the Winze, Raises & Drives etc

- Hanging wall/back of winzes/raises/ drives shall be supported by full column grouted rock bolts at least 1.5m length and not less than 20mm dia, set at an interval of 1.0m between the bolts in the same row. A bearing plate not less than 10cm sq and 5mm thick shall be used for tightening the rock bolts.
- The junctions shall be provided with 10% extra bolts.

Support of working face (slices)

- Before opening a slice, the junction shall be supported by wooden chock. Freshly exposed roof shall be supported by wooden props set a distance of not more than 1.5m between the props in the same row and between the rows up to 1.5m of the face. As soon as face advances, the back shall be supported by suitable cable bolts and rock bolts. They shall be kept tight against the roof/overhang to ensure maximum contact between timber and the supported mass.
- During stripping of ore, stope back shall be supported by cable bolting in grid pattern of 2m x 2m and rock bolts to be provided in the centre of 04 cable bolts.
- Maximum distance between the last row of rock bolts and the face shall not be more than 1.5m at any point of time.
- Additional support as may be required depending of ground conditions shall be provided.

Mineral beneficiation

- After excavation of Mn ore, sizing will be carried out by crusher. At the mine head, the mineral beneficiation consists of breaking and sizing of ROM, separation in various sizes by screening etc. will be done manually. No other chemical process is involved.

- The overall recovery from ROM is 90%. Mineral beneficiation will be carried out by gravitational floating system. This is a conventional gravitational separation process for low to high grade Mn ore below 25mm. The ROM below 25 mm is put under feeder then mechanically it is rolled over conveyor the belt to the gravitational separator assembly which consists of sieves, diaphragm and vertical moving oscillator.
- The screened ROM come in contact with water pressure and vertical oscillating movement and by the end of this process the high density material gets settled at the bottom of the tank while low density material is collected at higher level.

The beneficiation of low/ medium grade Mn ore broadly consist of operations like

1. Wet screening
2. Hump breaking
3. De-sliming
4. Physical separation of gangue material through spiral separator or tabling thereby achieving the desired grade.

The ore contains natural fines and lumps. The Clay lumps are ground to 1 mm size in order to achieve maximum liberation of MnO₂

The natural fines and ground ore together are subjected to wet screening and de-sliming in order to maintain proper feed grade and size suitable for gravity. The gravity/ physical separation circuit consisting of spiral separator is designed to maximize the MnO₂ recovery and to achieve minimum production cost.

Equipments

Hooper , Belt feeder , Belt conveyor , Wet vibrating screen, Lump breaker , Slurry pumps , hydro Cyclones, Spiral separator, Water pump

PP has also submitted the MoEF&CC compliance report issued vide letter no. 254 dated 21/03/2016 which is found satisfactory as per the recommendations of inspecting officer. The EIA/EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

The EIA/EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

1. PP shall responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. Transportation of material shall be done in covered vehicles.
3. Transportation of minerals shall not be carried out through forest area.
4. Necessary consents shall be obtained from MPPCB and the air/ water pollution control measures have to be installed as per the recommendation of MPPCB.
5. Curtaining of site shall be done through thick plantation all around the boundaries of the lease area.
6. The OB should be properly stacked inside the ML area in barrier zone and disposed of as per the submitted plan. All the waste dumps should be stabilized and compacted properly by appropriate methods and water spraying should be carried out during the handling of waste dumps and muck pile to avoid fugitive emissions.
7. Stone pitching should be carried out for the stability of the slopes of settling pits.
8. Water sprinkling arrangement through pipeline should be provided at unloading point of underground material and all other dust prone area.
9. For underground (U/g) operations, mechanical ventilation should be provided (Veq at the rate of 0.92 to 0.99) in all working shifts through vertical shaft and incline and ventilation survey should be conducted on monthly basis and flow of air (intake and return) should be monitored as per DGMS norms.
10. For mining operations following standard illumination should be provided as per DGMS norms:

ILLUMINATION STANDARDS				
SURFACE LIGHTING				
Sl. No.	Place / Area to be illuminated	Manner in which it is to be illuminated	Minimum Standard of illumination	Illumination Standards
1	Area where Excavator or other excavation machine works.	So as to cover the depth & height through which the machinery operates.	10.0	10.0

2	Places where manual work is done.	So as to illuminate the full height of the rig.	5.0 - 10.0	5.0 - 10.0
3	Places where loading, unloading or transfer, loading of dumpers, trucks or train is carried on.	To be provided at level of the surface on which such work is done.	3.0	3.0
4	Truck haulage roads	To be provided at level of the road.	0.5 - 3.0	0.5 - 3.0
5	Permanent paths for use of persons employed etc.	To provide sufficient lighting in the path.	0.3	0.3
6	Vertical shaft pit top	To provide sufficient lighting.	0.5	0.5
7	No. of Incline pit top	To provide sufficient lighting in the pit.	0.5	0.5
8	Winder / Haulage Road	So that to cover the entire haul road.	0.5	0.5
9	Siding	So that to cover the entire siding.	0.5	0.5
1	Roads	To provide sufficient lighting in the roads.	0.2	0.2
UNDERGROUND LIGHTING				
1	Rail haulage track in the underground	To be provided at the level of rail heads.	0.5	0.5
2	Incline no. travelling road way	To provide sufficient lighting in the road way.	0.5	0.5
3	No. of incline pit bottom	To provide sufficient lighting in the incline pit bottom.	1.5	1.5
4	Vertical shaft bottom	To provide sufficient lighting in the vertical shaft bottom.	1.5	1.5

11. For roof support system, as proposed steel rods should be at least 1.50 meter long with minimum 20mm diameter and the diameter of holes should be 32mm. the load bearing capacity of each bolt shall be 02 tonnes of load in one hour, 04 tonnes of load in 04 hours and 06 tonnes of load in 08 hours.
12. The back of the excavated area shall be supported by fully grouted bolts as per suggestion of the RMR study by CMRI Nagpur. Each cable bolt shall be capable of bearing at least 25 tonnes of load.

