

The 300<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) was held on 08 December, 2017 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. Dr. Sonal Mehta, Member.
4. Shri Prasant Srivastava, Member.
5. Dr. R. Maheshwari, Member.

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

**1. Case No. 484/2009 M/s Agrawal & Singh minerals Prop. Shri Upendra Singh R/o village- Budwa P.O. Teh- Beohari Distt- Shahdol, C/o 48, Prabhat Vihar Colony, Satna- M.P. Dhari No.1, ochre, white clay & Laterite mine 46.761 ha. At village Dhari, Teh- Beohari, Distt- Shahdol- M.P.**

This is a case of ochre, white clay & Laterite. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at village Dhari, Teh- Beohari, Distt- Shahdol- M.P 46.761 ha., The project requires prior EC before commencement of any activity at site.

Earlier this case was discussed in 45<sup>th</sup> SEAC-II meeting dated-09/08/16 wherein it was recorded that: This being a mining project with lease area between 5 ha to 50 ha is listed at S.N. 1(a) of schedule under 'B' Category of EIA Notification, 2006 and is to be appraised by SEAC.

The case was earlier discussed in the 46<sup>th</sup> SEAC meeting dated 28/01/2010 wherein the applicant, presented the salient features of the project .Information pertaining to the above project was examined by the committee. This is a case of a new mine. Open-cast, manual mining has been proposed, mining shall not intersect the GW table. Nearest village is Dhari which is about 600 mts from the lease area boundary. Site is surrounded by Reserve forest and nearest Magrodhaha RF boundary about 0.5 Km from the site. River Banas is located at 1.5 Km from the site. One temple and four huts have been reported in the lease area. One stop dam is also located in the lease area. After detailed deliberations, the SEAC has recommended the inclusion of following TORS in the preparation of EIA/EMP:-

- Duly attested & certified Mining Plan approved by competent authority has to be submitted along with the copy of current lease deed and lease letter.

- Monitoring has to be taken up as per the norms using appropriate air/water quality modeling, based on meteorological data (wind-rose) of the region.
- All chemical analyses report from approved laboratory in original format. The chemical analyses should incorporate method of analyses, instruments used and the details of standards used. The date and time of sampling should also be mentioned in the report.
- Total area for which afforestation has been proposed – plan stating how much plantation shall be taken up yearly, has to be submitted. Plantation of local species along with Sheesham, Neem, Tendu, Kachnar & various fire-wood trees should be taken up. Map showing green belt to be submitted.
- Plantation in at least 33% of the total area has to be ensured with the lease period; accordingly plan has to be submitted with EIA.
- PFR should include cost benefit analyses considering- social cost, environment cost and pre-occupational cost.
- For welfare of the mine-workers various activities such as regular health checkups, first-aid, shelter for rest and meals, drinking water etc. has to be taken up. Nearby mine owners may form a society and funds for welfare of mine-workers may be created from various govt. schemes and other sources. This aspect has to be covered in the EMP.
- Management of OB solid waste generated during mining has to be addressed through incorporation of a concrete plan for the same.
- Water-shed management plan to be submitted, in view of the damages caused in the catchment-area of rivers falling in the prescribed study area of mining region & to support the ground-water recharging.
- In land use map, details regarding the agricultural crops pattern around the mining area should also be added.
- Map depictions: coloured maps depicting land use of the region showing sensitive / fragile features and detailed lay-out of the site clearly showing green-belt (existing & planned)
- Species proposed in the green belt development should be notified.
- Satellite Image of the location of mine should be submitted with demarcation of other proposed/in operation mines in nearby area.
- Location is also to be shown in Tehsil map procured from revenue department.
- The EIA should be prepared based on model TOR for appraisal of mining projects issued by MoEF, Delhi
- NOC from Gram Sabah.
- NOC from forest department mentioning the distances of lease area from reserve forest, wild life sanctuaries, national parks etc.

- Notifications, Rules and Guidelines issued by MoEF and CPCB from time to time have to be followed strictly while executing the project. Accordingly, provisions have to be made in the EIA/EMP.
- Temple should be preserved and open to all.
- Water from the dam should be open to all.

The TOR was issued to the PP vide letter no. 150 dated 18/02/2010. The PP has submitted the EIA report to SEIAA vide letter no. 459 dated 21/11/2011 but same was not sent to SEAC due to payment related issues related to public hearings. SEIAA vide letter no. 6038/SEIAA/16 dated 06/10/2015 has forwarded the file to SEAC for appraisal stating that “the case was kept on hold by SEIAA in view of non-payment of the charges of news paper advertisement about public hearing. It is informed by the concerned officer, MPPCB that the payment has been made by the PP to the concerned news agency. Hence the case may be forwarded to SEIAA further action in the matter”.

The case was discussed in the 255<sup>th</sup> SEAC meeting dated 02/01/2016 wherein it was decided by the committee that to place it for appraisal in forthcoming meetings of SEAC. The case was scheduled for the presentation in the 08<sup>th</sup> SEAC II meeting dated 20/02/2016 wherein PP remains absent. The case was again scheduled for presentation in the 37<sup>th</sup> SEAC II meeting dated 12/07/2016 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. Earlier PP was also absent in the 08<sup>th</sup> SEAC II meeting dated 20/02/2016. 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”. Accordingly, PP was also informed vide this office letter no. 1200 dated 18/07/2016.

The case was again scheduled for the presentation today 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. Earlier PP was also absent in the 08<sup>th</sup> SEAC-II meeting & 37<sup>th</sup> SEAC II meeting. 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.

Today, this case was again placed in agenda as SEIAA has forwarded this case file vide letter no. 4909 dated-06/01/17 stating that “PP has submitted a letter dated-16/12/2016

showing his inclination to present the case in SEAC. Therefore it has been decided to relist the case and send the file back to SEAC for appraisal.”

The case was presented by the PP wherein during discussion and scrutiny of the document it was observed by committee that DFO vide letter no. 7490 dated 16/12/2014 has issued a certificate stating that Tiger Reserve, Sidhi (a notified PA) is situated approx. 05 kms away from the project site and thus the case becomes category-A. PP during discussion submitted that the Tiger Reserve, Sidhi is approx. 6.5 Kms away from the site and requested to ask DFO with exact distance as in the submitted certificate approximate distance is mentioned by the DFO and also submitted a written request. Considering the request of PP, committee decided to obtain Revised DFO certificate with the exact distance from the nearest boundary pillar of the lease within 30 days for further consideration of this project. PP was also instructed to peruse the case with the DFO for its timely submission.

PP has submitted the Application dated: 21/6/17 which was forwarded by SEIAA vide letter no. 1136 dated 14/11/17.

The case was presented by the authorized representative of the PP in the 79<sup>th</sup> SEAC meeting dated 13/06/2017. During discussion it was observed by the committee that DFO, Shahdol vide letter no. 2092 dated: 01/06/2017 has submitted that applied area is 2060 meters away from the Son Ghariyal Abhayaran and as per MoEF & CC Notification dated: 25/6/14 any project or activity specified in category “B” will appraised at the Central level as Category-A if located in whole of in part within 05 kms from the boundary of protected areas notified under the Wildlife (Protection) Act, 1972. Thus committee after deliberations decided to forward this case to SEIAA as the applied area is 2060 meters away from the Son Ghariyal Abhayaran for onward necessary action as per MoEF & CC Notification dated 25/6/2014.

The case was discussed in the 453<sup>rd</sup> SEIAA meeting dated 06/11/2017 wherein it was decided that that PP has made representation dated: 21/6/2017 in SEIAA regarding clarification of coordinates and distance from Tiger Reserve/ Wild Life Sanctuary. The above representation received from PP be sent to SEAC regarding reappraisal and re-consideration of the case. The case file was sent vide letter no. 1136/SEIAA/17 dated 14/11/2017.

The case was presented by the authorized representative of PP wherein during discussion it was informed to the committee by the representative that due to unavoidable circumstances they will not be able to present the case in this meeting and requested to consider their case for next meeting of committee for which a written request was also submitted by the PP vide letter dated 08/12/2017. Committee considering the request decided to give another opportunity in subsequent meetings of SEAC.

**2. Case No. - 2513/2015 Shri Kailash Jain Chouradiya, HIG-11, Deendayalpuram, Civil Lines, Balaghat (M.P.) Environment Clearance for approval of Miragpur Manganese Ore Mine Lease Area - 9.311 ha., Capacity- 5,000 MTPA at Khasra No. 273/1-8, 274, 275, 276/1, 276/2, 277, Vill.-Miragpur, Th.--Khairlanji, Dist-Balaghat (M.P.)**

This is a Mining Project comprising mining of Manganese Ore in a lease area of 9.311 Ha. The project is proposed at Khasra No. 273/1-8, 274, 275, 276/1, 276/2, 277, Vill.-Miragpur, Th.--Khairlanji, Dist-Balaghat (M.P.). The Open-cast and Mechanized Mining is proposed in the project. Proposed production capacity in the project is 5000 MTPA.

