

The 330th meeting of the State Expert Appraisal Committee (SEAC) was held on 24th October, 2018 under the Chairmanship of Mohd. Kasam Khan for the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohd. Akram Khan, Member.
2. Dr. A. K. Sharma, Member.
3. Shri Prasant Srivastava, Member.
4. Dr. R. Maheshwari, Member.
5. Dr. Jai Prakash Shukla, 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. 5534/17 M/s Shri Krishnadas Tikaram, Civil Line, Katni, MP. Prior Environment Clearance for Bauxite, Laterite and Fireclay Mine in an area of 3.417 ha. (25000 TPA) (Khasra no. 609, 610/1, 610/2) at Village- Naikin , Tehsil - Rampur Naikin, Dist. Sidhi (MP) (EIA Consultant: M/s Uplinka Solutions & Technology Pvt. Ltd., Noida).

This is case of Bauxite, Laterite and Fireclay Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no. 609, 610/1, 610/2) at Village- Naikin, Tehsil - Rampur Naikin, Dist. Sidhi (MP) 3.417 Ha. The project requires prior EC before commencement of any activity at site.

Salient Feature of the Project

Project Site	Village– Naikin, Tehsil- Rampur Naikin, District- Sidhi State: Madhya Pradesh
Site Coordinate	24°21'14.3" to 24°21'20.9"North 81°23'43.6" to 81°23'54.3"East
ML Area & Type of land	3.417 Ha of waste land
Name of Reserve Forest(s), Wild life Sanctuary/ National parks etc. within 15km	Son Ghariyal Wildlife Sanctuary =9.750 km Gobindgarh RF = 1.5 km in North Direction Gurh RF = 11.7 km in North East Direction Khairi RF = 8.3 Km in South East Direction Bardaila RF = 5.8 km in South East Direction Shikarganj RF =7.2 km in South East Direction Khainjua RF = 10.3 km in South East Direction

	Chandrehi RF = 9.0 Km in South East Direction Bakura Pahad = 9.5 km in South Direction Khainjua Pahad = 10.2 Km in South West Direction Kaimur Hills = 1.5 km in North Direction
Name of Important Rivers/ Nallahs/ Tanks/ Spring/ Lakes etc within 15km	Son River = 8.10 km in South East Direction Phapho Nalla = 2.0 km in South West Direction Sughara Nalla = 5.0 Km in South East Direction Kataha Nala = 2.0 Km in East Direction Marhawal Nalla = 5.0 km in South East Direction Pond = 1.30 Km in South Direction Canal = 5.0km in SW & 341 min North Direction. Banas River = 10.2 km in South East Direction.
Topography of ML area	Highest Elevation –318 m AMSL toward NW Direction Lowest Elevation - 313 m AMSL towards SE Direction
Name of mineral mined	Bauxite, Laterite & Fire Clay Mine
Rate of Production (TPA)	25000 TPA (Bauxite-24250 TPA & Fire Clay-750TPA)
Life of mine	9 Years
Method of Mining	Opencast other than fully mechanized Method
Ground water level	35- 40m bgl (378 to 382 m AMSL)
Ultimate depth of mine	13.0 m bgl or upto 305 m AMSL
Water Requirement & Source	Total water requirement for dust suppression, plantation and drinking is 9.0 KLD. Water will be sourced from bore wells for drinking and domestic purpose, while dust suppression water used from mine sump
Manpower Requirement	25
Total Working Days annually	275
Cost of project	Rs.1.0 Crore

The nearest railway station is Rewa at 25.0 km distance, Nearest Highway-75,2.7 km in South Direction, State Highway-9,4.0 km in South West Direction, Sidhi- Rewa Road at 2.70 km in South Direction.

Conceptual land uses at different stage are given below:

S. NO.	LAND USE	EXISTING	5 TH YEAR	MINE LIFE
1)	Total area excavated (broken)	1.75	2.159	2.90
2)	Area fully mined out (out of 1)	0.10	0.25	2.90
3)	Area fully reclaimed/ Backfilled (out of 2)	Nil	Nil	0.70

4)	Area rehabilitated out of 3 by afforestation (Out of 3)	NA	Nil	0.70
5)	Area reclaimed by water harvesting	Nil	Nil	2.20
6)	Total area under dumps	0.10	0.10	Nil
7)	Area under active dumps	0.10	Nil	Nil
8)	Area Under Mineral Stack	0.25	0.25	Nil
9)	Area under Road	0.10	0.10	Nil
10)	Area under Green belt (i.e plantation on area other than dump and backfilling area)	0.10	0.11	0.517
11)	Plantation over dump area	Nil	Nil	Nil
12)	Area under infrastructure	Nil	0.01	Nil
13)	Bund & Drain	Nil	0.35	Nil
14)	Undisturbed area	1.117	0.577	Nil

The case was presented by the PP and their consultant in 71st SEAC-II meeting dated 10/04/2017, wherein PP submitted that the lease area was initially granted for 20 years w.e.f 27.02.1977 to 26.02.1997. The same was renewed for 20 years period from 27.02.1997 till 26.02.2017. Mining Lease has been extended for 50 year period (as per MMDR Amendment Act 2015) from date of 1st grant i.e. 27.02.1977 to 26.02.2027. The Scheme of Mining along with progressive mine closure plan under Rule 12(3) of MCDR 1988 was approved by IBM vide letter no- MP/Sidhi/Bauxite/M-sch-53/2014-15/388 Jabalpur dated 28.01.2015. The ML area is mostly waste land. There is no forest land or any water body in the lease area. No national park or any eco sensitive area or Interstate boundary exists within 10 kms radius. Only Son Ghariyal Wildlife Sanctuary is present at 9.750 Km from the lease area. As per MoEFCC Notification dated 13 December 2016, Son Ghariyal Wildlife Sanctuary Eco Sensitive Zone has been notified as 1 km. Naikin village does not fall in list of villages within the Eco Sensitive Zone. The project hence falls under 'B' category as the general condition is not applicable. No forest land present within 250 m from the lease area and NOC has been obtained from the DFO, Sidhi. Opencast other than fully mechanized method of mining will be adopted in the lease area. Proposed Capacity of the project is 25000 TPA of Bauxite, Laterite & Fire Clay.

Committee after presentation decided that being it's a case of major mineral 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. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
3. Transportation plan & traffic management plan should be discussed in the EIA report.
4. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
5. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
6. Compliance of consent conditions duly authenticated by concerned Regional Officer, MP Pollution Control Board.
7. Year wise details of minerals already excavated till date should be submitted with EIA report.
8. Atleast 08 stations should be selected for monitoring with two stations on transportation route and results should be discussed in the EIA report.
9. Hydro geological study should be carried out if ground water intersection is proposed.
10. Top soil management plan should be addressed in EIA report.
11. Input data of modeling should be addressed in EIA along with this all back up calculation.
12. Onsite pictures of monitoring and survey along with date and time on photographs should be attached with the EIA report.
13. Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
14. Ground water table data should be compared with data of Central Ground Water Board authorities nearest sampling point.
15. Water quality of all the villages within 10 k.m radius should be studied and result should be incorporated in final EIA report.
16. Since the sanctioned lease area is only 3.417 ha thus area available for mining activities at pit bottom with justification should be discussed in EIA report.

PP has submitted the EIA report vide letter dated 09/10/2018 which was forwarded through SEIAA vide letter no.-1540 dated 12/10/2018.

The EIA was presented by the PP and their consultant. The salient features of the mine and other details which are given below:

Sl. No.	Particulars	Details
1.	1 st Mining Lease and its Renewal	M/s. Shri Krishnadas Tikaram for 20 years period w.e.f. year 27/02/1977 for an area of 4.247 ha and Bauxite & Laterite. 1st Renewal for years w.e.f. 27.02.1997 to 26.02.2017 over an area of 3.417 ha for Bauxite, Laterite and Fire clay as per state govt. vide order no 3-165/96/12/01 dated 04/06/2008.
2.	Mine lease period	ML extended for 50 years from date of 1 st grant i.e. 26.02.1977 to 25.02.2027
3.	Mining Plan Approval	Approved by IBM vide letter No. M.P./Sidhi/Bauxite/ MPLN/MOD-59/17-18 3358 dated 13/10/2017
4.	Forest NoC	Granted by DFO, Sidhi on 13/01/2016.
5.	TOR granted	TOR was granted by State Level Expert Appraisal Committee, Bhopal, vide letter No. 280/PS-MS/MPPCB/SEAC-II/M/TOR (71)/2017 dated 08.05.2017 (Case No. 5534/2017).
6.	Public hearing conducted	Public Hearing was held on 22 nd May 2018 at the Project site.