13. The hanging wall shall be supported by rock bolts at least 1.5 meter long fully grouted steel roof bolt at maximum interval of 2.0m x 2.0m in grid pattern. The bolts shall be installed perpendicular to the foliation plan of the rock mass with one row of chocks shall be provided at an interval of 3.0meter all along the hang wall side in the stope as and when required or as per suggestion of the RMR study by CMRI Nagpur.
14. The cable bolts place Inthe back shall be at least 6m in length and 16mm in diameter. Length of cable bolts in the back at no time shall be less than 3m. Each cable bolt shall be capable of bearing at least 15Tonnes of load. The cable bolts shall be installed in such a way that the bolt in anchored at least 2.0m in the back/hangwall.
15. The freshly exposed footwall area will be supported if required with cable bolts of suitable length and the distance between the cable bolt and footwall shall in no case be more than 2.0 meters. If required, inclined cable bolts shall also be provided to ensure the same. If clay bands/ geological disturbance exposed in the footwall, the side shall be immediately supported by 2.0m long fully grouted steel bolts in a grid pattern of 2.0m x 2.0m. the bolts shall be installed perpendicular to foliation of the rock mass.
16. Hanging wall/back of winzes/raises/ drives shall be supported by full column grouted rock bolts at least 1.5m length and not less than 20mm dia, set at an interval of 1.0m between the bolts in the same row.
17. For working face, during stripping of ore, stope back shall be supported by cable bolting in grid pattern of 2m x 2m and rock bolts to be provided in the centre of 04 cable bolts. Maximum distance between the last row of rock bolts and the face shall not be more than 1.5m at any point of time
18. Wet drilling system and controlled delay blasting with low charge (if required) as prescribed by DGMS should be practiced.
19. Production of Manganese Ore shall be as per mining plan with quantity not exceeding 80,000 TPA.
20. Safety distance between U/g and mined out O/c pits shall be maintained to prevent entering of water in U/g operation. In this regard, all the norms stipulated by DGMS should be complied.
21. Stowing shall be carried out as per the plan submitted in EIA using fine of mica schist and sand. Any other material such as waste should be used with mica schist for stowing only after confirming its suitability by lechate study.
22. Blast vibration study should be carried out ones in a year and their record shall be maintained.
23. PP should carryout load testing after 30 minutes of bolting.

24. Garland drains and settling pit should be provided to avoid silt discharge. As proposed, existing garland drain of each dump will further be connected to the settling tank to take care of dump wash off. The desilted water shall be used for green belt developemnt, dust suppression, beneficiation plant, sand stowing and remianing water shall be darined in to local nala after providing proper settling time.
25. Truck Mounted water tanker sprinkler should be provided on haul road. However, regular water spraying should also be practiced on transport road up to state highway for dust suppression.
26. For management of mine water in underground operation four underground sump of suitable size with water pump of suitable capacity have been provided , hence desiltaion shall be ensured of the provided sumps.
27. The proposed plantation scheme should be carried out and PP would maintain the plants including casualty replacement.
28. Appropriate activities shall be taken up for social up – liftment of the region. Funds reserved towards the same shall be utilized through Gram Panchayat.
29. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
30. The commitments made in the public hearing are to be fulfilled by the PP.
31. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product – mix in proposed mining unit shall require a fresh Environment Clearance.

5. Case No. 5536/17 M/s Rajendra Singh Kiledar Construction Pvt. Ltd, Bazar Chouk, Baishdehi, DIst. Betul, MP – 460001 Prior Environment Clearance for Sand Auction quarry in an area of 5.520 ha. (10300 cum per annum) (Khasra no. 434, 308) at Village- Barchhi, Tehsil - Amla, Dist. Betul (MP).

This is case of Sand Auction. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 434, 308) at Village- Barchhi, Tehsil - Amla, Dist. Betul (MP) 5.520 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide through Ekal Praman-

Patr letter no. 1263 dated: 19/08/16, has reported that there is no more mine operating or proposed within 500 meters around the said mine.

Earlier this case was scheduled in 75th SEAC-II meeting dated-04/05/2017 wherein it was recorded that: *Today, this case was scheduled again for presentation wherein it is recorded that Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. PP was also absent in the 71st SEAC-II meeting dated-10/04/2017. Committee decided to give last chance to PP for making presentation in the subsequent meetings of SEAC after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.*

The case was scheduled again for presentation wherein it is observed that neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Earlier PP was also absent in the 71st SEAC-II meeting dated-10/04/2017 & 75th SEAC-II meeting dated-04/05/2017. Committee decided that since sufficient opportunities have been given to the PP for appraisal and consideration of the project wherein PP remain absent, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

6. Case No. 5537/17 M/s Rajendra Singh Kiledar Construction Pvt. Ltd, Bazar Chouk, Baishdehi, Dist. Betul, MP – 460001 Prior Environment Clearance for Sand Auction quarry in an area of 9.330 ha. (9000 cum per annum) (Khasra no. 1) at Village- Sontalai, Tehsil - Amla, Dist. Betul (MP).