Earlier this case was discussed in 59<sup>th</sup> SEAC-II meeting dated-11/11/2016 wherein it was observed that: *this case was discussed in 191<sup>th</sup> SEAC meeting dated-07/05/2015 wherein it was observed that: “The Open-cast and Mechanized Mining is proposed in the project. Proposed production capacity in the project is 5000 MTPA. After deliberations Committee agreed to issue TOR with inclusion of following points in the EIA / EMP in addition to standard:*

- *Plan for the waste storage / disposal with details of the height of dumps, their slopes and stabilization.*
- *Cumulative impacts to be evaluated considering the other operating / proposed mines in the area.*
- *Appropriate Evacuation plan has to be prepared and presented with road map for transport of the material from the mining site up to the main trunk.*
- *All environmental monitoring shall be conducted through approved Laboratories.*
- *EIA shall be prepared only by Accredited Consultants in the field of Mining.”*

*Today this case was again placed in agenda as PP has submitted the request letter dated-10/10/2016 for amendment in the TOR with respect to capacity for Manganese Ore mine from 5000 TPA to 400 TPA only as Mining plan was approved for only 400 TPA by the IBM. Committee after perusal and discussion recommends amending the capacity in TOR from the 5000TPA to 400 TPA as per the mine plan approved by the IBM. Committee also recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-*

1. *Inventory of operating / proposed mines within 2 Km around the said mine.*
2. *Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.*

3. *Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power considering all the existing mines within 500 meters radius.*
4. *Any alternate route avoiding the nearby habitations.*
5. *Disposal plan of excess mine water accumulated during rainy season be discussed in the EIA.*
6. *Top soil management plan be discussed in the EIA.*

PP has submitted the EIA report vide letter dated 19/06/2017, which was forwarded by the SEIAA vide letter no. 847 dated 23/06/2017,

The case was scheduled for presentation in the 297th SEAC meeting dated 08.11.2017 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. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was again scheduled for presentation in this meeting 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 giving last chance to present their case and even if PP remains absent the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

3. **Case No. – 1693/2013 Smt. Kuwar Rani Ayodhya Singh, Owner R/o 6, Usha Colony, Lashkar – Gwalior, Distt. - Gwalior (M.P.) - 470339- Env. Consultant: Creative Enviro Services, Bhopal (M.P.).Expansion of production capacity from 20,000 MTPA to 2,62,538 Ton per year at Khasra No. – Part of 1262 in Village- Panihar, Tehsil- Gird, Distt. – Gwalior (M.P.) Lease Area – 14.70 Ha. Lease Period –30Yrs.**

This is a case of mining submitted for grant of prior EC as PP desire to expand the production capacity from 20000 MTPA to 262538 MTPA. The project presently has a valid EC for the existing production capacity. Enhanced production is envisaged in view of revised mining Plan. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA study and prepare effective EMP for the project. The case was presented by the PP and his consultant. After deliberations committee has approved the standard TOR with inclusion of additional points in 138th SEAC meeting 25/07/2013.

Earlier this case was presented by the PP and their consultant in the 81<sup>st</sup> SEAC-II meeting dated-22/06/2017 wherein it was recorded that *this case was presented by the PP and their consultant in the 48<sup>th</sup> SEAC-II meeting dated-28/08/2016 wherein it was recorded that: The TOR was approved in the 138<sup>th</sup> SEAC meeting dated 25/07/2013 and the same was issued to the PP vide letter no. 724 dated 11/10/2013. The validity of TOR expired on 10/10/2015. PP vide their letter dated 09.09.15 has requested for TOR extension. After deliberations, the committee recommends the case for extension in TOR for one year with validity up to 10/10/16.*

*PP has submitted the EIA report vide letter dated 23/05/2016 which was forwarded by the SEIAA vide letter no. 1742/SEIAA/16 dated 30/05/2016. The case was placed for the discussion wherein committee observed that this is a case of expansion of production capacity from 20,000 MTPA to 2,62,538 Ton/year of iron ore. Since the project presently has EC for the existing production capacity, compliance report duly certified by MoEF&CC has to be submitted by PP for compliance of earlier EC conditions which is still not submitted by the PP. The committee decided that PP may be asked to submit the compliance report of earlier EC conditions duly certified by MoEF&CC within 30 days time for further consideration of the project.*

Today the case was scheduled for discussion as SEAC vide letter no.-1506 dated-13/10/2016 issued a letter to the PP for submitting the required information which were asked by the committee in the 48<sup>th</sup> SEAC-II meeting dated-28/08/2016 to submit the desired information and two reminder was also given to the PP vide letter no. 101 dated-03/02/2017 & vide letter no.-374 dated-01/06/2017. PP so far has not submitted the desired information's but PP vide letter dated-20/06/2017 had requested that they are in the process of obtaining compliance report of MoEF&CC of earlier EC conditions and as soon as it is issued same will submit through the SEIAA. The case were placed before the committee and after discussion considering the request of PP, committee decided to give one month timings to the PP for submitting the compliance report.

PP vide letter dated 24.06.2017 submitted compliance report of MoEF&CC of earlier EC conditions. The certified compliance report has been issued vide no. 18-B-49/2011 (Parya)/501 dated 22.06.2017 by the RO, MoEF&CC.

In the SEAC 296 meeting dated 07-11-17, 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 and even it the PP remains 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 following submissions were made by the PP:

**Environment setting**

<b>Particulars</b>	<b>Details</b>
Locations	Village- Panihar, tehsil- Gird, Dist Gwalior (MP)
Latitude	26 <sup>0</sup> 05'10.28" North
Longitude	78 <sup>0</sup> 03'27.63" East
General ground level	300m
Nearest National/state Highway	Agra - Mumbai NH-3 – N -3.5km
Nearest Railway Station	Panihar - 4.0 km
Nearest Airport	Gwalior - 28.55 km
Nearest Tourist Place within 10km radius.	None
Archaeological Important Place within 10km radius.	None
Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Santau RF - E - 0.30km Aron RF - SW - 1.75km
Nearest major city with 100000 population within 10km radius	Nil
Nearest Town / City within 10km radius	None
Nearest Village	Maheshwara - S - 0.50 km
Nearest River	Non River - SW - 1.50km
Nearest Nalla	Himmatgarh Pond – S - 2.50km Water Pond – N - 4.50km
Nearest Hill Ranges	None within 10km radius
Other quarries/mines	Iron ore mine – Adjoining – Shri Radheshyam Gurjar Minor Mineral – 15no. - 3-7km

**It was reported by the PP that**

- The fresh lease was granted for period of 20 years from 6.10.1982 to 05.10.2002 and further renewed for 20year up to 05.10.2022.



- The lease area comes under govt. waste land.
- One other lease area is located within 500m radius.
- The scheme of mining with progressive mine closure plan has been approved by IBM, Nagpur.
- The PP has already been obtained environmental clearance from SEIAA vide letter no. 850/EPCO-SEIAA/11 dated 15/12/2011 for existing capacity. Present proposal for capacity expansion from 20000 TPA 262538TPA.
- Lessee has already been obtained certified compliance report from regional office of MoEF&CC.

**Salient feature of the lease area**

<b>S. No.</b>	<b>Particulars</b>	<b>Details</b>
1	Type of Mine	Opencast
2	Mining Lease Area	14.70 ha
3.	Mineable Area	14.24 ha
4.	Existing Pits	6.5750 ha
5.	Existing dump	0.8281 ha
6.	Infrastructure and road	0.26ha
7.	Mineral Storage	0.1450ha
8.	Existing backfilled area	1.95ha
9.	Recoverable Reserve	4825271.00 T
10.	Method of mining	OTFM
11.	Ultimate Depth of Mining	7m bgl (308m MSL)
12	Existing capacity	20000TPA
14.	Proposed capacity	262538TPA
15.	Expected Life of Mines	19year from 2017
16.	Lease Period	20years upto 2022
17	Thickness of murrum/OB	
	Minimum	0.0 m
	Maximum	4.0 m
18	Mode of transportation	Road
19	Area to be covered under dumps	Nil
20	Area to be covered under open pit	13.55ha
21	Area to be reclaimed by lease period end	3.63ha
22	Area to be converted as water body	9.92ha

23	Area to be covered under plantation	3.88 ha
24	Average MSL	361-315m
25	Ground water table	
25	Monsoon period	30m bgl (285m MSL)
	Dry month	35m bgl (280m MSL)
26	Production per day	864.00
27	Dumper required per day with capacity	36no and 24T

### **GEOLOGY OF THE MINE**

Exposures of Iron ore are seen in the working pit developed in the area. Outcrops of Iron ore are seen in most of the area, existence of iron ore is from the surface of the area. Three working pits are excavated in the area in which exposures of iron ore are seen from 12 to -40 m. adjoining eastern part of lease area is forest land. Southern adjoining lease area is mining lease area of Iron owned by other lessee. Iron ore exist in the form of hematite. Within the lease area, good exposure, of Iron ore and Iron rich shale can be seen. It consists of deep reddish black shale with occasional bands and lenticles of red jasper and a siliceous matter. The shale is thin, flaggy, siliceous and ferruginous. Existence of Jasper is seen within the shale which is brilliant red in colour due to the iron content. The ferruginous shale is soft in nature and can be easily extracted. The trend of rocks are N 30<sup>o</sup> W- S 30<sup>o</sup> E with dip of 2 to 5<sup>o</sup> south west.

### **Details of existing pits**

Pit no.	Broken area m <sup>2</sup>	Pit bottom area m <sup>2</sup>	Surface MSL in m. (range)	Pit bottom MSL in m. (lowest)	Max. No of benches on any side of pit				Over all slope
					Type	Bench no	Ht (avg.) m.	Width (avg.) m.	
Pit-A (470x 60 x 15-25)	28200	25000	347-331	314	OB and mineral	B-1	5	7	45 <sup>o</sup>
						B-2	10	13	
						B-3	2	6	
						B-4	4	20	

Pit-B (230x85x 1-10m)	19550	16000	354-338	335-325	OB and mineral	B-1	2	6	45 <sup>0</sup>
						B-2	5	9	
						B-3	4	11	
						B-4	6	10	
						B-5	5	10	
						B-6	9	20	
Pit-C (225x80x 12-40m)	18000	15000	351-358	314	Mineral and intercalated waste	B-1	12	18	55 <sup>0</sup>
						B-2	5	9	
						B-3	4	5	
						B-4	6	7	
						B-5	13	14	
						B-6	4	4	

### **Mining Method**

- Topography of the area is undulating having small hillocks in western, northern and south eastern part of the area. Highest elevation of the area is 361 m. in south western part of the area, lowest elevation of the area 315m. in southern part of the area. Elevation difference between highest and lowest elevation is about 46 m.
- Three large working pits are there in revenue part of the area. Pit A 470 x60x15-25 m. Pit B 230X85X1-10 m. and pit C 225x80x12-40 m.
- Three waste dumps and one mineral stack is there in north western part of the area.
- Opencast other than fully mechanized method of mining are proposed for the subject mine. Blasting is not required for proposed mining hence proposal of blasting is not given.
- Mineral is exposed from the surface hence proposal of development benches are not required. During the proposed mining, all three pits will be merging together and one large pit will be developed.
- During the past mining about 1.95ha area was backfilled by using mine waste up to 315m MSL.