Mineral Resources :- Measured Mineral Resource of Bauxite (331):-

Measured Mineral Resource of Bauxite at start of mining lease :-

$$= 31000 \text{ sqm (Mineralised area)} \times 11.5\text{m (av. thck.)} \times 2.3 \text{ (B.D.)} \times 0.90 \text{ (Incidence)} = 737955 \text{ t.}$$

Bauxite depleted during lease period = 107507.932 t., Fire clay = 850.821 t. and Laterite = 2644.033 t. Total 111002.7 t..

Hence, Resource as on date = 737955 – 107507.032 = 630447.968 t.

Updated Mineral Resources by cross section area method –

Section Line	Sectional Area (sqm)	Influence (m)	Volume (m3)	Mineral Resource in tones
	A	B	C = A x B	D = C x B.D. (2.3) x 0.90 (Incidence)

Y - Y'	768	72	55296	114463
V - V'	1192	93	110856	229472
U - U'	1277	106	135362	280199
				624134

Feasibility Mineral Resource (211) :-

Calculated after deduction of all statutory barriers as per MMR 1961, MCR 1960 and MCDR 1988 and as per definition of Public works. Deduction = Length x width x Av. Thickness x B.D. x % recovery .

Deduction	Ore
Due to 7.5 m barrier as per MMR 1961	658m x 7.5m x 14m x 2.3 x 0.90 = 1,43,016 t.
Due to Slope stability	620m x 9.0m x 14.0m x 2.3 x 0.90 = 1,61,708 t.
Total deduction	143016 t. + 161708 t. = 3,04,724 t.

Proved Mineral Reserve of Bauxite:- 624134 t.– 304724 t. = 319410 t

Measured Mineral Resource of Laterite :- It has been noticed in 0.25 hec. area up to 1.50m thickness at top towards north near pillar-5. [2500 sqm (mineralised area) x 1.5m (av. thickness) x 2.7 (B.D.)] = 10125 t.

MINERAL RESERVE AS PER UNFC CLASSIFICATION

	UNFC Code	Quantity in million Tons	
		Bauxite	Laterite
A. Total Mineral Reserve			
Proved Mineral Reserve	111	0.319410	0
feasibility mineral resource	211	0.304724	0
Measured Mineral	331	0	0.010125

resource			
Total Reserves + Resources		0.624134	0.010125

Proposed method of mining:-

- Working will be carried out in one shift of 8 hours during day time only.
- All operation of mining such as development, winning of ore and loading will be carried out by mechanized means except sorting and loading of ore partially.
- No drilling and blasting is proposed.
- Systematic working will be done by formation of benches as per M.M.R. 1961.

The various activities proposed during mining is as under –

- (i) Removal of Top soil
- (ii) Development by removal of overburden.
- (iii) Sorting & Sizing
- (iv) Loading
- (vi) Transportation

1) Removal of Top soil – The top soil existing from 0,25m to 0,50m will be scrapped initially. This will be used for preparation of bund in boundary on which plantation will be done. This will also be used for leveling of backfilled area on which plantation will be done. This will be done by dozer or excavator cum loader of bucket capacity 0.9-1.2 cum.

2) Development by removal of overburden. - The development in OB besides removal of mine debris will be carried out by deployment of excavator cum loader. loading of OB will be done by loaders. . This will be done by excavator cum loader of bucket capacity 0.9-1.2 cum. The development in OB is proposed in 1 bench,

3) Development in Ore body. - The development will be done by excavator cum loader of bucket capacity 0.9-1.2 cum.

4) The high wall will be sloped at an angle of not more than 45 degrees from the horizontal.

5) All roads leading from the opencast workings to surface will be arranged to provide one way traffic. The haul road will be minimum 10m. wide and will have a minimum gradient of 1 in 16 while the ramp will be of gradient 1 in 10 .

6) Working of mine, as per approved plans and regularly updating the mine plans.

Occupational Health hazard:

Management will consider the following safety measures:

- The working will be done under the supervision of a Qualified Mines Manager.
- Adequate arrangements, to allay dry dust by wetting will be made on roads and benches where dumpers operate. Pre placement and periodic health check up
- Assessment of each and every incident
- Provide standard PPEs and ensure its uses. All protective equipment of a type approved by the DGMS. will be provided to the workers viz, foot wear, helmets, ear plug, dust mask, gloves, goggles, shin guards etc.
- An effective and clearly audible means of giving warning, in case of any hazard. Free passage way giving access to escape will be maintained for the use of all.
- The compliance of Safety Rules/Statutory Provisions will be implemented and regularly monitored. The posting of safety officer will be in accordance with the requirement of Mines Act and their duties and responsibilities shall be as defined thereof.

Safety Measures:-

- Permanent fencing will be provided at the top edge of opencast working .
- To keep all operations and methods of work under regular review for making necessary changes from the point of view of safety in the light of experience and up to date knowledge;
- To provide appropriate facilities for first aid and prompt treatment of injuries and illness at work;
- To provide appropriate instruction, training, retraining and supervision to employees in health and safety, first aid and to ensure that adequate publicity is given to these matters;
To allocate sufficient resources to maintain safe and healthy conditions of work;

TRAFFIC DURING MINE OPERATION

Sr. No.	Particular	Details
1.	Total Capacity of mine	25,000 TPA
2.	No. of working days	250
3.	Extraction & Transportation of mineral	100 TPD
4.	Working hours per day	8 hrs
5.	Capacity of the dumpers /Truck	16 t.
6.	Number of dumpers/trucks required /day	$100 / 16 = 6.25$ say 7.0
7.	Daily truck movement (to & fro)	$7 * 2 = 14$ Truck
8	Hourly truck movement @ 8hr a day	$14 / 8 = 1.75$ Say 2 no. (to & fro is 4)

Traffic Management:

- Fixed type sprinkler will be used for dust suppression.
- Proper route management of the traffic will be done for smooth traffic movement.
- On the both side of approach road plantation will be done.
- Only PUC certified vehicle will be used. Trained driver will be hired only .
- Transportation of ore to be done during day time in covered trucks only.
- The haul road will be compacted regularly.
- The transport road to Pakka road of length 50m will be maintained pakka and Rs 0.25 lakh will be spend annually

OB/WASTE MANAGEMENT –

Year	Top Soil (cum)		OB/Mine waste	
	Reuse/ spreading	Storage	Stacking	Backfilling
1 st	580	-	-	1208.55
2nd	817	-	-	1195
3rd	0	-	-	1212.5
4th	176	-	-	1208.1
5th	127	-	-	1208.1
Conceptual period	11000	-	-	20000

Schedule for greenbelt development

Year	Total Plantation	Area covered during the year		Transport route
		BF Area Nos. /Area (sqm)	Green belt Nos./Area (sqm)	
Up to 2 nd year	1017	-	517/5170	500
During Lease Period	2403	700/7000	Nil	1703
Total	3420	700/7000	517/5170	2203

PP and their consultant further stated that the top soil which is below just 0.2- 0.5 meter will be used for internally mine bonding and also used for proposed plantation and sub-soil shall

be applied for backfilling simultaneously. PP also committed that fixed type sprinklers will be used for dust suppression. During presentation it was observed that a canal is passing near the lease area for which PP submitted that it's a distribution canal of the main canal which is under construction for which committee recommends that no mining activity shall be carried out within 50 meters of canal excluding 7.5 meter buffer zone. After detail discussion, committee has asked the PP to submit the following information:

1. Revised EMP activities with appropriate budget.
2. Separate budget for fixed type sprinklers with specification.
3. No. of dumpers required for transportation of mineral.
4. Distance of working face and backfilling.
5. Commitment from PP for ZLD from the mine site.
6. Commitment from PP that no working near canal.
7. Revised plantation species as suggested during meeting by the committee.

PP has submitted the response of above quarries vide letter dated 24.10.2018 which was placed before the committee and the same found satisfactory. 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 for approval of Bauxite, Laterite and Fireclay Mine for 25000 TPA (Bauxite- 24250 TPA & Fire Clay- 750 TPA) in an area of 3.417 ha. (Khasra no. 609, 610/1, 610/2) at Village- Naikin, Tehsil - Rampur Naikin, Dist. Sidhi (MP) subject to the following special conditions:

(A) PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. Haul road and shall be compacted on regular interval and transport road will be made pucca (tar road) and shall be constructed prior to operation of mine.
8. PP will obtain other necessary clearances/NOC from respective authorities.