This is case of Sand Auction. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located (Khasra no. 1) at Village- Sontalai, Tehsil - Amla, Dist. Betul (MP) 9.330 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 1265 dated: 19/08/16, has reported that there is no more mine operating or proposed within 500 meters around the said mine.

Earlier this case was scheduled in 75th SEAC-II meeting dated-04/05/2017 wherein it was recorded that: *Today, this case was scheduled again for presentation wherein it is recorded that Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the*

deliberation. PP was also absent in the 71st SEAC-II meeting dated-10/04/2017. Committee decided to give last chance to PP for making presentation in the subsequent meetings of SEAC after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was scheduled again for presentation wherein it is observed that neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Earlier PP was also absent in the 71st SEAC-II meeting dated-10/04/2017 & 75th SEAC-II meeting dated-04/05/2017. Committee decided that since sufficient opportunities have been given to the PP for appraisal and consideration of the project wherein PP remain absent, the case shall be returned to SEIAA for delisting assuming that PP is not interested to continue with the project.

7. Case No. - 5555/2017 Shri Ishwar Singh Dangra, Owner, Vill. Panthpiplai, Ujjain, Dist. Indore, MP – 453551 Prior Environment Clearance for Sand deposit quarry in an area of 11.812 Ha. (3,780 cum per annum) (Khasra no. 286, 287, 288, 288/324 & 10) at Village-Chimli/Sinlodakhurd, Tehsil -Sanwer, Dist. Indore (MP)

This is case of Sand deposit quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no. 286, 287, 288, 288/324 & 10 Village-Chimli/Sinlodakhurd, Tehsil -Sanwer, Dist. Indore (M.P) 11.812 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 307 dated: 03/03/17, has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total area of 17.39 ha including this mine.

The case was presented by the PP and their consultant, wherein it was observed that according to the Google image of January, 2017 approximately 70 % of lease area is submerged in water. PP during presentation submits that the sand is available and if the Google image of January, 2016 also shows the availability of sand. Committee after discussion concludes that the required volume i.e 3780 cum/year can be evacuated from the remaining 30% lease area. The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B':

- Production of Sand as per mine plan with quantity not exceeding 3,780 cum/year.

- District Authority should record the deposition of sand in the lease area at an interval of 100 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- No diversion of active channel should be allowed for mining.

8. Case No.4203/15 Shri Kailash Chandra Gupta, M/s Esteem Infrabuild Pvt. Ltd., Sub Lessee, M/s M.P. State Mining Corp. Ltd., P-4, Lal Bahadur Nagar, Durgapura, Jaipur Prior Environment Clearance for approval of Sand Quarry in an area of 23.810 ha. (2,38,100 cum/year) at Khasra no.-1576, Village-Ajnaar, Tehsil-Lahar, District-Bhind (MP)

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-1576, Village-Ajnaar, Tehsil-Lahar, District-Bhind (MP) 23.810 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no.22, dated: 19/08/15, has reported that there are 02 more mines operating or proposed within 1000 meters around the said mine with total area of 36.810 ha including this mine.

Earlier this case was discussed in 67th SEAC-II meeting dated-07/02/2017 wherein it was recorded that:

This case was discussed in 61st SEAC-II meeting dated-25/11/16 wherein it was recorded that:

Please refer the minutes of 257th SEAC meeting dated-04/01/2016 where TOR were approved

As per the above, the TOR was issued to the PP vide letter no. 486 dated 02/03/2016.

MP State Mining Corporation Limited, Bhopal vide their letter no.403 dated 09/08/2016 has also informed that it is a case of non-cluster as per GOI, MoEF&CC notification dated 01/07/2016 as this lease was sanctioned prior to the 09/09/2013. Concerned Mining Officer vide letter no.1355

dated 30/07/2016 has issued a certificate stating that above lease was sanctioned vide order no. F4-1/2010/12/01 dated 22/09/2010 and thus does not falls under the perview of cluster approach as per GOI, MoEF&CC notification dated 01/07/2016.

SEIAA vide letter no. 3173/SEIAA/16 dated 16/08/2016 and 3240/SEIAA/16 dated 26/08/2016 has also instructed to appraise such cases on priority as per GOI, MoEF&CC notification dated 01/07/2016 and thus committee decided that as per the above instructions of SEIAA, all such cases should be appraised on the priority on the basis the lease documents available in the file/representation submitted by the PP.

This case was scheduled again for presentation in the 61st SEAC II meeting dated 25/11/2016 wherein it is recorded that Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. PP was also absent in the 53rd SEAC-II meeting dated-13/10/16. Committee decided to give last chance to PP for making presentation in the subsequent meetings of SEAC after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was presented by the PP and their consultant wherein during presentation it was observed by the committee that PP so far has not furnished the replenishment plan duly approved by the competent authority. The committee after deliberations decided that as per the policy decision taken by the SEIAA (284th. MEETING 23/01/2016) all the cases of sand mining are now to be appraised based on the revised mine plan incorporating the additional chapter on annual replenishment of sand in the leased area and the normal water level prevalent in the lean season and decided that the case file may be sent back to SEIAA for want of revised mine plan incorporating the additional chapter on annual replenishment of sand in the leased area and the normal water level prevalent in the lean season and appraisal may be carried out only after receipt of revised mine plan with annual replenishment.