**Existing and proposed land use plan**

<b>Items</b>	<b>Existing</b>	<b>At the end of conceptual period</b>
Total lease area	14.70ha	
Area under pits	6.575ha	13.55ha
Area under Dumps	0.8281ha	Nil
Area to be reclaimed	1.95 ha	3.63ha
Infrastructure & Road	0.26 ha	0.26ha
Mineral storage	0.1450ha	Nil
Plantation	1.0ha	3.88ha
Water reservoir	1.50ha	9.92ha

**Details Of Existing And Proposed Garland Drain**

<b>Garland drain no.</b>	<b>Location of Garland drain</b>	<b>Size mL X mW X mD</b>
<b>Existing Garland drain</b>		
EGD_1	Along the dump	200.0 X 0.5X 0.50
EGD_2	Along the haul road	127.0 X 0.25X 0.25
EGD_3	Along the Haul road	190.0 X 0.25X 0.25
<b>Proposed Garland drain</b>		
PGD-1	Along the slope of hill and haul road	452.0 X 1.0 X 1.0
PGD_2	Along the Slope of Hill (BP-8 to BP_18)	768.0 X 1.0 X 1.0
PGD_3	Along the dump	152.0 X 1.0 X 1.0
PGD_4	Along the lease boundary (BP_5 to BP_7)	200.0 X 1.0 X 1.0

- It is proposed to make 21 number of settling pits within the garland drain and proposed to connect drains to large settling tanks through these pits to avoid silt discharge from open ended drain.
- Following settling pits are suggested to control sedimentation problem.

**Details of Proposed Settling Pit**

<b>Identified Drain with No.</b>	<b>No. of Settling Pit</b>	<b>Size of Settling Pit (M) L X W X D</b>
EGD_1	PSP_1 & PSP_2	0.5x0.35x0.5
EGD_2	PSP_3 & PSP_4	0.5x0.35x0.5
EGD_3	PSP_4 to PSP_7	0.5x0.35x0.5
PGD_1	PSP_8 to PSP_13	0.5x0.35x0.5
PGD_2	PSP_14 to PSP_17	0.5x0.35x0.5
PGD_3	PSP_18 to PSP_19	0.5x0.35x0.5
PGD_4	PSP_20 to PSP_21	0.5x0.35x0.5

- There is a water body cum settling tank in lease area. 01 number of also settling tanks is proposed in southern part of lease area. Details has been given in below:

<b>Details of existing and proposed settling Tank</b>		
<b>Settling tank no.</b>	<b>Location</b>	<b>Size</b>
<b>Existing settling tank</b>		
Settling tank No. 1	west	6.0m Dia x 3m
<b>Proposed settling tank</b>		
PST_1	West	0.25 x 6.0

**SOLID WASTE MANAGEMENT**

- Waste will be generated in the form of shale waste; it is intercalated with iron ore. About 20% volume is likely to be generated as waste. There are three external dump observed in the western direction of the lease area, which covers about 0.8481ha area.
- During previous working, 35343m<sup>3</sup> mine waste was generated, which was used for backfilling of southern excavated area i.e. 1.95ha area.
- During the proposal period and conceptual period, about 1,11,855 cubic meter and 3,50,000cubic meter mine waste i.e. shale/murrum will be generated respectively and about 16700 cubic meter lateritic soil will be generated and same will be spread over

the backfilled area. Simultaneously backfilling is proposed at existing excavated area. At end of conceptual period about no area will be covered by waste dump.

- During the conceptual period about 1.68ha will be backfilled using existing mine waste and generated mine waste.
- During the conceptual period about 13.550 ha area will be excavated and out of this, 3.63 ha area will be backfilled using mine waste. Backfilled area will be rehabilitated by way of afforestation and 9.92ha area will be converted as water reservoir.

### **Existing afforestation Status of the ML Area**

<b>S. No.</b>	<b>Name of tree</b>	<b>Numbers</b>
1	Peepal	5
2.	Gulmohar	80
3.	Mango	100
4.	Jamun	60
5	Neem	180
6	Alstonia	120
7	Amaltas	150
8	Sagon	100
9	Ashok	40
10	Kachnaar	20
11	Shahtoot	10
12	Falsa	20
13	Banian	5
14	Babool	30
15	Bamboo	80
<b>Total</b>		<b>1000</b>

### **Time Bound Plantation Schedule**

<b>Year</b>	<b>Area (in sq mt)</b>	<b>Number of Plants</b>
1 <sup>st</sup>	5000 sqm + 4000m (Road side)	1050 + 1600 = 2650
2 <sup>nd</sup>	5000 sqm + 4000m (Road side)	1050 + 1600 = 2650
Cp	18800sqm	3948
<b>Total</b>	<b>28800+ 4000m</b>	<b>6048+3200 = 9248</b>

**Proposed Plantation Detail**

<b>Description</b>	<b>Qty</b>	<b>Location</b>
<b>Forest Trees</b>		
Neem	2000	Along the lease Boundary in mine premises and transportation route
Bans	2000	
Kachnar	1000	
<b>Ornamental Trees</b>		
Amaltash	500	Along the transportation road/ in premises
Gulmohar	500	Along the transportation road/ Along the transportation road/ in premises
Satparni	500	Along the lease Boundary in mine premises
Karanj	500	Along the lease Boundary in mine premises and transportation road
<b>Fruit Trees &amp; Ornamental</b>		
Awala	500	In mine premises
Mango	100	Along the lease Boundary in mine premises and transportation road
Jamun	48	Along the lease Boundary in mine premises and transportation road
Imly	500	Along the lease Boundary in mine premises and transportation road
Kachnar	100	Along the lease Boundary in mine premises and transportation road
<b>Medicinal Trees</b>		
Drum Stick	500	Along the lease Boundary in mine premises
<b>Commercial value Trees</b>		
Mahua	500	Along the lease Boundary in mine premises and transportation road
<b>TOTAL</b>	<b>9248</b>	

**Budget for plantation**

Year	Head	Qty	Rate (Rs.)	Amount (Rs.)
1 <sup>st</sup>	Saplings and other related work	1050	250	2,62,500.00
2 <sup>nd</sup>	Saplings and other related work	1050	250	2,62,500.00
CP	Saplings and other related work	3948	250	9,87,000.00
		6048	<b>Total</b>	<b>15,12,000.00</b>
	<b>Along the transport road</b>			
1 <sup>st</sup>	Saplings, with soil work and pesticides and tree guard	1600	355/-	5,68,000.00
2 <sup>nd</sup>	Saplings, with soil work and pesticides and tree guard	1600	355/-	5,68,000.00
	<b>Total</b>	<b>3200</b>		<b>11,36,000.00</b>
		<b>Grand total</b>		<b>26,48,000.00</b>

**SOCIO-ECONOMIC ENVIRONMENT (CSR)**

<b>Proposed CRS Activities</b>				
SN	Plan	Activity	Place of activity	Budgetary provisions (Rs in lakh)
1.	Promotion of quality education	(A) Computer education: providing at least 02 computers in nearby school at Panihar, Gayagaon and providing facilities of teacher for computer education and basic education. (B) Providing financial support to the village school.	Nearby Village School (04no.) Computer @ Rs. 25,000 Teacher @ Rs. 8000/month. Need based support for building repairing, toilets, fresh water supply etc through Gram Panchayat / Gram Sabha	1.00 0.96 1.00
2	Solar light	5 no. of Solar street light provide to nearby villages Maheshwara,	12 months	2.00



		tola, Panihar, Nayagaon		
3	Free medical camp	Medical Checkup facility, first aid and other welfare activities for nearby villagers	Monthly	4.00
4	Vocational training	Skill development center established at Maheshwara & Panihar for youth, woman's i.e. motor winding training, stitching training for woman and girls	yearly	2.00
5	Sanitation	Toilet facility with water tank will be provided at anganwadi center and primary school at Maheshwara, Nayagaon & Panihar	Yearly	1.0
			<b>Total</b>	<b>11.96</b>

**Expenditure on Environmental Management Plan (EMP)**

<b>EXPENDITURE ON ENVIRONMENTAL MONITORING</b>					
<b>S. No.</b>	<b>Head</b>	<b>Approx Capital cost (Rs In lacs)</b>	<b>Basis</b>	<b>Approx. recurring cost per annum (in lacs)</b>	<b>Basis</b>
1	Air pollution monitoring	2.0	Cost includes water spraying arrangement	2.25 (Rs 4500/- per sample)	Expected cost includes regular monitoring by approved third party
2	Water pollution monitoring	3.0	Include cost of septic tank, garland drain, Settling tanks	1.00 Rs 3500/- per sample for G/w, S/w, M/D etc)	Expected cost includes regular monitoring by approved third party
3	Noise pollution monitoring	Nil	-	0.25	Expected cost includes regular monitoring by approved third party

4	Solid waste management	3.0		0.12 @1000/- per month	Expected cost of cleaning and maintenance
5	Environmental Monitoring And management	1.5	-	2.0	Recurring cost would incur on hiring of consultants for environmental management
6	De-siltation of pit and ST		-	1.0 (0.50 in six month)	Six monthly basis
	<b>Total</b>	<b>9.50</b>		<b>6.12</b>	

**Total Cost (EMP + CSR+ plantation + Monitoring) (Lakh)**

<b>Particular</b>	<b>Capital</b>	<b>Recurring per annum</b>
Dust Suppression through tanker over 4.0km road * 6.0m (15Rs/km) Approx running per day 32km@300 day (over road)		1.44@1.50
Dust Suppression through tanker over 0.5 km road * 6.0m (20Rs/km) Approx running per day 4.0km@300 day (over road)		0.24@0.25
Sub total	-	1.75
Roads repair and maintenance (4.0km@2.0lakh per Km)	37.00	8.00
Sub total	-	8.00
CSR cost	-	11.96
Sub total	-	11.96
Occupational health and safety exp.	4.0	1.80
Sub-total	4.0	1.80
Environmental Monitoring cost	9.50	6.12
Sub-total	9.50	6.12
Plantation (Capital cost) Along the village Road	11.36	
Maintenance of Plantation (Along the village Road & lease area)		2.25
Plantation (Capital cost) within lease area	15.12	
Sub-total	26.48	2.25

Fencing around the lease periphery (1880m @300 running meter)	5.46@5.50	
Maintenance of fencing		0.94@1.0
Sub-total	5.50	1.00
Total	82.48	32.88

The issues of public hearing were also discussed and PP informed that commitments made during public hearing will be fulfilled by the PP and budgetary provisions has been made for them. As no balsting is proposed and concurrent back filling is proposed, the issue of cracks and OB at road side does not seems appropriate. During the PPT, it was reported by PP that the mine is on hillock having 46mt elevation difference. Reserve detail were also 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. As reported that water table is around 30-35 mt BGI and ultimate depth is proposed 7 mtrs bgl. Hence water table will not be intersected. PP has also submitted MoEF&CC compliance report and compliance status was found satisfactory on most of the environmental issues. After Presentation, PP was asked to submit response on following:

1. Revised EMP budget as suggested by the committee adding the cost of mineral transportation road construction.
2. CSR & Environmental Monitoring Cell.
3. Details of extent of mechanization.
4. Photographs showing lease boundary pillars.