(B) MINING OPERATIONAL PHASE

9. No drilling and blasting shall be carried out.
10. No explosive will be stored at mine site.
11. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. 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) to provide additional protection in one year only.
12. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 3420 nos of trees will be planted along and within the ML.
13. Transportation of material shall be done in covered vehicles.
14. Transportation of minerals shall not be carried out through forest area.
15. The OB as over burden shall be reutilized for backfilling. PP shall bound to compliance the final closure plan as approved by the IBM.
16. Garland drain and bund along with settling tank will be maintained in the boundary side and around dump to prevent siltation of low lying areas and in rush of water into the mine. The size of the drain will be 900 m x 2 m x 1.5m. The settling tank will be one in number of size 15 x 5m x 3.0m. The size of the Garland drain will be 1709 sq.m X1.5 m =2563.5 m³ shall be provided for proper sedimentation.
17. No mine water shall be discharged outside of the lease and zero liquid discharge shall be maintained.
18. Transportation road shall be made pucca.
19. For dust suppression over head Sprinkler shall be provided while on transport road for dust suppression tankers shall be provided.
20. 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.
21. The existing and proposed land use plan of the mine is as follows:

Sr. No.	Particular	Existing	5th year end	Mine Life end
1.	Total area excavated (broken)	2.15	2.32	(2.90)
2.	Area fully mined out (out of 1)	0.45	0.70	(2.90)
3.	Area fully reclaimed (Backfilled out of 2)	0.25	0.45	(0.70)

4.	Area rehabilitated out of 3 by afforestation	NA	0.30	0.70
5.	Area reclaimed by water harvesting	Nil	Nil	2.20
6.	Total area under Dump	Nil	Nil	Nil
7.	Area under active dumps	Nil	Nil	Nil
8.	Area under mineral stack	0.25	0.25	Nil
9.	Area under Road	0.10	0.10	Nil
10.	Area under Green belt (i.e. plantation on area other than dump and backfilled area)	0.17	0.517	0.517
11.	Area under infrastructure	-	0.05	Nil
12.	Undisturbed area	0.747	0.18	Nil
	Total	3.417	3.417	3.417

22. 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.
23. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
24. The commitments made in the public hearing are to be fulfilled by the PP.
25. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
26. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.
27. The solar power will be used at the mine office for illumination.

(C) ENTIRE LIFE OF THE PROJECT

28. The proposed EMP cost is Rs. 6.0 lacks and Rs. 6.25 lacks /year are proposed as capital and recurring expenses respectively.

29. Under CSR activity, Rs. 2.50 lacks and Rs. 1.00 lacks /year are proposed as capital and recurring expenses respectively in different activities and should be implemented through respective committees.
30. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
31. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
32. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
33. PP will comply with all the commitments made vide letter dated 24.10.2018.
34. 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/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

2. Case No. - 5605/2017 Smt. Kala Singh, C/o Shri Ramayan Singh, 19, HIG "D" Deendayal Dham, Padra, Rewa, MP – 486001 Prior Environment Clearance for Limestone Mine in an area of 2.206 Ha.. (8539 Tonne per annum) (Khasra no. 85, 87) at Village- Bihra, Tehsil - Huzur, Dist. Rewa (MP).

This is case of Limestone Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 85, 87) at Village- Bihra, Tehsil - Huzur, Dist. Rewa (MP) 2.206 Ha. The project requires prior EC before commencement of any activity at site. PP has submitted ToR application forwarded by the SEIAA vide letter no. 1222 dated 28/11/2017.

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

Background of Project

S.No	Particulars	Details
1.	Lease area	2.206 ha
2.	Leasee	Smt. Kala Singh

3.	Lease Period	Upto year 2015
4.	Present status	Non operating
5.	Land Use	Pvt. Own land

Reserve of mineral Limestone & Dolomite

Measured Mineral Resources	331 Limestone – 224644 t
Prefeasibility Mineral resources	221- Limestone- 43348 t
Mineable Reserve	121- Limestone – 181296 t
Capacity of mine	8539 t - Limestone
Life of Mine	181296/ 8539= 21 years.

Salient features of the project

Name of the project	Bihra Limestone Mine
Location of Mine	Khasra No. 85, 87
Minerals to be mined out	Limestone
Method of mining	Open cast mechanized method
No. of working day in a year	300 days
Water requirement	5 kld
Source of water	Ground water/ mine pit water
Man power requirement	20 Nos.
Nearest City	Rewa- 12.6 km
Nearest Railway Station	Rewa- 10.0 km
Nearest Airport	Jabalpur- 200 km from the mines by road
Nearest Village	Bankuiya Village- at 1.50 km, Bihra Village – at 2.6 km
Nearest River /Nallah	Bichhiya River – at 11.6 km
Ecological Sensitive Zone	Not exists within 10 km radius

Conceptual Development

S.No	Heads	At Present in ha	At the end of 5 years in ha.	At the end of conceptual period in ha.
1.	Total area excavated	1.05	1.05	1.7373
2.	Area fully backfilling	-	-	0.7200

3.	Area reclaimed by water harvesting	-	-	0.9873
4.	Area rehabilitated by bench plantation	-	-	-
5.	Total area under dump	0.4238	0.1596	-
6.	Area under road	0.006	0.006	-
7.	Area under green belt	0.0	0.109	0.45
8.	Area under Infrastructure	0.0025	0.0025	-
9.	Virgin area	0.7237	0.766	0.4687
	Total area	2.206	2.206	2.206

During presentation PP submitted that they have already collected the monitoring data one year back and may be allowed to use this data in EIA for which committee recommends that atleast one month data of winter season shall be collected by the PP for validation.

It being a case of major minerals committee recommended to issue standard TOR prescribed by MoEF&CC with following additional TORs:-

1. One month monitoring data will be collected by the PP.
2. During monitoring activities, appropriate photographs with date should be taken by and submitted along with the EIA Report.
3. Compliance of consent conditions of the MP Pollution Control Board should be obtained from concerned Regional Officer.
4. Top soil management plan be discussed in the EIA report.
5. Ground water recharge study of the nearby area be carried out by the PP and same should be discussed in the EIA report.
6. Inventory of operating / proposed mines within 2 Km around the said mine should be provided in the EIA report.
7. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
8. Any alternate route avoiding the nearby habitations (if any).
9. Land use plan should be plotted on the map.
10. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CSR cost should be

detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.

11. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
12. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
13. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
14. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.

PP has submitted the EIA report vide letter dated 29/09/2018 which was forwarded through SEIAA vide letter no.-1465 dated 06/10/2018.

PP and their consultant presented the EIA presentation wherein after detail discussion committee has asked the PP to submit the following information:

1. Photographs of lat-long written mine pillars.
 2. Production details since mine inception.
 3. Commitment that it is semi- mechanized mine with details about level of mechanization and man-power deployment.
 4. Compliance of consent conditions of the MP Pollution Control Board should be obtained from concerned Regional Officer.
 5. Kachcha road (160 meters) shall be made pucca for which proposal with budgetary allocations shall be submitted.
 6. Revised water balance table.
 7. Revised plantation species as suggested by the committee.
 8. Revised re-structuring of Environmental Cell as suggested by the committee.
 9. Revised EMP activities with appropriate budget.
 10. Separate budget for Occupational health check-up.
3. **Case No. - 5744/2018 M/s Star Mines & Minerals, Shri Hemand Kumar Sharma, H.No. 2, Single Story, SBI Colony, Baldeobagh, Dist. Jabalpur, MP – 482002 Prior Environment Clearance for Basalt/Gitti Stone Mine in an area of 15.0 Ha. (42,475 cum per annum) (Khasra No. 01) at Village- Indrana, Tehsil - Majhauri, Dist. Jabalpur (MP)**

This is case of Basalt/Gitti Stone Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 01) at Village- Indrana, Tehsil - Majhauri, Dist.

Jabalpur (MP) 15.0 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office (Ekal Praman Patra) vide letter no.2878 dated:22/06/2018 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was scheduled for the presentation but 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 subsequent meetings after hearing from PP.

4. Case No.-5310/2016 Sunil Kumar Kalwani, Balaghat, and MP – 461223.Prior Environment Clearance for Manganese Ore Mines in an area of 3.238 ha. (2658 ton/year) at Khasra no.-237/1, 237/2, 238/1,238/2, 3, 239/3, 240/1-4-9-10-11, 251/2, Village-Arjuni, Tehsil - Katangi, Dist. Balaghat (MP). Env. Consultant:- M/s. Overseas Min-Tech Consultants, Jaipur

This is case of Manganese Ore Mines. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-237/1, 237/2, 238/1,238/2, 3, 239/3, 240/1-4-9-10-11, 251/2, Village-Arjuni, Tehsil - Katangi, Dist. Balaghat (MP) 3.238 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.1318 dated: 3/11/2005 has reported that there are 01 more mine operating or proposed within 500 meters around the said mine with total area of 11.328 ha including this mine.