PP has submitted the replenishment Plan vide letter dated-10/04/2017 which was forwarded by the SEIAA vide letter No.-356, dated-08/05/2017 and based on the above case was again scheduled for presentation.

The case was presenteted by the PP and their consultant, wherein it was observed that according to the Google image of January, 2017 approximately 60 % of lease area is submerged in water and on the banks of the area good coverage of green (agricultural crop) could be seen. However as per the Production Operational Plan submitted by the PP 5.990 ha area is available for sand evacuation with 02 mts depth and the only 1,19,800 cum/year volume of sand can be evacuated from this lease area as mid stream mining is not allowed. The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend

the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B':

- Production of Sand as per mine plan with quantity not exceeding 1,19,800 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 100 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- No diversion of active channel should be allowed for mining.

9. Case No.-5504/2016 Shri Muzaffar Khan S/o Shri Mubarik Khan, Vill. Ringnod, Tehsil - Jaora, Dist. Ratlam, MP. Prior Environment Clearance for Sand Deposit in an area of 8.0 ha. (2,150 cum per annum) (Khasra no. 149) at Village- Alampur Thikariya, Tehsil - Jaora, Dist. Ratlam (MP).

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site Khasra no. 149) at Village- Alampur Thikariya, Tehsil - Jaora, Dist. Ratlam (MP) 8.00 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer through Ekal Praman-Patr vides letter no.-559 dated: 02/08/16, has reported that there are no more mines operating or proposed within 500 meters around the said mine.

Earlier this case was discussed in 74th SEAC-II meeting dated-03/05/2017 wherein it was observed that: *The case was scheduled again for presentation wherein it is recorded that Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Earlier PP was also absent in the 68th SEAC-II meeting dated-06/03/2017, 70th SEAC-II meeting dated-15/03/2017 & 72nd SEAC-II meeting dated-11/04/2017. Committee decided that since sufficient opportunities have been given to the PP for appraisal and*

consideration of the project wherein PP remain absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was presented by the PP and their consultant, wherein it was observed that according to the Google image of December, 2015 approximately 30% of lease area is submerged in water. Committee after discussion decided that since the required volume of sand is only 2,150 cum/year, which can be evacuated from the remaining 70% of the lease area. The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B':

- Production of Sand as per mine plan with quantity not exceeding 2,150 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 50 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- No diversion of active channel should be allowed for mining.

DISCUSSION ON QUERY RESPONSE SUBMITTED BY PP OR THE PROJECT ISSUES RECEIVED FROM SEIAA / PENDING FROM A LONG TIME FOR WANT OF DESIRED INFORMATION

10. **Case No. 3389/15 Shri Vishwas Parmani, Partner, M/s Associates Commerce, Sub Lessee, M.P. State Mining Corporation Ltd., Nehru Ward, Pipariya, District-Hoshangabad (MP)-466001 Prior E.Cfor approval of Aanchalkheda (III) River Sand Mine in an area of 10.00 ha. (2,25,000 cum/year) at Khasra No.-87/2, Vill.-Aanchalkheda, Teh.-Babai, District-Hoshangabad (MP) .**

This is case of Aanchalkheda (III) River Sand Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.-87/2, Vill.-

Aanchalkheda, Teh.-Babai, District-Hoshangabad (MP) 10.00 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no.2762, dated: 16/07/2015 has reported that there are 06 more mines operating or proposed within 1000 meters around the said mine with total area of 373.158 ha including this mine.

Earlier this case was discussed in 53rd SEAC-II meeting dated 13/10/2016 wherein it was observed that: please refer the minutes of 257th SEAC meeting dated-04/01/2016 wherein TOR was approved

As per the above, the TOR was issued to the PP vide letter no. 498 dated 02/03/2016.

MP State Mining Corporation Limited, Bhopal vide their letter no.397 dated 09/08/2016 has also informed that it is a case of non-cluster as per GOI, MoEF&CC notification dated 01/07/2016 as this lease was sanctioned prior to the 09/09/2013. Concerned Mining Officer vide letter no.485 dated 29/07/2016 has issued a certificate stating that above lease was sanctioned vide order no. F4-1/2010/12/01 dated 22/09/2010 and thus does not falls under the perview of cluster approach as per GOI, MoEF&CC notification dated 01/07/2016.

SEIAA vide letter no. 3173/SEIAA/16 dated 16/08/2016 and 3240/SEIAA/16 dated 26/08/2016 has also instructed to appraise such cases on priority as per GOI, MoEF&CC notification dated 01/07/2016 and thus committee decided that as per the above instructions of SEIAA, all such cases should be appraised on the priority on the basis the lease documents available in the file/representation submitted by the PP.

The case was presented by the PP and their consultant in 53rd SEAC-II meeting dated 13/10/2016 wherein after presentation, PP was asked to submit following information:

1. Revised EMP with cost justification for dust suppression and road maintenance.
2. Water demand chart considering the volume of water required for dust suppression.

PP was also informed to submit above information vide letter no 1589 dated 06/12/2016 stating to submit the desired information and reminder was also given to the PP vide letter no. 313 dated 08/05/2017. PP so far has not submitted the desired informations and the case was placed before the committee. The committee observed that PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and

thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information.