PP has submitted the response of above quarries vide letter dated 08/12/2017 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 expansion of Iron Ore production capacity from 20,000 MTPA to 2,62,538 Ton per year at Khasra No. – Part of 1262 in Village- Panihar, Tehsil- Gird, Distt. – Gwalior (M.P.) Lease Area – 14.70 Ha 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 expansion 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. PP will obtain other necessary clearances/NOC from respective authorities.

**(B) MINING OPERATIONAL PHASE**

8. No drilling and blasting is permitted as per the approved mine plan and submissions made by the PP during presentation.
9. 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) including the village side to provide additional protection in one year only.
10. 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 9248 no's of trees will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
11. Transportation of material shall be done in covered vehicles.
12. Transportation of minerals shall not be carried out through forest area.
13. 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.
14. As per proposal alternate route with length of 4000 mars shall be used for transportation of mineral. The same shall be developed and maintained by the PP.
15. As proposed, garland drains with protective bunds Along the slope of hill and haul road Along the Slope of Hill (between pillar 8 to pillar -18), Along the dump and

Along the lease boundary (BP\_5 to BP\_7) shall be provided having size of 452.0m X 1.0m X 1.0m, 768.0m X 1.0m X 1.0m, 152.0 mX 1.0m X 1.0m, 200.0m X 1.0m X 1.0m respectively.

16. One other settling tank of 2500 mt x 6.0mt shall be provided apart from the existing settling tank of 6.0m Dia x 3m. for proper sedimentation and retention connected with garland drains shall be provided.
17. All garland drains shall be connected to settling tanks through settling pits ( 17 numbers ) 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.
18. Regular water spraying should be practiced on 4000 meter long 06 meter wide transportation road for dust suppression apart from the haul road and lease area. It shall be ensured that water spraying shall be practiced at least 4 times in a day.
19. The existing and proposed land use plan of the mine is as follows:

<b>Items</b>	<b>Existing</b>	<b>At the end of conceptual period</b>
Total lease area	14.70ha	
Area under pits	6.575ha	13.55ha
Area under Dumps	0.8281ha	Nil
Area to be reclaimed	1.95 ha	3.63ha
Infrastructure & Road	0.26 ha	0.26ha
Mineral storage	0.1450ha	Nil
Plantation	1.0ha	3.88ha
Water reservoir	1.50ha	9.92ha

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. 70.52 lacks and Rs. 20.92 lacks /year are proposed as recurring expenses out of which Rs. 26.48 lacks is proposed for green belt development and Rs. 2.25 lacks /year for recurring expenses for plantation in the proposed EMP of this project.
  26. Under CSR activity, Rs. 11.96 lacks are proposed for the next 05 years in 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 08/12/2017.
  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.
- 4. Case No. - 5597/2017 M/s A.P.Trivedi Sons, Main Road, Balaghat, MP – 481001 (SIA/MP/MIN/19211/17) Prior Environment Clearance for Manganese Ore Mine in an area of 4.30 Ha.. (4386 MTPA ) (Khasra no. 468B) at Village- Ramrama, Tehsil - Waraseoni, Dist. Balaghat (MP)**

This is case of **Manganese Ore Mine**. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at **Khasra no. 468B, at Village- Ramrama,**



	Tondiya Nalla - 7.25 km - ESE Sarathi Tank - 8.75 km - NNE Mahadeo Nalla - 0.50km - WSW
Nearest Hill Ranges	None within 10 km radius
Source of Water for mine	Hand pump, Mine pit
Other mines located within 10km radius	8 mines 1. Pacific Export, Netra 2. J. K. Minerals, G. F. Sonewani 3. J. K. Minerals, Katangjhari - I 4. J. K. Minerals, Katagjhari -II 5. Vijay Khandelwal, Botejhari 6. Sandesh Developers, Kamthi 7. AP Trivedi Sons – 43.086ha 8 . AP Trivedi Sons – 2.452ha
Industry located within 10km radius	None
Surrounded by	North- Other mines of same lessee followed by forest land West – Mahadeo Nalla followed by other mine of same lessee South- Forest land East- G. F. Sonewani Forest

**CO-ORDINATE OF THE LEASE BOUNDARY PILLAR**

- 1- 21°51'32.60"N - 79°56'20.10"E, 2- 21°51'30.10"N - 79°56'25.10"E  
3- 21°51'27.10"N- 79°56'25.50"E 4- 21°51'23.60"N-79°56'24.80"E  
5- 21°51'18.20"N - 79°56'24.40"E 6- 21°51'18.60"N - 79°56'21.90"E  
7- 21°51'21.90"N - 79°56'21.60"E 8- 21°51'25.40"N- 79°56'21.30"E  
9- 21°51'30.30"N - 79°56'20.45"E

**It was reported by the PP that**

- The lease area comes under forest land and lessee has already obtained first stage forest clearance and submitted the copy of minutes of REC dated 10/01/2017.



- Two other lease area are located within 500m radius
- The scheme of mining with progressive mine closure plan has been approved by IBM, Nagpur.

**Salient feature of the lease area**

<b>Particulars</b>	<b>Details</b>
Type of Mine	Opencast
Mining Lease Area	4.30 ha
Existing Pits & Quarries	0.33ha
Existing Dumps	3.97ha
Infrastructure and road	Nil
Mineral Storage	Nil
Plantation	-
Water body	Nil
Existing backfilled area	Nil
Mineable Reserve	19671.00 tonnes
Existing depth of mining	10m bgl (332m MSL)
Ultimate depth of mining	10m bgl (332m MSL)
Method of mining	OTFM
Ultimate Pit Slope	45°
Proposed capacity of mines	4386 tonnes per annum
Expected Life of Mines	7 years
Lease Period	50 year
Thickness of soil/OB	
Minimum	0.0 m
Maximum	4.0 m
Stripping Ratio	1:4.2
Mode to transportation of Manganese ore	Road
Production per day (MT)	18 TPD
Dumper per day with capacity	1 trip per day
Area to be covered under dumps at the end of conceptual period	3.97ha
Area covered under pit	0.33ha
Area to be reclaimed by lease period end	Nil
Area to be covered under plantation by lease period end	3.97ha
Area to be covered under water reservoir by lease period	Nil

end	
Average MSL	353-325m MSL
Ground water table	
Monsoon period	15m bgl (310m MSL)
Dry month	20m bgl (305m MSL)

<b>Summarised of geological reserves and mineable reserves</b>	
Area under G2 category = 68m <sup>2</sup> * 1.5m	136.00m <sup>3</sup>
90% volume of Mn ore in 136 * 0.90	122.00 m <sup>3</sup>
Total 332 in T 122 * 3.5	427.00T
Less ore blocked in 7.5m mining limit 222 -12m <sup>2</sup> * 2 * 0.90 * 3.5	76.00T
Less ore blocked in ultimate pit slope	Nil
Total 122 (probable reserves) = 427- 76	351.00T
Area under G3 (sub grade dump) 1400m <sup>2</sup> * 2.0m	2800.00 m <sup>3</sup>
90 % recovery	2520.00m <sup>3</sup>
Total 333 in T	8820.00T
Old dump = 3.22ha x 2.0m thickness	64400.00 m <sup>3</sup>
Recovery from old dump = 64400x 0.10	19320.00 m <sup>3</sup>
Total mineable reserves = 19320+ 351	19671.00T
Production during SOM period	11207.00 T
Balance reserves = 19671-11207	8464.00 T
Production capacity	4386.00 TPA
Mine life = balance reserves/production + 5 = 8464/4386+5 = 1.93+5	6.93 says 7 years

**Post land use plan**

<b>S. No.</b>	<b>Heads</b>	<b>At Present Ha.</b>	<b>At the end of SOM period - Ha</b>	<b>At the end of conceptual period-Ha</b>
1	Area Under Mining	0.33	0.33	0.33
2	Storage of Top Soil	-	Nil	Nil

3	Overburden Dump (S)	3.97	3.97	3.97
4	Mineral Storage	Nil	Nil	Nil
5	Infrastructure (Workshop, Admin Block Etc.)	Nil	Nil	Nil
6	Water reservoir	Nil	Nil	Nil
7	Greenbelt	Nil	1.50	3.97
8	Backfilled area	Nil	Nil	Nil
9	Tailing Pond(S)	Nil	Nil	Nil
10	Effluent Treatment Plant.	Nil	Nil	Nil
11	Mineral Separation Plant	Nil	Nil	Nil
12	Township	Nil	Nil	Nil
13	Others To Specify (Retaining Wall, Settling Tank & Garland Drain)	Nil	Nil	Nil

### **Mining Method**

- There is one pit i.e. 0.33ha has been observed in lease area and one dump has also observed in lease area which is covered about 3.97ha area with height of 7.0m
- About 3.22ha dump area, out of 3.97ha is considered for waste dump with Mn ore while rest area 0.75ha is considered for only waste of weathered Mica schist/and siliceous material.
- Only dump ore working will be carried out during SOM period upto 2.0m depth
- Proposed mining will be carried out by opencast OTFM of mining using 3DX, excavator, etc.
- The mining operations are proposed from the southern end and will progress towards North.
- Only one development cum production face of 2.0m height is proposed. The face will advance in North direction.
- The mining floor will be maintained at MSL 343-339m.

During presentation PP informed that the lease area is quite old and worked earlier. This is the forest area which has been used earlier for dumping. The entire area is covered by old dump and part of the area has sub grade of Mn ore. Due to change in threshold values of Mn ore, the earlier low grade Mn ore as waste is considered saleable and therefore has been taken under mineral working.

The subject excavation is part of pit number 1 of M/s A P Trivedi Sons, Ramrama Mn Mines of 43.086 ha. The applied area is contiguous to working mines of same applicant and working pits is contiguous within the applied area hence partial exposed Mn ore in pit. It is reported that there is one pit i.e. 0.33ha has been observed in lease area and one dump has also observed in lease area which is covered about 3.97ha area with height of 7.0m out of 3.97ha, about 3.22ha dump area, is considered for waste dump recovery with Mn ore while rest area 0.75ha is considered for only waste of weathered Mica schist/and siliceous material. Only dump ore working will be carried out during SOM period up to 2.0m depth. The mining operations are proposed from the southern end and will progress towards North. Only one development cum production face of 2.0m height is proposed. The face will advance in North direction. The mining floor will be maintained at MSL 343-339. The proposed method is opencast mining and accordingly the mine plan has been approved.