The case was presented by the PP and their consultant in 49th SEAC-II meeting dated 19/09/2016, wherein it was recorded that: 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. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
3. Transportation plan & traffic management plan should be discussed in the EIA report.
4. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
5. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
6. Compliance of consent conditions of M. P. Pollution Control Board from concerned Regional Office.
7. Year wise details of minerals already excavated till date should be submitted with EIA report.
8. Some trees are in existence in the lease area thus PP should submit inventory of all the existing trees and if tree falling is proposed same should be discussed in EIA report.

PP has submitted the EIA report vide letter dated 25/08/2018 which was forwarded through SEIAA vide letter no.-1366 dated 10/09/2018.

The case was presented by the PP and their consultant wherein the EIA was presented by the PP and their consultant. The salient features of the mine and other details which are given below:

Name of the project	Arjuni Manganese Ore
Project Proponent	Shri Sunil Kumar Kalwani
Name of the Consultant	Overseas Min-Tech Consultants
Category/Item no. (in Schedule)	B1
Location of the Project	Khasra Number- 237/1, 237/2, 238/1, 238/2, 238/3, 240/1, 4/9/10,11, 251/2 , village Arjuni, in Tehsil Katangi, District Balaghat, Madhya Pradesh
Production Capacity/Mineable Reserve	Production – 2658 TPA /Mineable Reserve –12,490 MT Life of Mine : Approx 5.0 years
Project Cost	Rs. 0.50 Crores
Capital Cost -	Rs. 0.35 Crores

Recurring Cost	Rs. 7.0 Lac/annum
EMP Cost	Rs. 2.0 Lakhs/Year
ESR Cost	Rs. 2.0 Lakhs/Year
Cost for Plantation	Rs. 3.50 Lakhs/Year
Cost for OH&S	Rs. 0.50 Lakhs/Year
Cost for Labour Welfare	Rs. 1.20 Lakhs/Year
Water Requirement & Source	Total Water Required- 6.5 KLD
	Domestic Purpose – 0.30 KLD
	Dust Suppression–3.9 KLD
	Greenbelt / Plantation - 2.3KLD

Survey of Toposheet No.	550/13
Lease Area	3.238 hectare
Type of Land	Private & Govt. waste Land
Man Power Requirement	7 (Skilled and unskilled persons)
Elevation Ranges	325m RL – 320m RL
Ground Water Table	25m BGL-30m BGL
Ultimate Depth of Pit	9 m up to 312mRL
Method of Mining	Open Cast Manual Mining

S. No.	PARTICULAR	DETAILS
1.	Screening Category of the project as per EIA Notification dated 14.09.06, amended till date	Category 'B1', Project or Activity 1(a)

2.	First Technical Presentation (for ToR approval) held before SEAC	19th September 2016
3.	ToR Letter issued by SEIAA, Madhya Pradesh.	17th October, 2016
4.	Baseline Study Period	Winter season October 2016-November and December by SEAC, Madhya Pradesh
5.	Public Hearing Held	21th June 2017
6.	Venue	Mine Site Arjuni
7.	Submission of final EIA/EMP report (Hard copy) to SEAC, Madhya Pradesh	04th August 2018

ENVIRONMENTAL SETTINGS

PARTICULARS	DETAILS		
Nearest City	Katangi at a distance 9.0 Km in NW direction of the Mining Lease area.		
Nearest State/ National Highway	SH 54 is ~9.50 km west from the lease area		
Nearest Railway Station	Katangi Railway Station is 9.0 Km due NW from mine site		
Nearest Airport	Nagpur Airport is 115.0Km due SW of the mine lease area.		
National Park, Wild life Sanctuary, Biosphere Reserve within 10 Km radius	There is no Ecological Sensitive Areas (National Park, Wild Life Sanctuary, Biosphere only Reserve/ Protected Forest present within 10 Km radius		
River/ Seasonal Nallah /Water Reservoir	River/ water body	Distance	Direction
	Chandan River	2.28km	SW
	DokriyaNalah	7.31 km	NE
	Jamuniya canal	4.42 km	North

LITHOLOGY:-

The area having 1.1.5 m capping lateritic soil followed by inclined beds of mica schist/quartzite and Manganese ore bands.

- 1) Soil mixed with Murum.
- 2) Mica schist along with quartzite.
- 3) Manganese ore with Gondite.

PP and their consultant further stated that, there is no tree felling proposed and all the existing 20 trees are in non- mineralized area. After detailed discussion, committee has asked the PP to submit the following information:

1. Undertaking from PP in the following issues:
 - No tree felling proposed in the mining zone.
 - No Rehabilitation & Resettlement involved in this project.
 - No Construction & Demolition (C&D) activity within the lease area.
 - Production status after year 2015.
2. Revised EMP & CER activities with appropriate budget.
3. Budget for fixed type sprinkling system for dust suppression.
4. Method of mining with fly rock management plan.

PP has submitted the response of above quarries vide letter dated 24.10.2018 which was placed before the committee and the same found satisfactory. 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 Manganese Ore Mines in an area of 3.238 ha. (2658 ton/year) at Khasra no.-237/1, 237/2, 238/1, 238/2, 3, 239/3, 240/1-4-9-10-11, 251/2, Village-Arjuni, Tehsil - Katangi, Dist. Balaghat (MP). subject to the following special conditions:

(A) PRE-MINING PHASE

2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. Necessary consents for proposed expansion shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
4. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
5. PP will also carry out fencing all around the lease area.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. PP will obtain other necessary clearances/NOC from respective authorities.

(B) MINING OPERATIONAL PHASE

8. No intermediate stacking of soil is permitted and same shall be utilized for plantation
9. No tree falling is proposed during the mining activity.
10. The proposed mining shall be opencast followed by drilling and controlled blasting is proposed.
11. The controlled blasting technique will not exceed 1.5 meter in one slice. The face will be oriented in such a way so throw of blasted material / fly rocks should always be opposite of the habitation.
12. The height and width of the benches will be maintained as 3 meter.
13. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for mining period 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. As proposed in the landscape plan & EMP a minimum of 1000 no's of trees will be planted.
14. Transportation road shall be made pucca.
15. Transportation of material shall be done in covered vehicles.
16. Transportation of minerals shall not be carried out through forest area.
17. The OB till its utilization for backfilling shall be properly stacked as per approved mining plan and disposed off as per the submitted proposal. PP shall bound to compliance the final closure plan as approved by the IBM.
18. As proposed Garland drains 430MX2MX1.5M (LXWXD) and 4 nos. of settling pits (size 3MX3MX3M (LXWXD) should be provided to avoid silt discharge. Settling tanks shall be connected with garland drains for proper sedimentation.
19. The existing and proposed land use plan of the mine is as follows:

S.NO	HEADS	AT PRESENT- HA	AT THE END OF 5 YEA-HA	AT THE END OF CONCEPTUAL PERIOD-HA
1.	TOTAL AREA EXCAVATED (BROKEN)	0.8975	1.0525	1.0525
2.	AREA FULLY MINED OUT (OUT	-		1.0525

	OF 1)			
3.	AREA FULLY RECLAIMED (BLACK FILLED) (OUT OF 2)	-	0.1225	1.0525
4.	AREA REHABILITATED (OUT OF 3) BY AFFORESTATION, AGRI USE, HUTMENT ETC.	-	0.1225	1.0525
5.	TOTAL AREA UNDER DUMPS	1.1150	1.1800	-
6.	AREA UNDER DEAD DUMPS	1.1150	1.1800	-
7.	AREA UNDER ROAD (OUT SIDE PIT)	0.01	0.01	-
8.	AREA UNDER GREEN BELD (I.E. PLANTATION ON AREA OTHER THAN DUMP AND BACKFILLED AREA)	-	0.036	0.036
9.	#AREA UNDER INFRASTRUCTURE	0.05	0.05	0.05
10.	AREA UNDER ANY OTHER USE	-	0.05	-
11.	UNDISTURBED AREA	1.1655	0.8595	2.0995

20. 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.
21. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
22. The commitments made in the public hearing are to be fulfilled by the PP.
23. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
24. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

25. The proposed EMP cost is Rs. 3.70 lacks and Rs. 5.70 lacks /year are proposed as capital and recurring expenses.

26. Under ESR activity total Rs. 10.0 lacs will be spent, @ Rs. 2.00 lacs each for five affected villages (namely Arjuni, Agri, Panjara, Jormohgaon and Nandlesra) are proposed for different activities and should be implemented through respective committees.
27. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
28. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
29. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
30. PP will comply with all the commitments made vide letter dated 24.10.2018.
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/ built-up area/ project area, 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. - 5747/2018 Mr. Ranjit Pakrasi, Executive Vice President, M/s Damodar Ropeways & Infra Limited, 1/A, Vansittart Row, Kolkatta, (W.B.) – 700001. Prior Environment Clearance for Monocable Pulsated Fixed Grip Passenger Ropeway at Hanumandhara Temple, Chitrakoot (Khasra No.- 896, 898/B/1, 899 & 901/4) Village-Nayagaon, Tehsil - Majhgawan, Dist. - Satna (M.P.) Capacity – 500 Passenger Per Hour (PPH), Length – 310 Mtrs.(Approx).Category: 7(g) Aerial Ropeway Project.