11. Case No. – 2626/2015 Shri Pradeep Kumar Mittal, Director, M/s Balaji Marble and Tiles Pvt. Ltd., 11-12, Dunne Market, Jabalpur Road, Bargawan, Distt.-KatniChokra River Sand Quarry Lease Area - 5.500 ha.Capacity -1,56,750 cum/year, at Vill.-Chokra, Teh.-Singrauli, Distt.- Singrauli (M.P.)

This is case of Chokra River Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is at Khasra No.-381, Vill.-Chokra, Teh.-Singrauli, Distt.-Singrauli (M.P.) 5.500 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no.-1608 dated: 22/08/15 has reported that there is no more mine operating or proposed within 1000 meters around the said mine.

Earlier this case was discussed in 56th SEAC-II meeting dated-08/11/2016 wherein it was observed that:

The case was presented in 227th SEAC meeting dated 19/09/2015 wherein after deliberations it was observed that the production of 1,56,750 cum/year of sand is proposed but in mining plan evacuation of such excess quantity is not addressed properly. Thus PP was asked to submit revised evacuation plan with a copy of Khasra panchshala and recent photographs.

PP has submitted the desired documents and the case was presented in the 231st. SEAC meeting dated 27/10/2015 wherein after deliberation and presentation by PP, it was observed by committee that >50% of lease area falls in the water as per the co-ordinates provided by the PP Google image which is of pre monsoon season and mid stream mining is not allowed and thus the entire area does not seem to be minable. The photographs presented by the PP clearly indicated that no sand is available. Hence, committee after deliberations restricted the quantity to 75,000 cum/year.

The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B':

1. *Production of Stone not exceeding 75,000 cum/year as per mine plan.*

SEIAA vide letter no. 11664/SEIAA/16 dated 01/03/2016 has sent back the file to SEAC for re-appraisal of the case in compliance of Hon'ble NGT order dated 27/01/2016 wherein it is stated that :-

"It has been prayed that the application submitted by the Appellant for the grant of EC for 1.56 lakh cubic meters of sand was considered and EC has been granted for half the quantity without assigning any reason. It has been submitted that the Appellant has made a representation for being permitted to surrender the EC and in the alternate the EC for full capacity may be directed after due consideration. It has been submitted that despite the fact that representation was submitted on 02.12.2015, no decision has been taken so far.

Vide our order dated 23.12.2015, we had issued notice to the Respondents including SEIAA. However, no reply has been filed so far.

This Tribunal in Appeal No. 53/2015 in the matter of Rajamal Vs. MP SEIAA & Ors., while considering the matter pertaining to grant of ECs by SEIAA upon the recommendations of SEAC, has already directed that in the light of the Circular dated 24.12.2013, one of the relevant consideration for the grant of EC should be based upon the consideration of the annual replenishment of sand in the area and not merely on the basis of availability of resource. Since, from the record, it is not known whether the order has been passed in favour of the Appellant directing EC for less than half of the quantity as prayed, has been based upon any of the aforesaid consideration, we would direct that a fresh order by SEAC on the aforesaid principles be passed and based upon the said recommendations, SEIAA to take a decision in the matter. The impugned order, as prayed by the Learned Counsel for the Appellant is set aside. Since, no mining activity has been commenced, so far, we direct that a decision in this behalf be taken by the authorities as early as possible and preferably within 60 days of communication of this order by the Appellant.

The SEIAA is accordingly directed to decide the application in accordance with law. The Appeal No. 55/2015 accordingly stands disposed of".

For compliance of above direction, the case was scheduled in 14th SEAC II meeting dated 22/03/2016 wherein it was observed that "neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in the next meetings of SEAC for compliance of Hon'ble NGT order dated 27/01/2016".

The case was again scheduled for the presentation in the 15th SEAC II meeting dated 27/03/2016 wherein PP and their consultant came for the presentation. PP was asked to provide details of annual replenishment of sand in the area. PP informed that so far they have not got the annual replenishment plan approved from the competent authority. It was informed

to the PP that SEIAA in its 284th meeting dated 23/01/2016 has taken following policy decision in response to the directives of Hon'ble NGT in their order dated 06/01/2016 in Appeal No. 53/2015:-

“All cases pertaining to sand mining, the mining plan to be submitted by Director, Geology and Mining should include details about annual replenishment of sand in the leased area and the normal water level prevalent in the lean season. The cases recommended by SEAC and under process in SEIAA will be considered only after the revised mining plan duly incorporating the additional chapters as directed above by the Hon'ble NGT is submitted by the PP and duly approved by the competent authority. The cases will be reappraised by SEAC on the basis of revised mining plan and in accordance with the directives of the Hon'ble NGT”.

Thus committee asked PP to submit the revised mine plan incorporating the additional chapter on annual replenishment of sand in the leased area and the normal water level prevalent in the lean season as per the above policy decision through SEIAA.

The case was scheduled for the presentation in the 27th SEAC II meeting dated 25/05/2016 for compliance of NGT order dated 27/01/2016 but PP or their authorized representatives remain absent. In the last meeting PP was asked to submit the revised mine plan incorporating the additional chapter on annual replenishment of sand in the leased area and the normal water level prevalent in the lean season as per the above policy decision of SEIAA but so far PP has not submitted the desired information and same was communicated to the PP vides letter no. 793 dated 25/04/2016.