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. Cumulative impact should be studied as proposed site is surrounded by other mines.
2. Environmental Cost Benefit analysis should be carried out and submitted with the EIA report.
3. Environmental Policy of the company issued by the director with environmental management cell should be submitted with the EIA report.
4. Issue like storm water management plan, mine water discharge, safety barrier zone with the neighboring mines etc. should be properly addressed in the EIA.
5. Details of afforestation done till date with name and number of species and proposed plantation scheme should be provided in EIA with supporting photographs.
6. Proposed workers facilitate and workers welfare scheme should be discussed in the EIA report with financial allocations.
7. Inventory of operating / proposed mines within 2 Km around the said mine.
8. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
9. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
10. Any alternate route avoiding the nearby habitations.
11. Land use plan should be plotted on the map.
12. 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.

13. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
14. 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.
15. 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.
16. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.

**5. Case No. - 5598/2017 M/s A.P.Trivedi Sons, Main Road, Balaghat, MP – 481001 (SIA/MP/MIN/19209/17) Prior Environment Clearance for Manganese Ore Mine in an area of 2.452 Ha.. (888 MTPA) (Khasra No. 404, 408) at Village- Ramrama, Tehsil - Waraseoni, Dist. Balaghat (MP) (TOR)**

This is case of **Manganese Ore Mine**. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (**Khasra No. 404, 408**), at **Village- Ramrama, Tehsil - Waraseoni, Dist. Balaghat (MP) 2.452 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. 1142 dated 15/11/2017. PP vide letter dated 29.11.2017 has also submitted coordinates of all boundary pillars.

**Environment setting**

<b>Particulars</b>	<b>Details</b>
Locations	Ramrama, Tehsil- Waraseoni, Balaghat (MP)
Toposheet No.	54O/13
Latitude	21°51'32.3 to 21°51'38.0" N
Longitude	79°56'10.60" to 79°56'20.2" E
General ground level	346 m MSL
Elevation range	Highest-348m MSL                      lowest- 344m MSL
Temperature	Min: 8.5°C and Max: 47.5°C
Nearest Highway	Katangi- Waraseoni SH - 7.0
Nearest Railway Station	Chote Kochewahi – 7.75 km
Nearest Airport	Nagpur – 172 km
National park/Wild Life	None

Sanctuaries within 10km radius	
Reserved / Protected Forest within 10km radius	G. F. Sonewani RF
Surrounding village within 1 km area of the project.	Penditola NW - 0.60km -
Nearest River	Sarathi River N 8.25km -
Nearest Lake/ Ponds	Katngajhari Canal -2.75km -SE Chapa Tank -1.25 - WSW Katangjhari Tank -1.75km -SE Kas Nalla - 3.25km - WSW Dhokriya Nalla - 5.0 km - WSW Tondiya Nalla - 7.25 km - ESE Sarathi Tank - 8.75 km - NNE Mahadeo Nalla - 0.50km - WSW
Nearest Hill Ranges	None within 10 km radius
Source of Water for mine	Hand pump, Mine pit
Other mines located within 10km radius	8 mines 1. Pacific Export, Netra 2. J. K. Minerals, G. F. Sonewani 3. J. K. Minerals, Katangjhari - I 4. J. K. Minerals, Katangjhari -II 5. Vijay Khandelwal, Botejhari 6. Sandesh Developers, Kamthi 7. AP Trivedi Sons - 43.086ha 8 . AP Trivedi Sons - 4.30ha
Industry located within 10km radius	None
Surrounded by	North- Agricultural land West - Mahadeo Nalla followed by other mine of same lessee South- Other mine of same lessee East- G. F. Sonewani Forest

**CO-ORDINATE OF THE LEASE BOUNDARY PILLAR**

1- 21°51'32.70"N - 79°56'20.20"E, 2- 21°51'32.30"N - 79°56'16.90"E  
3- 21°51'35.10"N- 79°56'12.70"E 4- 21°51'37.50"N-79°56'10.60"E  
5- 21°51'37.90"N - 79°56'11.10"E 6- 21°51'37.50"N - 79°56'12.60"E  
7- 21°51'35.70"N - 79°56'13.80"E 8- 21°51'36.10"N- 79°56'14.70"E  
9- 21°51'38.00"N - 79°56'13.55"E 10- 21°51'36.80"N- 79°56'16.50"E  
11- 21°51'36.00"N - 79°56'18.40"E 12- 21°51'35.40"N- 79°56'20.00"

It was reported by the PP that

- The lease area comes under forest land and lessee has already obtained forest clearance vide letter no. 615 dated 10/04/2006.
- Two other lease area are located within 500m radius
- The scheme of mining with progressive mine closure plan has been approved by IBM, Nagpur

**Salient feature of the lease area**

<b>Particulars</b>	<b>Details</b>
Type of Mine	Opencast
Mining Lease Area	2.452 ha
Existing Pits & Quarries	0.05ha
Existing Dumps	0.45ha
Infrastructure and road	Nil
Mineral Storage	Nil
Plantation	-
Water body	Nil
Existing backfilled area	Nil
Mineable Reserve	14712 tonnes
Existing depth of mining	1.5m bgl
Ultimate depth of mining	2m bgl (442m MSL)
Method of mining	Opencast
Ultimate Pit Slope	45°
Proposed capacity of mines	888 tonnes per annum
Expected Life of Mines	17 years
Lease Period	30 year upto 2032
Thickness of soil/OB	
Minimum	0.0 m
Maximum	0.1 m
Stripping Ratio	1:1.41
Mode to transportation of Manganese ore	Road
<b>Particulars</b>	<b>Details</b>
Production per day (MT)	4.44 TPD
Dumper per day with capacity	1 trip per weak
Area to be covered under dumps at the end of conceptual period	Nil
Area covered under pit	2.0ha

Area to be reclaimed by lease period end	2.0ha
Area to be covered under plantation by lease period end	2.10ha
Area to be covered under water reservoir by lease period end	Nil
Average MSL	348-344m MSL
Ground water table	
Monsoon period	34m bgl (310m MSL)
Dry month	39m bgl (305m MSL)

<b>Summarised of geological reserves and mineable reserves</b>	
Area under proved category 80% of the total area	19616.00m <sup>2</sup>
Proved category reserves = 19616 x 1.5m	29424 m <sup>3</sup>
Recovery of ore from proved category = 29424 x 0.20	5884.80 m <sup>3</sup>
Total proved mineral = 5884.80 x 3.0 BD	17654.40 T
90 % recovery	15888.96 T
Area under probable category 20 % of total area	4904.00m <sup>2</sup>
Probable category reserves = 4904 x 1.5m	7356.00 m <sup>3</sup>
Recovery of ore from probable category = 7356 x 0.20	1471.20 m <sup>3</sup>
Total probable mineral = 1471.20 x 3.0 BD	4413.60 T
90 % recovery	3972.24 T
Total proved and probable reserves = 15888.96 + 3972.24	19861.20 says 19860.00T
Less ore blocked in 7.5m mining limit	5148.00T
Less ore blocked in ultimate pit slope	Nil
Total mineable reserves	14712.00T
Production during SOM period	2400.00
Balance reserves = 14712-2400	12312.00

**Post land use plan**

S. No.	Heads	At Present Ha.	At the end of SOM period - Ha	At the end of conceptual period-Ha
1	Area Under Mining	0.05	0.30	2.0
2	Storage of Top Soil	-	Nil	Nil
3	Overburden Dump (S)	0.45	Nil	Nil



4	Mineral Storage	nil		Nil
5	Infrastructure (Workshop, Admin Block Etc.)	0.025	0.062	0.4520ha
6	Water reservoir	Nil		Nil
7	Greenbelt	Nil	0.045	2.10ha
8	Backfilled area	Nil	Nil	2.0ha
9	Tailing Pond(S)	Nil	Nil	Nil
10	Effluent Treatment Plant.	Nil	Nil	Nil
11	Mineral Separation Plant	Nil	Nil	Nil
12	Township	Nil	Nil	Nil
13	Others To Specify (Retaining Wall, Settling Tank & Garland Drain)	Nil	Nil	Nil

### **Mining Method**

- The float ore deposit occurs below the thin soil cover at a few places. However at many places in the area the float ore deposit is exposed and available on the surface, which is about 1.25m in thickness.
- Only Float ore working will be carried out during SOM period up to 1.5 to 2.0m depth
- Proposed mining will be carried out by opencast method of mining using hand tools.
- Lumps of Mn ore are being transported from pit bottom to surface manually.
- From the loading point of view, mineral is transported by trucks/ dumpers to the user industries.
- There are six old trail pits in the lease area, which is covered about 0.05ha area.

The lease area is quite old and is the forest area which has been not been used for mining earlier. Initially the lease area hole by M/s A P Trivedi & Sons for the area of 69.929 ha., which was applied for renewal and comprises of revenue as well as forest land. The only part of revenue land was renewed which was 43.086 ha and same area is under operation for which EC was accorded by SEIAA of MP. The area of 9.070 ha was applied for renewal and 2.452 ha area was proposed for renewal subject to condition of forest clearance. Due to late receipt the forest clearance, no mining activity was carried in 2.452 ha of area.

Float ore deposit in the area is well exposed in old trail pits. This deposit occurs below thin soil cover at few places. At many places in the area, the float ore deposit is exposed and available on the surface which is about 1.25 thicknesses.

The subject excavation is part of pit number 1 of M/s A P Trivedi Sons, Ramrama Mn Mines of 43.086 ha. The applied area is contiguous to working mines of same applicant and working pits is contiguous within the applied area hence partial exposed Mn ore in pit. Only Float ore working will be carried out during SOM period up to 1.5 to 2.0m depth. Proposed mining will be carried out by opencast method of mining using hand tools. Lumps of Mn ore are being transported from pit bottom to surface manually. The proposed method is opencast mining and accordingly the mine plan has been approved. The float ore deposit occurs below the thin soil cover at a few places. However at many places in the area the float ore deposit is exposed and available on the surface, which is about 1.25m in thickness. Only Float ore working will be carried out during SOM period up to 1.5 to 2.0m depth. Proposed mining will be carried out by opencast method of mining using hand tools. Lumps of Mn ore are being transported from pit bottom to surface manually. From the loading point of view, mineral is transported by trucks/ dumpers to the user industries.