This is case of Proposed Monocable Pulsated Fixed Grip Passenger Ropeway at Hanumandhara Temple, Chitrakoot (Khasra No.- 896, 898/B/1, 899 & 901/4) Village-Nayagaon, Tehsil - Majhgawan, Dist. - Satna (M.P.). **Category: 7(g) Aerial Ropeway Project.**

The project requires prior EC before commencement of any activity at site. This being a Aerial Ropeway Project is listed at S.N. 7(g) of schedule under 'B' Category of EIA Notification, 2006 and is to be appraised by SEAC.

The applicant presented the salient features of the project. After discussion on the project it was revealed that - The total length of the proposed rope way is Length – 310 Mtrs.(Approx). starting from Hanumandhara Temple, Chitrakoot (Khasra No.- 896, 898/B/1, 899 & 901/4) Village- Nayagaon, Tehsil - Majhgawan, Dist. - Satna (M.P.).

The case was presented by the PP and their consultant and during presentation following salient features was presented:

Madhya Pradesh Tourism Authority has been keen to build a Passenger Ropeway at Hanuman Dhara Temple, Chitrakoot, and Madhya Pradesh to facilitate pilgrims. In this regards, Authorities has awarded the project to Damodar Ropeways & Infra Ltd. , Kolkata. The company has been in the business of building cable cars since 1974. DRIL is engaged in turnkey construction of Steel / PRC Bridges, Rope Suspension Bridges and multi-storied buildings. DRIL also undertakes work for revamping / up-gradation of capacity of existing ropeways, operation and maintenance of running aerial ropeways and material handling plants.

The salient features of the project are:

Parameters	Details
Location	25°9'27.33"N / 80°52'54.28"E & 25°9'18.03"N / 80°52'58.50"E (MSL – 105.04 Mtr.)
Address	Hanuman Dhara Temple, Chitrakoot District-Satna , Madhya Pradesh
Land Area	2394 Sq. Mtr. is forest land & 2000 Sq. Mtr. is Revenue land.
Land Status	It is a both Forest Land & Revenue Land.
Nearest Town	Satna
District Head Quarters	Satna
Nearest Railway Station	Chitrakoot Dham Karwi
Nearest Highway	NH 7

Working Condition

Ropeway System	Mono-Cable Pulsated Fixed Grip Ropeway system
Length	310 Mtrs. (approx)
Level Difference	101 Mtrs.
Capacity	500 PPH (Person Per Hour)

Line Speed	0 to 4 Mtr./sec.
Rope Dia.	42 mm.
No. of Cabins	16 nos.
Cabin Capacity	6 Seater
Trestle	4 nos.
Power Requirement	110 KW
Stand by DG set	300 KVA and Additional 75 HP Automobile engine for rescue operation

Project highlight

Land	It is a both Forest Land & Revenue Land.
Water	Water requirement: 11.0 KLD. Water Source: Municipality.
Power	Power Supply : 415 Volt, 3-Phase, 50 Hz. Power Source : The power required for the proposed passenger ropeway will be sourced from State Electricity Board.
Waste water	Domestic wastewater will be sent in Septic tank followed by Soak pit .
D.G. Set	D.G. Set of 300 KVA with acoustic enclosure as a power Backup will be provided & Additional 75 HP Diesel Engine for rescue operations.
Man Power	21 nos.
Tentative Project Cost	479 lacs.
Solid Waste	<ul style="list-style-type: none"> • Solid garbage of used packages of ready food product will be collected and disposed of regular basis by the municipal authrised collectors. • The lubricant oil generated from DG sets shall be stored in HDPE containers and it will be reused in rope lubrication to protect from rust & for cleaning purpose of instruments.

Land requirement:-

Total land requirement is 0.4394 hectares in which forest land (0.2394 ha) & revenue land (0.2 ha). MoEF&CC has allowed to use forest land (0.2394 ha) as non- forest land dated 01.05.2018. Land use planning will be as follows:

- 1 Upper Station 1344 Sq. Mts.

2 Ropeway Corridor 1050 Sq. Mts.

3 Lower Station & Trestles 2000 Sq.

Total Area 4394Mts.(hectares)

Green Belt 33%

During initial discussion of the project with PP it was informed to them that the Form-1 is submitted by them is incomplete and environmental sensitivity is also not addressed properly hence the PP was asked to submit revised from 1 along with EMP prepared by accredited consultant as per MoEF&CC OM dated 03/03/2016, Details of safety and proposed rescue plan, any tree falling proposed, details of STP for treatment of sewage, Green belt development plan etc for further consideration of the project.

6. Case No. - 5761/2018 M/s Samle Prasad Gauri Shanker, Proprietorship Shri Prakash Chand Gupta, P.O. Jaitwara, District Satna (MP)-485221 Prior Environment Clearance for Selha Laterite, White Clay & Ochre Mine in an area of 12.67 ha. for production capacity of 1,25,000 TPA (Laterite- 1,00,000 TPA, Ochre- 20,000 TPA, Clay- 5000 TPA) at Village Selha, Tehsil Majhgawan, District Satna (MP)

This is case of Laterite, White Clay & Ochre Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Village Selha, Tehsil Majhgawan, District Satna (MP) 12.67 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office (Ekal Praman Patra) vide letter no. 475 dated: 26/02/2016 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The committee after presentation decided that on the basis of above submission, PP should submit a comprehensive EMP through QCI/NABET **accredited** consultant addressing following issues:-

- a. Old production details.
- b. Settlements and school building (as reported by Tehsildar) are in existence near the lease thus their protection plan shall be discussed in the EMP.
- c. A Kachcha road is passing through the lease thus alternate route shall be proposed.
- d. Management and disposal plan of OB and top soil.

- e. One month monitoring should be carried out for air, water and noise pollutants.
- f. Transportation and evacuation plan of minerals considering production volume of all the mines within 500 meters radius.
- g. Existing scenario of site should be discussed in the EMP in detail.
- h. EMP should be supplemented by the recent photographs of the site.
- i. Details of existing facilities and machineries available on site should be discussed in the EMP.

7. Case No. - 2471/2015 M/s S.N.S. (Minerals) Ltd., Shri Himanshu Kothari, Executive Director & Nominated Owner, N.H-7, Rewa Road, Maihar, distt-Satna (M.P.) - 485771Tilaura Limestone Mine Lease Area - 3.774 ha., Capacity Limestone 25000TPA & Reject Stone 30000 TPA at Khasra Nos. 909, 910, 911, 912, 915, 996, 997, 998, 999, & 1001 at Vill.-Tilaura, Th.--Maihar, Distt-Satna (M.P.) Env. Consultant: Greencindia consulting P. Ltd. Gazizbad.

This is a mining project pertaining to mining of limestone & reject stones from a lease area of 3.774 Ha. The project is covered under the provisions of EIA notification. It is mentioned as item 1(a) in the schedule of the EIA notification hence requires prior EC from SEIAA. The application for EC was forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. PP and his consultant presented the salient features, PFR and proposed TOR before the committee in this meeting. The project is located at Khasra Nos. 909, 910, 911, 912, 915, 996, 997, 998, 999, & 1001 at Vill.-Tilaura, Tehsil Maihar, Distt-Satna (M.P.).

Brief Chronology of the case :

The ToR was recommended in the 192th SEAC Meeting dtd. 08/05/15 and the TOR Validity was up to 07/05/2018. Further, in the SEAC 314th meeting dtd. 10.05.2018 it was recorded that:

“TOR’s were issued to the following cases and till date neither the EIA is submitted by PP nor has PP submitted any request for TOR’s validity extension and the validity of TOR is expired. Hence committee after deliberations decided that these cases may be sent to SEIAA for delisting:

On the basis of SEAC recommendation, the case was closed by SEIAA in 483th meeting dated 16.05.2018. Vide SEIAA letter no. 1474 dtd. 08.10.2018 wherein it was recorded that:

“PP has submitted an application on 25/5/2018 & 10/8/2018 with revised Form-1 and PFR for reconsideration the case as per OM dated: 29/08/2017 issued by MoEF & CC and requested to extend ToR validity for one year from the completion of three years. It is also mention that the public hearing was conducted on 5/2/2018. ToR has been issued by SEAC vide L.No. 448/PS-MS/MPPCB/SEAC/TOR(192)/2015 dated: 15/5/2015.”