The committee after deliberations decided that PP may be given last opportunity to submit revised mine plan incorporating the additional chapter on annual replenishment of sand in the leased area and the normal water level prevalent in the lean season thorough SEIAA and till that time case may be deferred to SEIAA.

PP has submitted replenishment plan on 03/09/2016 which is forwarded by the SEIAA vide letter no. 3914 dated 06/10/2016.

The case was presented by the PP and their consultant. During discussion, it was observed by the committee that in the annual replenishment plan submitted by the PP and approved by the competent authority, it is mentioned that “annual production capacity is 1,56,750 cum/year which will be excavated at the QL area will not be replenished by sand”, which reflects that as per the annual replenishment plan the desired volume of sand will not be available for

evacuation of sand from the allotted lease. The above lease is allotted/sanctioned by the office of the collector, singrauli vide letter no. 1550 dated 30/10/2014. The committee after deliberations decided that Collector, Singrauli may be requested to submit an inspection report regarding the present status of sand availability at this particular lease and volume of sand evacuated during last 05 years from this lease for further consideration of the project.

Committee further observed that replenishment plan stating “annual production capacity is 1,56,750 cum/year which will be excavated at the QL area will not be replenished by sand”, which is somewhat unusual because in mine plan of same QL (at page no.7) it is stated that “ thickness of the deposit varies from 3-4 meters. During monsoon this bed replenished to a large extent due to erosion by heavy flow in higher reaches” and both these plans are approved by the competent authority i.e. Regional Head, Geology and Mining, Rewa. Committee after discussion decided that the comments on above replenishment plan and its recommendations may be obtained from Director, Geology & Mining and Regional Head, Geology and Mining, Rewa for further consideration of this project.

The Dy. Director, Regional Office, Geology and Mining, Rewa and PP vide letter no. 1645 dated 06/12/2016 and 315 dated 08/05/2017 were reminded to submit the above information for further consideration of the project but till date no information is submitted by them. The above case was placed before the committee as desired information is not submitted since long. The committee observed that since desired information is not submitted nor any one has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 for not submitting the desired information or SEIAA may also write a letter to Dy. Director, Regional Office, Geology and Mining, Rewa for providing desired information for further consideration of the project.

12. Case No. - 3073/2015 Shri Amit Khampariya, M/s Sonbhadra Tolls, Gardha, Jabalpur (M.P.)-482003 Sand Quarry Lease Area - 5.260 Ha., Capacity - 1,50,000 cum/year, Khasra No.- 1, 121 Vill.-Jamudi, Teh.-Kotma, District-Anuppur (M.P.).

This is a case of mining of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.1, 121 at Village-Jamudi, Tehsil-Kotma, District-Anuppur (M.P.) in 5.260 ha; The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 442 dated: 01/4/15 has reported that there is 01 more mine operating or proposed within 1000 meters around the said mine and total lease area is 10.260 ha. The committee was of the view that the mining of opposed quantity will not be environmentally sustainable.

Earlier this case was discussed in 66th SEAC-II meeting dated-06/02/2017 wherein it was observed that: this case was discussed in 205th SEAC meeting dated-20/07/15 wherein it was recorded that: *“This is a case of mining of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.1, 121 at Village-Jamudi, Tehsil-Kotma, District-Anuppur (M.P.) in 5.260 ha; the project requires prior EC before commencement of any activity at site.*

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 442 dated: 01/4/15 has reported that there is 01 more mine operating or proposed within 1000 meters around the said mine and total lease area is 10.260 ha. The committee was of the view that the mining of proposed quantity will not be environmentally sustainable.

The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure ‘B’:

- 1. Evacuation of sand shall be as per the approved mining plan not exceeding 80000 cum / Year as per the request of the PP.”*

The case was presented by the PP and their consultant in 66th SEAC-II meeting dated-06/02/2017 and during presentation it was observed by the Google image of Nov. 2015 and April 2014 that a stream is crossing the lease area, hence after discussion committee decided to obtain revised operational production plan of the lease area leaving the submerged area for further consideration of this project.

PP was also informed to submit above information vide letter no 166 dated 09/03/2017 stating to submit the desired information and reminder was also given to the PP vide letter no. 293 dated 08/05/2017. PP so far has not submitted the desired informations and the case was placed before the committee. The committee observed that PP has neither submitted the desired

information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information.

13. Case No. - 3077/2015 Shri Amit Khampariya, M/s Sonbhadra Tolls, Gardha, Jabalpur (M.P.). Sand Quarry Lease Area - 5.00 Ha., Capacity - 1,50,000 cum/year) at Khasra No.- .- 688, Vill.-Gulidand, Teh.-Kotma, District-Anuppur (M.P.)

This is a case of mining of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No .- 688, at Village- Gulidand, Tehsil-Kotma, District-Anuppur (M.P.) in 5.00 ha., The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 440, dated: 01/04/15, has reported that there are no more mines operating or proposed within 1000 meters around the said mine.

Earlier this case was discussed in 66th SEAC-II meeting dated-06/02/2017 wherein it was observed that: this case was discussed in 205th SEAC meeting dated-20/07/15 wherein it was recorded that: *“This is a case of mining of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. - 688, at Village-Gulidand, Tehsil-Kotma, District-Anuppur (M.P.) in 5.00 ha, the project requires prior EC before commencement of any activity at site.*

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no. 440, dated: 01/04/15, has reported that there is 01 more mine operating or proposed within 1000 meters around the said mine totaling to more than 5 ha.