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. Cumulative impact should be studied as proposed site is surrounded by other mines.
2. Environmental Cost Benefit analysis should be carried out and submitted with the EIA report.
3. Environmental Policy of the company issued by the director with environmental management cell should be submitted with the EIA report.
4. Issue like storm water management plan, mine water discharge, safety barrier zone with the neighboring mines etc. should be properly addressed in the EIA.
5. Details of afforestation done till date with name and number of species and proposed plantation scheme should be provided in EIA with supporting photographs.
6. Proposed workers facilitate and workers welfare scheme should be discussed in the EIA report with financial allocations.
7. Inventory of operating / proposed mines within 2 Km around the said mine.
8. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
9. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
10. Any alternate route avoiding the nearby habitations.
11. Land use plan should be plotted on the map.
12. 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.

13. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
14. 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.
15. 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.
16. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.

**6. Case No. - 5599/2017 M/s Meenakshi Metals Industries (LLP), 368, Civil Lines, Jhansi – 284001 (SIA/MP/IND/70695/17) Prior Environment Clearance for Manufacturing of MS Billets and TMT Bars 59000 MTPA at Village- Sidhguwan, Tehsil - Sagar, Dist. Sagar (MP)**

This is a rolling mill project. All non –toxic secondary metallurgical processing industries manufacturing >5000 tones/annum metal components are covered under the EIA Notification 2006 as amended 2009 and are mentioned at S.N. 3(a), B. Hence these projects are required to obtain prior EC before establishment. The project is proposed at Village- Sidhguwan, Tehsil - Sagar, Distt. - Sagar (MP).

PP has submitted ToR application forwarded by the SEIAA vide letter no. 1156 dated 16/11/2017.

1. Name of the project & its location:

**Non Toxic Secondary Metallurgical Industry**

**M/s Meenakshi Metal Industries (LLP)**

**Plot No. 60-64, Sector –K, Sidhguwan Industrial Area, District Sagar (M.P.)**

**Proposed Capacity with Product - MS Billets & TMT Bars – 59000 Metric Tonne Per Annum (MTPA)**

2. Name of the Company, Address Tele No. & E-mail :

**M/s Meenakshi Metal Industries (LLP)**

**368, Civil Lines, Jhansi- 284001 (U.P.), Mo. 9923334505, [mmi.tmt@gmail.com](mailto:mmi.tmt@gmail.com)**

3. Latitude and Longitude of the project.  
**Latitude : 23°53'45.70" N, Longitude : 78°51'0.99" E**
4. If a Joint venture, the names & addresses of the JV partners including their share.  
**Limited Liability Partnership firm, List of Partners are as follows:  
Shri Anant Nikhil Bansal – Designated Partner – Contribution – 25.0 Lakhs  
Smt. Nadita Bansal - Designated Partner- Contribution 25.0 Lakhs**
5. Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.

**The proposal is for new industry with proposed production capacity 59000 Metric Ton Per Annum to manufacture MS Billets and TMT Bars, by Induction Furnace, main Raw Material is Sponge iron and MS Scrap. The total Area of the Project is 23950 sqm. The land use of the project area is for industrial purpose as the land is allotted by MPAKVN. The Project site is well connected with Sagar – Jabalpur Highway at a distance of 800 meters.**

6. Cost of the project.- **The estimated project cost of project shall be approx. 17.0 crores.**
7. Whether the project is in Critically Polluted area.  
**No**
8. If the project is for EC under EIA Notification, 2006
  - a. For the first time appraisal by EAC (i) Date of ToR: (ii) Date of Public Hearing, location (iii) Major issues raised during PH and response of PP
  - b. Second appraisal (i) Date of first /earlier appraisal (ii) Details of the information sought by the EAC with the response of the PP.  
**Fresh case for EC**
9. If the project involves diversion of forest land (i) extend of the forest land (ii) status of forest clearance.  
**Not applicable**

10. If the project falls within 10 km of eco- sensitive area (i) Name of eco- sensitive area and distance from the project site, (ii) status of clearance from National Board for wild life.

**No eco- sensitive area within 10 km from project site, the project site is in Industrial Area.**

11. Waste Management (i)Water requirement, source, status of clearance (ii) Waste water quantity, treatment capacity, detail (iii) Recycling/reuse of treated water and disposal (iv) Solid Waste Management (v) Hazardous Waste Management.

**Water requirement would be 100 kld, mainly required for Cooling purpose and domestic usages. Source – Ground water or AKVN Supply. trade effluent will be nil and waste water from domestic use shall be 8kld, which will be treated in STP of 15 kld capacity. The STP will comprise of equalization tank, Primary Clarifier, Aeration, Secondary Clarifiers, and PSF and will work on activated sludge process. The entire treated water will be used for plantation and gardening purpose. Main solid waste will be generated in form of Iron Slag of 12000 MTPA, which will be used for raod making and filling low line area after iron recovery. The Hazardous waste will be spent oil and lubrication oil of 1.5 kld will be given to the recyclers as per the provision of Hazardous Waste Management Rules.**

**Water: Total water requirement will be for two purpose mainly for construction and operational purpose. The requirement is as follows:**

**Construction phase – 5 kld and Source Groundwater**

**Operation Phase**

<b>S. No.</b>	<b>Head</b>	<b>Quantity</b>
<b>1</b>	<b>Cooling</b>	<b>90.0 kld</b>
<b>2</b>	<b>Domestic</b>	<b>10.0 kld</b>
<b>1</b>	<b>Cooling</b>	<b>0.0</b>
<b>2</b>	<b>Domestic</b>	<b>8.0</b>

**Raw material required along with estimated quantity, likely source, marketing area of final product/s, mode of transport of raw material and finished product.**

<b>S.No</b>	<b>Raw Material</b>	<b>Qty (Existing)</b>	<b>Source</b>	<b>mode of transportation</b>
<b>1</b>	<b>MS Scrap /Sponge Iron</b>	<b>62000 MTPA</b>	<b>Indigenously Available</b>	<b>By Roads</b>
<b>2</b>	<b>Ferro Alloys</b>	<b>160 MTPA</b>	<b>Indigenously Available</b>	
<b>3</b>	<b>Fluxes</b>	<b>160 MTPA</b>	<b>Indigenously Available</b>	

12. Other details (i) Noise Modeling with noise control measures for airports (ii) Details of water bodies, impact on drainage if ant (iii) Details of tree cutting (iv) Energy conservation measures with estimated saving (v) Green belt development (20 % of construction projects and 33 % for others) (vi) Parking requirement with provision made.

**The water body exists in the project area, no tree cutting is required. Direct hot billets shall be used for making TMT Bars which avoids the addition Re Heating furnace, which save fuel like FO/Coal.**

**Greenbelt will be developed in 8000 sqm of the project area, and project authority will plant 2000 plants and species of native nature. Adequate parking arrangement shall be provided as the 7650 sqm land is left open.**

13. If the project involves foreshore facilities (i) Shoreline study (ii) Dredging details, disposal of dredge material (iii) Reclamation (iv) Cargo handling with dust control measures (v) Oil Spill Contingent Management Plan.

**Not applicable**

14. If the project involves Marine disposal (i) NOC from PCB in case of marine disposal (ii) details of modeling study – details of outfall diffusers, number of dilution expected, distance at which the outlet will reach ambient parameters 9 (iii) location of intake /

outfall. Quantity, (iv) detail of monitoring at outfall (v) Any other relevant information :

**Not Applicable**

15. Other information (i) Investment/Cost of the project is **Rs. 17 Crores** (ii) Employment potential **100 Nos** (iii) Benefits of the project **employment to 100 Nos of project and revenue / taxes to Govt. in form of excise duties.**

16. Date of Ground water clearance: **not required as project is located in Industrial area.**

17. Cost of proposed EMP and CSR (with detailed components & proposed activities) with capitol cost and recurring cost.

**Cost of EMP – Rs. 1.76 crores recurring cost – 8.5 Lakhs per year  
Proposed CSR – Rs. 3.60 Lakhs per year**

18. Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions.

**Plantation shall be done in 8000 sqm area with native species and plants like Shesham, Neem & Gulmohar. Budgetary provision for plantation is 5.0 Lakhs.**

19. Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details.

**No**

The case was presented by the PP and their consultant wherein PP submitted that M/s Meenakshi Metals Industries is a Limited Liability Partnership Company formed on 23/01/2012 having Registered office at 368 Civil Lines Jhansi (U.P.). The main object of the company is to set up steel furnaces and rolling mills and other products. The MPAKVN Sagar has allotted 23950 sqm land on Plot No. 60 – 64, Sector – K, Sidhguwan, Notified Industrial Area, Sagar Madhya Pradesh for Industrial activity of Manufacturing TMT Bars & MS Billets for a period of Ninety Nine years commencing from the date 28/06/2017 and ending on 27/06/2116. The lease deed has been registered on 29/06/2017. The Company is proposed to set up a secondary Metallurgical plant of capacity 59000 Metric Ton per annum

for manufacturing of MS Billets and TMT Bars on the above piece of land. This project activity is attracts the provision of EIA Notification 14<sup>th</sup> September 2006, and comes under the preview of Sr. 3(a) Metallurgical Industries (Ferrous & Non Ferrous) Subcategory B “All other non –toxic secondary metallurgical processing industries”. Further as the project area is located in Notified Industrial Area, Sidhguwan, Sagar Madhya Pradesh and the proposed capacity of the plant is less than 60,000 Metric Ton Per Annum, therefore as per the Office Memorandum issued by MOEF, GoI, vide dtd. 24<sup>th</sup> December 2013, its comes under the preview of B-2 Category and the same was considered by the committee as per MoEF&CC OM. During presentation it was further submitted by PP that it’s a zero discharge unit and to control fugitive emissions secondary fume extraction system will be provided. It was further discussed that the water requirement will be meet by MPAKVN and in case it the water is drawn from the aquifer, permission from CGWB will be obtained. During discussion it was suggested by the committee that PP should explore the possibility for reusing slag rather disposing it in the low lying area. After presentation PP was asked to submit response on following:

1. Dimensions/capacity of STP components.
2. Shift wise maximum persons employed at a time.
3. Revised plantation scheme with additional species.
4. Revised CSR & EMP as suggested by the committee with bifurcation in capital cost and recurring cost.