“After review of the documtes submitted by PP for recondiseration of the case and considering OM dated: 29/8/2017 issued by MoEF/CC and regarding clarification of the validity of TOR, it is as mention in OM dated: 29/8/2017.”

(iii) *The above validity period can be extended by the concerned regulatory authority for a maximum period of one year without referring the proposal to the EAC/SEAC concerned, provided on application is made by the applicants before expiry of the validity period, together with an updated Form-1 and proper justification and there is no change in terms and conditions of the ToRs. After the lapse of validity such extension will need EAC/SEAC consideration.*

The case was presented by the PP and their consultant wherein during discussion PP informed that there is no change in the production and requested committee that in the light of the above notification dated 29/08/2017 for extention in the validity of TOR for one year. After deliberations, the committee recommends that the TOR validity may be extended for one year with validity up to 06/05/2019 based on revised from-1and PFR submitted by PP.

8. Case No. - 5760/2018 Sarpanch, Gram Panchayat Bhavan Bahri, Tehsil Bahri, District Sidhi (MP) Prior Environment Clearance for Sand Quarry in an area of 7.00 ha, for production capacity of 54,000 cum/year at Khasra no.- 819, Village Bahri, Tehsil Bahri, District Sidhi (MP)

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra no.- 819, Village Bahri, Tehsil Bahri, District Sidhi (MP) 7.00 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collectors' Office (Ekal Praman-Patr) vide letter no. 365 dated: 23/04/2018 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

PP and their consultant presented the case and during appraisal of the project it was observed by the committee that few coordinates are falling on the hill in the north-eastern side crossing river bed and few trees are also seen on Google image of October 2018. Thus after presentation, PP was asked to provide following informations:

1. District Survey Report which is not enclosed with application as per MoEF O.M. S.O. 3611 Dtd. 25th July 02018. However, PP has submitted Geological Survey Report wherein no relevant details of sand mining are provided.
2. Replenishment plan is not approved by the competent authority.
3. As per the co-ordinates provided by PP, some co-ordinates are falling on agricultural field, thus PP was asked to submit revised co-ordinates duly authenticated by the competent authority.

9. **Case No. - 5755/2018 Sarpanch/Sachiv Village Khamdand, Tehsil Beohari, District Shahdol (MP) Prior Environment Clearance for Sand Mine in an area of 12.177 ha. for production capacity 2,41,105 TPA (Khasra No. 187/771, 180(part), 197, 203, at village - Khamdand, Tehsil - Beohari & Dist. Shahdol, MP**

This is case of Sand Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra No. 187/771, 180(part), 197, 203, at village - Khamdand, Tehsil Beohari & Dist. Shahdol, (MP) 12.177 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collectors' Office (Ekal Praman-Patr) vide letter no. 2016 dated: 21.09.2017 has reported that there is no more mines operating or proposed within 500 meters around the said mine.

PP and their consultant presented the case and during appraisal of the project it was observed by the committee that few coordinates are falling on the field on the northern side and few are crossing river bed also seen on Google image of April 2018. Thus after presentation, PP was asked to provide following informations:

1. District Survey Report submitted by PP is not as per MoEF O.M. S.O. 3611 Dtd. 25th July 02018 as relevant details regarding sand mining are missing. The lease is proposed on Samdhin River and details of Samdhin River are not provided in the DSR report.

2. As per the co-ordinates provided by PP, some co-ordinates are falling on agricultural field, thus PP was asked to submit revised co-ordinates duly authenticated by the competent authority.

10. Case No. - 5746/2018 Sarpanch, Gram Panchayat, Village - Chili Aamdhana, Tehsil - Ghodadungari, Dist. Betul, MP 460001 Prior Environment Clearance for Sand Quarry in an area of 7.730 Ha. (2,31,900 cum per annum) (Khasra No. 219 & 341) at Village- Chikli Aamdhana, Tehsil - Ghodadungari, Dist. Betul (MP)

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra No. 219 & 341) at Village- Chikli Aamdhana, Tehsil - Ghodadungari, Dist. Betul (MP) 7.730 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collectors' Office (Ekal Praman-Patr) vide letter dated: 18/09/2015 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was scheduled for the presentation but 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 subsequent meetings.

11. Case No. - 5741/2018 Shri Arun Agrawal, S/o Shri Shyam Sundar Agrawal, Bamhani Banjar Mandla, Tehsil & Dist. Mandla, MP - 481661 Prior Environment Clearance for Crusher Stone Quarry in an area of 7.70 Ha. (80,000 cum per annum) at (Khasra No. 147 Part) at Village- Banjara Tola, Tehsil - Nainpur, Dist. Mandla (MP)

This is case of Crusher Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 147 Part) at Village- Banjara Tola, Tehsil - Nainpur, Dist. Mandla (MP) 7.70 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office (Ekal Praman Patra) vide letter no.568 dated:05/05/2018 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

Case was presented by PP and their consultant. During presentation PP has submitted District survey report of District Mandla. During presentation it was also observed as per the Google image that a road is passing through the lease area for which PP submitted that it a Kachcha road used by the pedestrian and alternate route is available. Committee after deliberation decided that it being a Kachcha road thus 20 meters both side of this road shall be left as non-mining area and dense plantation shall be carried out on the both sides of this non mining area. Also in the mine plan, this area is shown as block area due to village road. After discussion PP was asked to submit response for the following:

1. Revised CSR with budgetary allocations as suggested by committee.

PP has submitted the response of above quarries vide letter dated 24.10.2018 which was placed before the committee and the same found satisfactory. 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 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 80,000 Cu.mt/year.
2. A Kachcha road passing through the lease (Google Image November 2016), thus 20 meters both side of this road shall be left as non-mining area and dense plantation shall be carried out on the both sides of this non mining area.
3. The lease area should be clearly distinguished and permanent earmarked at the site.
4. Six monthly occupational health survey shall be carryout
5. PP should explore possibility of using solar lights in office /rest areas.
6. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
7. Approach road from site to the main road will be maintained by the PP.
8. Top soil shall be simultaneously used for the plantation.
9. A budgetary provision for Environmental management Plan of Rs. 17.25 lacks (capital) is made with a recurring expenditure of 3.50 Lacks. Under CSR Rs. 8.10 lacks/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
10. Total 2500 nos. of trees shall be planted, which includes barrier zone and quarry periphery. Apart of this approach road, Govt. School & Swasth Kendra will be also used for green belt development in the five years period, for this PP proposed in the EMP separate budget of Rs. 2.25 Lacks as capital and 0.50 lacs/year as recurring .

12. Case No. 3231/15 Shri Anup Agarwala, Director, M/s Ma Kali Iron & Steel Company Pvt. Ltd., 84, Makers Chambers-III, Nariman Point, Mumbai-400021 (MS) Prior Environment Clearance for approval of Iron Ore Mine Lease Area - 11.56 ha., Capacity - (24,000 cum/year) at Khasra No.-716/2kha,3kha, 4kha, 5kha, 6, 7, 8, 9, 716/2 Gh-; Total Area-1.07; Ownership-G.R.F.L. Khasra No.-716/2 th , 3gh,4ga,6ga,6ka, 7ka,8ka, 9ka; Total Area-10.49 Ha., Capacity - Pahadi, Tehsil-Katni, District-Katni (MP). EIA Presentation, (ENV. Consultant Srushti Seva Private Limited.) (Query reply)

This is case of Iron Ore mining. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.-716/2kha,3kha, 4kha, 5kha, 6, 7, 8, 9, 716/2 Gh-; Total Area-1.07; Ownership-G.R.F.L. Khasra No.-716/2 th , 3gh,4ga,6ga,6ka, 7ka,8ka, 9ka; Total Area-11.56 Ha., Capacity-;Pahadi, Tehsil-Katni, District-Katni (MP) 1.490 ha. The project requires prior EC before commencement of any activity at site.

This is case of Iron Ore mining where TOR is to be issued in the 217th SEAC meeting dated 23/08/2015. After deliberations following TORs were issued by the committee in addition to the standard TORs prescribed by the MoEF & CC:

1. Natural drainage system of the project site as Sumrar dam is 3 Kms away and simultaneously its protection plan also be discussed.
2. Details of over burdens, its stacking, stabilization details, and storage method along with protection plan be discussed.
3. Transportation of materials from site.
4. Methods to prevent mine runoff in nearby agricultural fields.
5. Details of water balance.