Scrutiny of the project reveals the site falls within 5 km of Madhya Pradesh-Chhatisgarh Interstate boundary. Thus by virtue of location and total lease area (more than 5 Ha) within 1000 meter the project attracts the General Conditions, hence falls under Category-A. Committee decided to return the case to SEIAA for delisting.”

The case was presented by the PP and their consultant 66th SEAC-II meeting dated-06/02/2017 and during presentation it was observed by the Google image of Nov. 2015 that a stream is flowing between the lease area, hence after discussion committee decided to obtain revised operational production plan of the lease area leaving the submerged area for further consideration of this project.

PP was also informed to submit above information vide letter no 164 dated 09/03/2017 stating to submit the desired information and reminder was also given to the PP vide letter no. 288 dated 08/05/2017. PP so far has not submitted the desired informations and the case was placed before the committee. The committee observed that PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information.

14. Case No.-5491/2016 Shri Sunil Singh, Sub Lessee of MPSMCL, 141, Gram Guda, Gwalior, MP – 452001 Prior Environment Clearance for Sand Deposit Quarry in an area of 24.900 ha. (99,600 cum per annum) (Khasra no. 01) at Village- Dangra(B), Tehsil - Datia, Dist. Datia (MP).

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 01) at Village- Dangra(B), Tehsil - Datia, Dist. Datia (MP) 24.900 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer through Ekal pramn-patr vide letter no.-1005, dated: 10/08/16, has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 60.25 ha including this mine.

Earlier this case was discussed in 65th SEAC-II meeting dated-17/01/2017 wherein it was observed that: *The case was presented by the PP and their consultant wherein during presentation it was observed by the committee that according to the Google image of Feb.2016, most parts of the lease area is submerged in water. Hence committee after discussion decided to obtain the concerned Collector's opinion regarding submergence of entire lease in river water and whether sand evacuation is possible or not from this lease and PP was also instructed to submit the recent photographs of the site showing the availability of sand duly countersigned by the OIC, MPSMC.*

The Collector, Gwalior vide letter no. 99 dated 03/02/2017 and PP vide letter no. 95 dated 03/02/2017 were requested to submit the above information for further consideration of the project but till date no information is submitted by them. A reminder was also sent to PP vide letter no. 290 dated 08/05/2017. The above case was placed before the committee as desired information is not submitted since long. The committee observed that neither the PP nor the concern collector has provided the desired information. Since desired information is not submitted by PP and Collector nor has requested for providing additional time to submit desired information committee decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information or SEIAA may write a letter to The District Collector, Gwalior for providing desired information for further consideration of the project.

15. Case No.-5495/2016 Mr. Devendra Sharma, S/o Shri H. Sharma, CL-89 DD Nagar, Gwalior, MP – 474003 (SIA/MP/MIN/61623/2017). Prior Environment Clearance for Sand Quarry Deposit in an area of 10.75 ha. (Expansion capacity from 2,62,143 to 3,13,500 cum per annum) (Khasra no. 1) at Village- Bhina, Tehsil - Ajaygarh, Dist. Panna.

This is case of Sand Auctioned Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is at Khasra no. 1 Village- Bhina, Tehsil - Ajaygarh, Dist. Panna (MP) 10.75 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and RFO. Concerned Mining Officer vide letter no. 582 dated: 04/04/15 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

Earlier this case was discussed in 66th SEAC-II meeting dated-06/02/2017 wherein it was observed that: *The case was presented by the PP and their consultant and during presentation it was observed that since this case is for expansion of production capacity and some mineral has already been evacuated, hence committee after discussion decided to obtain following information from the PP:*

- 1. Year wise assessment sheet of production obtained till date to be submitted by the PP.*
- 2. Revised water demand chart w.r.t number of tankers and their capacity.*
- 3. Self attested compliance report of earlier EC conditions with documentary evidence and photos.*

4. *Compliance report of earlier EC conditions and consent conditions by concerned Regional Officer of MP Pollution Control Board.*
5. *Revised EMP & revised CSR as suggested by the committee during presentation.*

PP was also informed to submit above information vide letter no 168 dated 09/03/2017 stating to submit the desired information and reminder was also given to the PP vide letter no. 297 dated 08/05/2017. PP so far has not submitted the desired informations and the case was placed before the committee. The committee observed that PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information.

16. Case No. - 5488/2016 M/s Digiana Industries Pvt. Ltd, G-1, Sapna Chambers, 12/1 South Tukoganj, Indore, MP- 462001 Prior Environment Clearance for Sand Quarry in an area of 11.500 ha. (3,45,000 cum per annum) (Khasra no. 854) at Village- Baghari, Tehsil - Chandala, Dist. Chhatarpur (MP)

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 854) at Village- Baghari, Tehsil - Chandala, Dist. Chhatarpur (MP) 11.500 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer through Ekal pramn-patr vide letter no.-503, dated: 21/04/16, has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total area of 24.00 ha including this mine.

Earlier this case was discussed in 65th SEAC-II meeting dated-17/01/2017 wherein it was observed that: *The case was presented by the PP and their consultant where it was observed by the committee that as per the Google image of November 2016, some part of lease is submerged in water and entire lease area is calculated for the sand evacuation and no safety margins are left. Thus PP was asked to submit revised operational production map considering above issues for safe and sustainable mining.*

PP was also informed to submit above information vide letter no 97 dated 03/02/2017 stating to submit the desired information and reminder was also given to the PP vide letter no. 295 dated 08/05/2017. PP so far has not submitted the desired informations and the case was placed

before the committee. The committee observed that PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information.