PP vide letter dated 08/12/2017 has submitted the reply of above quarries and the same 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 expansion of Iron Ore production capacity for Manufacturing of MS Billets and TMT Bars 59,000 MTPA at Village- Sidhguwan, Tehsil - Sagar, Dist. Sagar (MP) subject to the following special conditions:

#### **(A) PRE-CONSTRUCTION PHASE**

1. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
2. For dust suppression, regular sprinkling of water should be undertaken.
3. PP will obtain other necessary clearances/NOC from respective authorities.
4. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile



STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

**(B) CONSTRUCTION PHASE**

5. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
6. Fire extinguishers should be provided on site during construction/ plant erection period.
7. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
8. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
9. 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 1500 no's of trees will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
10. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
11. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.

**(C) POST CONSTRUCTION/OPERATIONAL PHASE**

12. Total water requirement for the project shall not exceed 100.00 KLD.
13. The domestic waste water should be treated in STP of 10 KLD.
14. No industrial effluent from the unit shall be discharged outside the plant premises and Zero discharge shall be maintained. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom and data connectivity must be provided to the MPPCB's server for remote operations.
15. To control the particulate emission from the induction furnace two numbers (08 T each), fume extraction system followed by bag filter meeting 50 mg/Nm<sup>3</sup> shall be installed.
16. As proposed, reverse pulse jet cleaning bag filters should be provided as APCD with 2<sup>nd</sup> stage fume extraction system on the top of the shed.

17. Hazardous wastes should be disposed off as per the authorization issued by MP Pollution Control Board.
18. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
19. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
20. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended, the Public Liability Insurance Act for handling of hazardous chemicals, Plastic Waste Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016 etc.
21. Dedicated parking facility for unloading of materials/wastes shall be provided in the facility premises. PP shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
22. The ambient air quality shall be monitored in and around the industry and results shall be submitted to the MPPCB. The locations for the ambient air quality monitoring shall be fixed and reviewed in consultation with the MPPCB.
23. Once in a year, health survey of the employees should be carryout.
24. The overall noise level in and around the facility area and D.G. Set shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
25. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
26. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.

**(D) ENTIRE LIFE OF THE PROJECT**

27. The proposed EMP cost is Rs. 176.50 lacks and Rs. 8.50 lacks /year are proposed as recurring expenses out of which Rs. 05.00 lacks is proposed for green belt

development and Rs. 01.00 lacks /year for recurring expenses for plantation in the proposed EMP of this project.

28. Under CSR activity, Rs. 3.60 lacks are proposed for the next 05 years in different activities and should be implemented through respective committees.
29. 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.
30. 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.
31. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
32. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
33. 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.

**7. Case No. - 5580/2017 Shri Tushar Upadhyay S/o Shri Mukesh Upadhyay, D-04, Alkapuri, Front of Gandhi Convent School, Ratlam, Dist. Ratlam, MP – 457001. Prior Environment Clearance for River Sand Deposit Quarry in an area of 8.30 Ha. (2550 cum per annum) (Khasra no. 526, 451) at Village- Ratangarh Pith, Tehsil - Bajna, Dist. Ratlam (MP)**

This is case of River Sand Mining. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 526, 451) at Village- Ratangarh Pith, Tehsil - Bajna, Dist. Ratlam (MP) 8.30 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 vides letter no.

5911, dated: 19/6/16 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

The case was earlier scheduled in 296 SEAC meeting dated 07-11-17 wherein 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 and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was again scheduled in this meeting dated 08-12-17 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 giving him last chance and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

**8. Case No. - 5601/2017 Smt. Laxmi Chamadia, Goenka Bhavan, Station Road, Katni, MP – 483501 Prior Environment Clearance for Dolomite & Quartz Mine in an area of 7.90 Ha.. (Dolomite - 149994 TPA & Quartz - 8634 TPA, Total - 158628 TPA) (Khasra no. 327/1, 327/2, 328) at Village- Malhan, Tehsil - Badawara, Dist. Katni (MP).**

This is case of for Dolomite & Quartz Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no. 327/1, 327/2, 328, at Village- Malhan, Tehsil - Badawara, Dist. Katni (MP). 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 vide letter no. 4774 dated 04/12/17 has reported that there is 5 more mine operating or proposed within 500 meters around the said mine. The total area of the all the mines within 500 mtrs are 18.88 ha.

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

S. No	Particulars	Details

1	Name of the project & its location:	Malhan Dolomite & Quartz Mine VILLAGE - Malhan, TEHSIL – Badwara, DISTRICT – KATNI, MADHYA PRADESH																																																
2	Name of the Company, Address Tele No. & E-mail :	Smt. Laxmi Chamadia Goenka Bhavan, Station Road. Katni (M.P.) 483501 laxmi2016chamadia@gmail.com Tele no. 9425157485																																																
3.	Latitude and Longitude of the project	<table border="1"> <thead> <tr> <th>Bound ary Pillar</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr><td>1</td><td>23°40'13.08"N</td><td>80°30'52.88"E</td></tr> <tr><td>2</td><td>23°40'14.80"N</td><td>80°30'53.20"E</td></tr> <tr><td>3</td><td>23°40'15.00"N</td><td>80°30'51.40"E</td></tr> <tr><td>4</td><td>23°40'16.60"N</td><td>80°30'50.60"E</td></tr> <tr><td>5</td><td>23°40'18.50"N</td><td>80°30'49.50"E</td></tr> <tr><td>6</td><td>23°40'17.90"N</td><td>80°30'45.10"E</td></tr> <tr><td>7</td><td>23°40'17.70"N</td><td>80°30'41.30"E</td></tr> <tr><td>8</td><td>23°40'13.30"N</td><td>80°30'42.70"E</td></tr> <tr><td>9</td><td>23°40'11.10"N</td><td>80°30'42.10"E</td></tr> <tr><td>10</td><td>23°40'10.10"N</td><td>80°30'39.90"E</td></tr> <tr><td>11</td><td>23°40'7.90"N</td><td>80°30'40.10"E</td></tr> <tr><td>12</td><td>23°40'8.30"N</td><td>80°30'44.90"E</td></tr> <tr><td>13</td><td>23°40'8.50"N</td><td>80°30'49.10"E</td></tr> <tr><td>14</td><td>23°40'11.10"N</td><td>80°30'50.10"E</td></tr> <tr><td>15</td><td>23°40'13.20"N</td><td>80°30'51.50"E</td></tr> </tbody> </table>	Bound ary Pillar	Latitude	Longitude	1	23°40'13.08"N	80°30'52.88"E	2	23°40'14.80"N	80°30'53.20"E	3	23°40'15.00"N	80°30'51.40"E	4	23°40'16.60"N	80°30'50.60"E	5	23°40'18.50"N	80°30'49.50"E	6	23°40'17.90"N	80°30'45.10"E	7	23°40'17.70"N	80°30'41.30"E	8	23°40'13.30"N	80°30'42.70"E	9	23°40'11.10"N	80°30'42.10"E	10	23°40'10.10"N	80°30'39.90"E	11	23°40'7.90"N	80°30'40.10"E	12	23°40'8.30"N	80°30'44.90"E	13	23°40'8.50"N	80°30'49.10"E	14	23°40'11.10"N	80°30'50.10"E	15	23°40'13.20"N	80°30'51.50"E
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4.	If a Joint venture, the names & addresses of the JV partners including their share	Lease Owner																																																
5	Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.	New (Existing) Lease Area 7.90 Hect. Mineral - Dolomite & Quartz Capacity- Dolomite-149994 Tonne Per year																																																

		Quartz-8634 Tonne Per year Total-158628 Tonne Per year Lease Period- 50 Year (05/05/1979 to 04/05/2029)
6	Whether the project is in the Critically Polluted Area (CPA):	No.
7	Cost of the project :	48 lakhs (Approx.)
8	Employment generated/to be generated:	15-20
9	Benefits of the project:	It's a mine of Dolomite and Quartz mineral.
9	Whether new or expansion project. If expansion: (i) from ..... MT to ..... MT (ii) ii What is the % of expansion	It's a new project (existing mine).
10	If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006.	No
11	If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEF	No
12	No. and Date of the ToR /and revised ToR, if any, letter issued by the authority.	N.A.
13	No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent)	N.A.
14	If the project was considered in EAC, Pl. gives dates of the meeting (s).	No
15	Type of Mine: (Open cast/Underground/mixed)	Open cost Mine

16	Capacity of the mine applied for	7.90 Hect.			
17	ML Area i. As per block allotment ii. As per approved mine plan	7.90 Hect.			
18	Date of approval of mine plan, mine closure plan, status & date	Approval Letter no. 17519 Date.13.09.2017			
19	Date of Board's approval:	No			
20	Date of Ground water clearance:	No			
21	Date of mine closure approval	Approval Letter no. 17519 Date.13.09.2017			
22	Cost of proposed EMP and CSR (with detailed components & proposed activities) with capitol cost and recurring cost	Details of CSR & EMP is given below:			
	Sr. No.	Environmental Management	Details of expenses	Expenses year (in Rs.)	pe
	1	Dust suppression	Two to three time in a day by tanker	1,50,000.00	
	2	Development of green belt area	Each year Plantation of 110 plants @ Rs 500/ plant & its annual maintenance	55,000.00	
	3	Environment Monitoring	Annual monitoring cost (2 time)	60,000.00	
	4	CSR Activities	CSR Activities will be done in nearby villages with the help of Gram Panchayat.	1,00000.00	
	5	Reclamation/Reha bilitation	Not required until mine reach it's optimum depth.	-	
	6	Miscellaneous		15,000.00	

	Total				3,80,000.00	
23	Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions.			Details are given below:		
	A Year	B Plantation during the year (No. of saplings)	C Area covered during the year in m <sup>2</sup>		D Survival rate%	E Remarks location/ Species
			BF+Dump Area Nos./ Area (SQM)	Green belt Nos./area (Sqm)		
	2017-18	110		110/400	60	Neem, Gulmohar, Mango, Sagwan, Shisham, Kachnar, Gamhar, Jamun, Agave etc. Plantation @ 1/3.5 m <sup>2</sup>
	2018-19	110		110/400	60	
	Conce ptual Period	9407	3439/12039 m <sup>2</sup>	5968/20890 m <sup>2</sup>	60	
	Total	9627	3439/12039 m <sup>2</sup>	6188/21690	60	
24	Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details.			No.		