PP has submitted EIA Report vide letter no. MKISCPL/MoEF&CC/024 dated 20/08/2018 which was forwarded through SEIAA vide letter no. 1319 dated 25/08/2018.

EIA was presented by the PP and their consultant presented, where in PP stated that they have obtained requisite **Forest Clearance Stage – I** vide letter no. F-1/416/06/10-11/1125 dated 03/05/2014 and **Forest Clearance Stage - II**, this was approved under section 2 (III) of Forest (Conservation) Act, 1980 vide letter 6-MPC 026/2009/Bho/009 dated 05.01.2017. The salient features of the project are as given below:

Mining Details:

Sr. No.	Particulars	Details
1	Method of Mining	Opencast

2	Production capacity per year	24,000 TPA Iron Ore
3	Total Mineable Reserves & Resources	0.36 Million Tonnes
4	Life of Mine	16 years
5	No. of Benches	2/3
6	Bench Height and width	3 m Height & 6m Width
7	Elevation Range	390 m - 414 m above mSL
8	Ground Water Table	2.0 m bgl during monsoon season 25.0 m bgl during pre-monsoon season
9	Ultimate Working Depth	20 m i.e. up to 380 mRL
10	Overall Pit Slope	45°
11	Stripping ratio	1: 1.22 (Max.)
12	Number of Working Days	300 days with one shift only
13	Total waste during plan years	Overburden : 62,655 m ³ Mineral Reject : 2,009 Tonnes
14	Total waste generation at the end of life of mine(Conceptual Period)	Overburden : 9,62,655 m ³ Mineral Rejects : 56,009 Tonnes

Reserves, Grade & Mining Methodology

- Net Geological reserves : 0.54 Million tones (Proved Reserves 0.28 Mt + 0.25 Mt Probable and Possible Reserves)
- Net Mineable reserves : 0.36 Million tones.

Grade			
Fe%	Al₂O₃%	SiO₂%	P%
59.51-66.92	0.99-1.67	1.90-3.85	0.027-0.043

- During the process of mining the overburden & soil will be removed and will be stored properly to the dumping site within the lease area.
- The drilling and blasting will be carried out for mining of in-situ iron ore bed.
- To avoid flying of rocks muffled blasting will be adopted.
- The iron ore produced will not be subjected to beneficiation, except for manual dressing and sizing of the ore.

- The lateritic top soil will be scrapped manually and stacked separately for its reuse in plantation.
- During blasting, the lateritic overburden (OB) will be generated which will be transported outside the pit on the southern side and dumped on non-mineralised area by tipper.

Mining Methodology:

- The proposed method of mining will be operated as manual/semi mechanized opencast method.
- The bench height will be 3 m and width will be 6 m. The conceptual working depth will be upto 20 m.
- The blasted Iron ore will be sized manually. The sized Iron ore will be stacked properly. To avoid flying of rocks muffled blasting will be adopted.
- The Iron ore produced will not be subjected to beneficiation, except for manual dressing and sizing of the ore.
- During the process of mining the overburden/soil/rejects will be stored properly to the dumping site within lease area.

Drilling & Blasting:

- The drilling will be carried out by 30 mm dia. Jack Hammer with 1.5 m depth and spacing will be 1.5 m x 1.5 m.
- Controlled blasting will be conducted.
- NONEL system of initiation shall be followed to minimize the Noise & Vibrations.
- Type of Explosive – Slurry, non-electric or ordinary detonators and detonating fuse.

Waste Generation and Management

Year	Overburden (m³)	Mineral rejects (Tonnes)
First 5 years	62,655	2,009
During subsequent years @ avg. 2.5 m/tonne overburden and 15% mineral rejects	9,00,000	54,000
Total	9,62,655	56,009

- The waste material generation would be about 15% of the total excavation including overburden and soil.
- These wastes would be used for reclamation of worked out area in future.
- Most of the area worked out would be reclaimed with slight deviation.

- Over this reclaimed land, plantation will be carried out to enhance the environment

Stage Wise Land Use:

S. No.	Heads	Present (Ha)	At the end of 5 years (Ha)	At the end of conceptual period (Ha)
1	Area under pits	0.09	1.22	1.31
2	Area under dumps	Nil	3.38	3.38
3	Area under road	0.04	0.09	0.13
4	Area under buildings etc.	Nil	0.015	0.015
5	Area under storage	Nil	0.16	-
6	Area under plantation	Nil	0.11	4.42
7	Undisturbed area	11.43	6.59	2.31
	Total	11.56	11.56	11.56

Post Mining Land Use pattern:

- The mined out pit, after confirming the exhaustion of mineral will be converted into Water reservoir with proper fencing.
- Plantation area shall be maintained @ 33% of the lease area with local tree species.

Water Requirement:

- The water requirement of the project is estimated to be 13.2 m³/day. 10 m³/day of the water is required for dust suppression (within the lease and outside the lease on transport route), 2 m³/day required for plantation and 1.2 m³/day water is required for drinking purposes.
- The water requirement will be met from tanker water supply and rainwater collected in mining pit.

WATER REQUIREMENT BREAKUP

(A)	Industrial	Quantity m ³ /day	Source
1.	Dust suppression	10.0	Tanker and Pit Water
2.	Green belt	2.0	
	Sub Total (A)	12.0	
(B)	Drinking/Domestic	1.2	Tanker
	Sub Total (B)	1.2	

	Grand (A+B)	Total	13.2	
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Liquid Effluent:

Mine Water Effluent: There is no effluent generation. Rain water accumulated in the pit during monsoon. The treated water will be used for afforestation / plantation, dust suppression etc.

Sr. No.	Purpose	Avg. Demand (Liters/day)	Source
1	Dust Suppression,	10000	Tanker and Pit water
2	Plantation	2000	Tanker and Pit water
3	Drinking	1200	Purchased water
	Total	13200	

Hydrogeology of the Study Area

- Detailed Hydrogeological studies in respect of Core Zone (0.11 km²) and Buffer Zone (314 km²) have been carried out.
- The annual normal rainfall of study area considered for Katni station is 1268 mm.
- The water level in buffer zone during pre-monsoon is varies between 7 m to 10 m bgl average 8.4 m bgl,
- The stage of groundwater development of Katni Block estimated by CGWB (2013) is 54%.

The area is under safe category.

Biodiversity:

- The local varieties of tree like Palas, Jamun, Babul, Neem, grasses and shrubs are main vegetation in the area. The mining lease is devoid of any trees and wildlife is rare in the area.
- Reserved Forest lies in the Buffer zone consisting of Palas, Mahua, Arjun, Aam, Chichwa, Jamun, Karanj, Neem trees etc.
- Agriculture is the main occupation of the study area. Main crop grown in the area is Rice, Maize, Wheat, and Blackgram.

- Inquiries were made with local villagers in adjoining area about the availability or sighting of wild animals. Based on information, there has been no endangered species of the wildlife fauna. The normal species of birds were observed by the team during study period. No rare or endangered faunal species was found during the survey. No Wildlife Sanctuary or National Park is located in this area.

AIR QUALITY MANAGEMENT

- Iron ore will be covered by tarpaulins to prevent spread of dust during transportation.
- The internal roads will be frequently sprinkled with water for which truck mounted water tankers with sprinkler arrangement will be provided.
- Efficient in-built wet drilling system shall be provided in the drills.
- Controlled blasting shall be carried out.
- Haulage road shall be adequately sprayed with water by either water tanker or water sprinkler.
- Dust masks shall be provided to the workers.
- Green belt shall be developed along the mine lease boundary and plantation will be carried out along the haul roads, reclaimed area etc. to arrest dust.
- Periodical monitoring of ambient air quality shall be carried out.

Noise & Vibration Management

- Drilling shall be carried out with the help of sharp drill bits which help in reducing noise.
- Secondary blasting shall be avoided.
- Controlled blasting with proper spacing, burden, stemming and optimum charge/delay shall be maintained.
- The blasting shall be carried out during favourable atmospheric condition and less human activity timings i.e. during lunch interval or during change of shifts.
- Blasting operations will be carried out only during day time as per DGMS guidelines.

- Green Belt and Plantation shall be developed around the mining activity area and along haul roads. The plantation minimizes propagation of noise.
- Periodical monitoring of noise shall be done.
- Proper warning signals shall be used.
- Adequate safe distance from habitation as per standards from blasting site will be maintained.

Water Quality Management

- Garland drain having siltation pits shall be provided at the toe of the dumps, to channelize the runoff water from dumps into the water reservoir (i.e. mined out pits) & around the active pits to restrict rainwater from entering in to the working pit.
- Retaining walls having water holes shall be provided along the toe of the dumps to avoid the soil wash out & around the active pit to prevent fall of human/animal in to the working pit.
- The arrangement of garland drain and retaining wall around the mining lease boundary will prevent runoff from mining lease area entering into adjoining areas.
- Dumps slopes shall be stabilized followed by plantation to avoid soil erosion.
- No waste water shall be discharged from the mining activities.
- Septic tanks and soak pits shall be provided for the disposal of domestic effluent generated from mine office.