17. Case No.5136/16 Shri Litesh Jha, Authorized Signatory, M/s Sainik Foods Pvt. Ltd., Sub Lessee of MPSMCL, H.I.G.D.-5, Dindayal Nagar, Phase-1, Kanth Road, Muradabad (UP)-462001 Prior Environment Clearance for River Sand Quarry in an area of 16.967 ha. (5,09,280 cum/year) at Khasra No. 58 at Village-Bedar, Tehsil-Vankhedi, District-Hoshangabad (MP)

This is case of **River Sand Quarry**. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. 58 at Village-Bedar, Tehsil-Vankhedi, District-Hoshangabad (MP) 16.967 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no.3183 dated: 12/02/2016 has reported that there are no more mines operating or proposed within 1000 meters around the said mine.

The case was presented by the PP and their consultant in the 20th SEAC II meeting dated 26/04/2016 wherein it was observed from the Google image based on the co-ordinate provided by the PP that QL is sanctioned just adjacent to the river bank covering entire river and sufficient safety area is not left from the bank and the allotted sand lease. Thus committee after deliberations decided that at least 20 meters area be left from the both sides of the banks as non-mining area to avoid bank erosion. Considering 20 meters area as non-mining area on the both sides, the entire lease area is not minable and thus approx. 15% of the area becomes non-minable and accordingly quantity is reduced to 4,40,000 cum/year. Other submissions made by PP were found satisfactory and acceptable and thus the committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B':

- Production of Sand as per mine plan with quantity not exceeding 4,40,000 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 100 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.

- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- No diversion of active channel should be allowed for mining.
- 20 meter area be left from the both side of the banks in the QL as no mining area to avoid bank erosion.

SEIAA vide letter no. 5316/SEIAA/17 dated 23/02/2017 has forwarded the representation submitted by PP which was placed before the committee. Committee on perusal of the case file and representation submitted by the PP observed that the production capacity has been reduced from 5,09,280 cum/year to 4,40,000 cum/year and observed that the above decision was taken in the 20th SEAC II meeting dated 26/04/2016 wherein the committee has justified the reason for deduction in sand volume. Thus committee after deliberations decided to stands by the recommendations made in the 20th SEAC II meeting dated 26/04/2016.

(Dr.Mohd. Akram Khan, Member)

(Mohd. Kasam Khan, Member)

(Prashant Shrivastava, Member)

(Rajendra Kumar Sharma, Member)

(Anil Kumar Sharma, Member)

(Dr.Sonal Mehta, Member)

(Dr. Navin Chandra, Chairman)

Following standard conditions shall be applicable for the mining projects of minor mineral in addition to the specific conditions:

Annexure- 'A'

Standard conditions applicable to Stone/Murram and Soil quarries:

1. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
2. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA
3. Transportation of material shall be done in covered vehicles.
4. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
5. Curtaining of site shall be done using appropriate media.
6. The proposed plantation should be carried out along with the mining @45 trees per hectare and PP would maintain the plants for five years including casualty replacement.
7. Transportation shall not be carried out through forest area.
8. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat.
9. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
10. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
11. PP should also maintain a log book containing annual details of tree plantation and casualty replacement.
12. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
13. Mining should be done as per the submitted land use plan submitted by PP.

Annexure- 'B'

Standard conditions applicable for the sand Mine Quarries*:

1. The amount towards reclamation of the land in MLA shall be carried out through the mining department; the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
2. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. The mining activity shall be done manually.
5. No heavy vehicles shall be allowed to enter the river bed and the transportation of the sand from the excavation pits of the leased area to the loading point shall be through trollies (tractor trollies) and not by heavy vehicles. Only registered tractor trollies which are having the necessary registration and permission for the aforesaid purpose under the Motor Vehicle Act and also insurance coverage for the same shall alone be used for said purpose.
6. Transport vehicles will be covered with tarpoline to minimize dust/sand particle emissions.
7. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
8. No Mining shall be carried out during Monsoon season.
9. The depth of mining shall be restricted to 3m or water level, whichever is less.
10. No in-stream mining shall be allowed.
11. The mining shall be carried out strictly as per the approved mining plan and ensure that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
12. Established water conveyance channels should not be relocated, straightened, or modified.
13. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
14. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
15. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
16. EC will be valid for mine lease period subject to a ceiling of 5 years.
17. Mining should be done as per the submitted land use plan submitted by PP.

Annexure- 'C'

Standard conditions applicable for the Khodu Bharu sand Mine Quarries*

1. Mining should be done only to the extent of reclaiming the agricultural land.
2. Only deposited sand is to be removed and no mining/digging below the ground level is allowed.
3. The amount towards reclamation of the land in MLA shall be carried out through the mining department; the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
4. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
5. The mining activity shall be done manually.
6. Heavy vehicles shall not be allowed for removal of sand.
7. The sand shall be transported by small trolleys up to the main transport vehicle.
8. Transport vehicles will be covered with tarpoline to minimize dust/sand particle emissions.
9. No Mining shall be carried out during Monsoon season.
10. PP shall take Socio-economic activity in the region through the 'Gram Panchayat'.
11. EC will be valid for mine lease period/mine plan subject to a ceiling of 5 years.
12. The mining shall be carried out strictly as per the approved mining plan.