BIO-DIVERSITY

- The mining lease area covers plain area forest land. Reserved Forests and open mixed jungles are within the buffer zone area. Faunas of common occurrence in the area are mainly wild dog, bear, and rabbit which are sighting rare in the mining area. There is no reported species of endangered flora and fauna within the lease area.
- As per the available record, there is hardly any report of wildlife movement in this region. This is mainly because area is well developed and bears habitation, industries, and mining activities.
- On the other hand there will be positive impact due to the plantation activities, which are proposed by management on areas surrounding surface infrastructure.

Environmental Management Plan - Plantation

It is proposed to carryout plantation of 10000 local trees at various places till the end of life of mine.

S.No.	Location for plantation	Area (Ha)	Number of Plants
1.	Safety zone area i.e. 7.5 m around ML area	1.17	2500
2.	Mining Limit zone area 50 m boundary from road on Southern side (excluding dump area in mining limit zone)	0.62	1500
3.	Plantation along internal road	0.50	1000
4.	Plantation in OB Dump	1.13	2500
5.	Plantation on undisturbed area	1.0	2500
	Total	4.42	10000

Total Area for plantation as per calculation : 4.42 Ha

Total Area for plantation as per Landuse Planning (Mining Plan) : 0.33 Ha

Actual area to be used for plantation : 4.09 Ha

4.09 Ha area will be covered under greenbelt and plantation till the end of the life of mine and the trees will be planted @ 2500 trees/ha. The plantation will be carried out around the pit boundary, in the safety zone of 7.5 m around ML area, along the internal roads of the mine etc and on the unused area of the mine.

Budget for Social Developmental Activities (CSR)

S.N	Activity	Capital Budget(Rs in lakhs)	Recurring Cost (Rs. in Lakhs)
1	Education and allied activities	2.00	1.00
2	Education (Distribution of Books and Uniforms)	-	1.00
3	Vocational Training to unemployed youth	-	0.50
4	SHG support (women SHG)	-	0.50
5	Medical facility (Regular Health Camps)	2.00	
6	Maintenance of Village Roads		0.50
7	Infrastructure development (support to civic amenities, plantation)	1.0	0.50
	TOTAL	5.00	4.00

Provision of 2% of the capital cost i.e. Rs 5.0 Lakhs will be earmarked under Corporate Environmental Responsibility (CER) as per the MoEF&CC Notification dated 01.05.2018. The CER will be spent as per the directives of Collector, Katni

Budgetary Provision for Environmental Protection

Sr. No.	Activity/Items	Amount Rs (Lacs)	
		Capital	Recurring
1	Air Pollution Control	*	2.0
	Dust Suppression		
2	Water Pollution Control	8.0	*
	Desilting Tanks, Garland Drain		
	Boulder Check Plug		
	Septic Tanks/Soak Pits		
	Mine water sedimentation pond & pumps		
3	Pollution Monitoring	*	2.0
	Piezometer for Hydrogeological monitoring		
	Air, Water, Noise Vibration Monitoring		
4	Conservation of Natural Resources	2.0	*
	Solar Lightening arrangement		
	Rainwater Harvesting		
	Soil preservation (biological reclamation)		
5	Plantation /Reclamation	*	2.0
	Reclamation Biological reclamation, plantation		
	Reclamation (Dump)		
6	Occupational Health	3.0	1.0
	Fire Fighting Equipments (portable)		
	Personnel protection equipments (Goggles , gloves, helmets, dust mask, safety boots)		
Grand Total		13.0	7.0

After detail discussion committee has asked the PP to submit the following information:

1. Clear-cut bifurcation (khasra wise) of RF, PF and revenue forest falling in the M.L. area.
2. Show on the map: Sensitive features falling within 500 meter radius and addressed if any sensitive features occurred.

3. Details of the haulage and transportation road (width and length) and frequency of the trucks, total trips etc.
4. Explore alternate transportation rout and give details because proposed road is passing into the Pahadi Village.
5. Blasting specification, pattern designing and fly rock control issues because Pahadi Village is situated in the S-W direction which is very near to the mine site.
6. Details of proposed deployment of machine and computation.
7. Lithology of the mining lease area.
8. Revised water balance chart as suggested during presentation.
9. Explore the possibility to install and establish water sprinkling arrangement before loading the material.
10. Location of garland drain and settling tanks on the map.
11. Quantification of PPEs as per proposed man power deployment.
12. Year-wise plantation details.

PP vide letter no. nil dated 22.10.2018 has requested to postponed the presentation due to his sickness hence unable to attend this meeting. The letter was placed before the committee. Committee accepted the request made by the PP and decided to call the PP in up-meeting.

(Dr. Mohd. Akram Khan)
Member

(Dr. A.K. Sharma)
Member

(Prashant Shrivastava)
Member

(Dr. R. Maheshwari)
Member

(Sonal Mehta)
Member

(Dr. J.P. Shukla)
Member

(Mohd. Kasam Khan)
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. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
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. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
6. Curtaining of site shall be done using appropriate media.
7. 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.
8. Transportation shall not be carried out through forest area.
9. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat.
10. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
11. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
12. NOC of gram panchayat should be obtained for the water requirement.
13. PP should also maintain a log book containing annual details of tree plantation and causality replacement.
14. 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.
15. 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. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Plantation shall be carried out on the banks for stabilization of the banks.
5. The mining activity shall be done manually.
6. 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.
7. NOC of gram panchayat should be obtained for the water requirement.
8. Transport vehicles will be covered with tarpoline to minimize dust/sand particle emissions.
9. 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.
10. No Mining shall be carried out during Monsoon season.
11. The depth of mining shall be restricted to 3m or water level, whichever is less.
12. No in-stream mining shall be allowed.
13. 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.
14. Established water conveyance channels should not be relocated, straightened, or modified.
15. 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.
16. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
17. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
18. EC will be valid for mine lease period subject to a ceiling of 5 years.
19. 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. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. Only deposited sand is to be removed and no mining/digging below the ground level is allowed.

4. 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.
5. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
6. The mining activity shall be done manually.
7. Heavy vehicles shall not be allowed for removal of sand.
8. The sand shall be transported by small trolleys up to the main transport vehicle.
9. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
10. No Mining shall be carried out during Monsoon season.
11. PP shall take Socio-economic activity in the region through the 'Gram Panchayat'.
12. NOC of gram panchayat should be obtained for the water requirement.
13. EC will be valid for mine lease period/mine plan subject to a ceiling of 5 years.
14. The mining shall be carried out strictly as per the approved mining plan.

Annexure- 'D'

General conditions applicable for the granting of TOR

1. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
2. An inventory of flora & fauna based on actual ground survey shall be presented.
3. Risk factors with their management plan should be discussed in the EIA report.
4. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
5. The EIA document shall be printed on both sides, as far as possible.
6. All documents should be properly indexed, page numbered.
7. Period/date of data collection should be clearly indicated.
8. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
9. The copy of the letter received from the SEAC prescribing TOR for the project should be attached as an annexure to the final EIA/EMP report.
10. The final EIA/EMP report submitted to the SEIAA must incorporate all issues mentioned in TOR and that raised in Public Hearing with the generic structure as detailed out in the EIA report.
11. Grant of TOR does not mean grant of EC.
12. The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared.
13. On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The

- consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MOEF & CC) have been complied with and the data submitted is factually correct.
14. While submitting the EIA/EMP reports, the name of the experts associated with involved in the preparation of these reports and the laboratories through which the samples have been got analyzed should be stated in the report. It shall be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and also have NABL accreditation.
 15. All the necessary NOC's duly verified by the competent authority should be annexed.
 16. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
 17. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CSR cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
 18. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
 19. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
 20. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
 21. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
 22. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.

FOR PROJECTS LOCATED IN SCHEDULED (V) TRIBAL AREA , following should be studied and discussed in EIA Report before Public Hearing as per the instruction of SEIAA vide letter No. 1241 dated 30/07/2018.

23. Detailed analysis by a National Institute of repute of all aspects of the health of the residents of the Schedule Tribal block.
24. Detailed analysis of availability and quality of the drinking water resources available in the block.
25. A study by CPCB of the methodology of disposal of industrial waste from the existing industries in the block, whether it is being done in a manner that mitigate all health and environmental risks.
26. The consent of Gram Sabha of the villages in the area where project is proposed shall be obtained.