The case was presented by the PP and their consultant wherein it was submitted by the PP that the proposed depth of mining is only 25 meters and with this depth water table intersection is not envisaged. However, committee suggested that if there is any possibility of



GW table intersection, PP will carryout geohydrological studies. It was also observed from Google image that a kachha road and LT line is passing through the lease from the southern side for which PP submitted that necessary 50 meter area is already left as non-mining area and they will develop infrastructure related to mining activity on this area and will also provide right of access of road to the villagers. During presentation it was observed that trees are existing in the lease area for which PP submitted that these trees were planted in the marked green belt and no tree falling is proposed. After presentation, PP was asked to submit following:

1. Commitment that leases area will be demarcated as per the given co-ordinates.
2. Commitment that controlled blasting will be carried out.
3. Commitment that safe distance is left form the electrical line and village road.
4. Inventory of existing trees on the lease area.
5. Commitment that top soil will be simultaneously used for the plantation.
6. Revised plantation scheme as suggested by the committee.
7. Revised CSR & EMP as suggested by the committee with bifurcation in capital cost and recurring cost.

PP vide letter dated 08/12/0217 has submitted the reply of above quarries and the same 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 mining of Dolomite-1,49,994 TPA & Quartz – 8,634 TPA in an area of 7.90 Ha. as per approved mine plan on Khasra no. 327/1, 327/2, 328 at Village- Malhan, Tehsil - Badawara, Dist. Katni (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 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. PP will obtain other necessary clearances/NOC from respective authorities.

**(B) MINING OPERATIONAL PHASE**

8. Controlled blasting should be carried out as per submissions made by the PP during presentation.
9. 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).
10. 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 9627 no's of trees will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
11. Transportation of material shall be done in covered vehicles.
12. Transportation of minerals shall not be carried out through forest area.
13. 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.
14. As proposed, garland drains of 150mx1.0mx1.0m will be developed for rain water management and same shall be connected with two settling tank of 05mx05mx03meters for proper sedimentation and retention. The 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.
15. Regular water spraying should be practiced on 300 meter long 06 meter wide transportation road for dust suppression apart from the haul road and lease area. It shall be ensured that water spraying shall be practiced at least 4 times in a day.
16. The existing and proposed land use plan of the mine is as follows:

Sr.	Heads	At present	At the end of	At
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No.		(ha)	proposal year- (ha.)	Conceptual period (ha.)
1.	Pits (broken area)	0.6597	3.1574	4.4939
2.	Dumps	-	0.5418	1.2039
3.	Road	0.1041	0.1041	0.1041
4.	Green belt	-	0.0800	2.0890
5.	Infrastructure	-	0.0091	0.0091
6.	Others (mineral stack)	-	-	-
Total		0.7638	3.8924	7.9

17. 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.
18. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
19. The commitments made in the public hearing are to be fulfilled by the PP.
20. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
21. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

**(C) ENTIRE LIFE OF THE PROJECT**

22. The proposed EMP cost is Rs. 04.15 lacks and Rs. 03.40 lacks /year are proposed as recurring expenses out of which Rs. 0.55 lacks is proposed for green belt development and Rs. 0.55 lacks /year for recurring expenses for plantation in the proposed EMP of this project.

23. Under CSR activity, Rs. 03.96 lacks are proposed for the next 05 years with recurring cost of Rs. 0.99 lacks/year in different activities and should be implemented through respective committees.
24. 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.
25. 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.
26. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
27. PP will comply with all the commitments made vide letter dated 08/12/2017.
28. 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.

**9. Case No. - 5591/2017 M/s Dhruv Construction, Plot No. A, 21, Swastik Green City, District - Shahdol, MP – 484001 (SIA/MP/MIN/70635/2017) Prior Environment Clearance for Stone Mine in an area of 6.0 Ha.. (1,15,000 cum per annum) (Khasra no. 18/1 (P)) at Village- Dholar, Tehsil - Jaisinghnagar, Dist. Shahdol (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 18/1 (P) at Village- Dholar, Tehsil - Jaisinghnagar, Dist. Shahdol (MP) 6.00 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 vide letter no.- 933, dated: 06/04/17, has reported that there is 01 more mines operating or proposed within 500 meters around the said mine with total area of 07.943 ha including this mine.

In the 298<sup>th</sup> SEAC meeting dated 17-11-17 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 and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The case was again scheduled in this meeting dated 08-12-17 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 giving him last chance and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

**10. Case No. - 5596/2017 M/s Shivam Enterprises, (Sub Lessee of M.P.State Mining Corporation) 6, Vaishali Complex, Zone-2, M.P.Nagar, Bhopal – 462011 (SIA/MP/MIN/706208/17) Prior Environment Clearance for Sand Quarry on Tawa River in an area of 10.555 Ha.. (1,68,880 cum per annum) (Khasra no. 126) at Village-Raipur, Tehsil - Hoshangabad, Dist. Hoshangabad (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. 126 at Village-Raipur, Tehsil - Hoshangabad, Dist. Hoshangabad (MP) 10.555 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. 92 dated: 23/4/16 has reported that there are 04 more mines operating or proposed within 500 meters around the said mine with total area of 52.11 ha including this mine.

SEIAA vide letter no. 1257 dated 05.12.2017 has forwarded the GoI, MOEF&CC, EIA Division letter dtd. 09.11.2017 stating that this project was earlier considered at the 23<sup>rd</sup> meeting of EAC meeting held on 23-24, October 2017 as per direction of Hon'ble NGT order 29.08.2017, the committee was of the view that as the project is B-2 Category and MPSEIAA is now operational the proposal should be transferred to SEIAA for consideration of EC by proposal no. IA/MP/MIN/69594/2017 to appraise the proposal on priority. Further, MPSEIAA has received a letter from Collector Office, Mining Division letter no. 1469, H'bad dtd. 25.11.2017 in which Mining Officer, H'bad mentioned that earlier coordinates of this case mismatch on ground level due to typographical error on given coordinates. After correction they provide revised coordinates for necessary action.

The case was presented by the PP and their consultant wherein PP was asked by the committee to provide the background history of this project. PP & their consultant submitted that the proposed river sand mining project is at Khasra No. 126 in Vill. - Raipur, The & Dist., Hoshangabad. The mining plan has been approved by Director of Geology & Mining, Madhya Pradesh vide letter no. 7016 dated on 04/05/2016. Earlier EC was granted to project proponent in 431th meeting of SEIAA held on 03//03/17. The initial Co-ordinates which were submitted by project proponent before MPSEIAA for grant of EC were as follow.

- A.  $22^{\circ} 47' 38.55''$  N  $77^{\circ} 47' 24.69''$  E
- B.  $22^{\circ} 47' 39.54''$  N  $77^{\circ} 47' 33.88''$  E
- C.  $22^{\circ} 47' 47.65''$  N  $77^{\circ} 47' 37.10''$  E
- D.  $22^{\circ} 47' 50.29''$  N  $77^{\circ} 47' 29.83''$  E

Above submitted Co-ordinates were not up to the mark and in this regard the case came in light of Hon'ble National Green Tribunal, Central Zonal Branch ,Bhopal vide Appeal No. 19/2017 (CZ).

In reply to the Hon'ble NGT, The Mining Corporation submitted the New Co-ordinates, which are as follows,

- A.  $22^{\circ} 47' 41.733''$  N  $77^{\circ} 47' 42.412''$  E
- B.  $22^{\circ} 47' 41.691''$  N  $77^{\circ} 47' 33.495''$  E
- C.  $22^{\circ} 47' 38.440''$  N  $77^{\circ} 47' 31.723''$  E
- D.  $22^{\circ} 47' 35.567''$  N  $77^{\circ} 47' 29.577''$  E
- E.  $22^{\circ} 47' 31.726''$  N  $77^{\circ} 47' 34.446''$  E
- F.  $22^{\circ} 47' 28.332''$  N  $77^{\circ} 47' 34.446''$  E
- G.  $22^{\circ} 47' 34.943''$  N  $77^{\circ} 47' 38.664''$  E

On the basis of the reply submitted by the Mining Corporation and the appeal raised, the Hon'ble NGT directed the project proponent to appeal afresh application before MPSEIAA for the grant of EC.

Since at the time of decision MPSEIAA has not been constituted and was pending before MoEF & CC, it was directed to submit afresh application before MoEF for the grant of EC as early as possible by 15/10/2017. As per the order, project proponent submitted the afresh application before MoEF (Application No. IA/MP/MIN/69594/2017).

The proposal was placed in 23<sup>rd</sup> EAC meeting held on 23-24<sup>th</sup> October 2017 and the KML file submitted by the PP based on new co-ordinates was verified on Google Earth and committee observed that with the new co-ordinates the Shape and Area of the Mining Lease are not matching with the Geo- Reference Map prepared by the Mining Corporation. The

Committee was of the view that the New Co-ordinates need to be re-verified by Mining Corporation.

In this regard, the Mining Corporation re-verified the Co-ordinates of the lease mine and found that there were typographical mistake in Co-ordinates.

Mining Inspector & OIC of the Mining Corporation Ltd. have taken the Co-ordinates again and the Mining Officer, Hoshangabad verified the Co-ordinates. The actual Co-ordinates of our Mine are as follow, (Re- Verified Co-ordinates)

- A. 22<sup>0</sup>47'28.332"N 77<sup>0</sup>47'34.446"E
- B. 22<sup>0</sup>47'31.726"N 77<sup>0</sup>47'26.764"E
- C. 22<sup>0</sup>47'19.696"N 77<sup>0</sup>47'12.470"E
- D. 22<sup>0</sup>47'19.547"N 77<sup>0</sup>47'26.261"E

The committee gone through the documents submitted by the PP and observed that in this case three times co-ordinates were issued and lastly the mining officer, Hoshangabad vide letter no. 1469 dated 25/11/2017 has issued the revised co-ordinates and based on the above co-ordinates issued by the MO, the case is appraised for grant of EC.

During appraisal of the project it was observed by the committee that a stream is flowing through the western side of the lease as per the revised co-ordinates and Google image of May, 2016 and since mid stream naming is not permitted, this area should be kept as non-miming area. PP submitted that in mine plan the volume of sand is considered only for 8.00 ha area (80,000 sq. meter) considering the submergence but the same is not evident from the surface map wherein the river is shown on the eastern side while as per the Google image it is flowing from the western side. Also the evacuation and transportation road is to be provided by PP for which suitable budgetary allocations should be made in the EMP. Thus after presentation, PP was asked to provide following informations:

1. Revised operational production plan avoiding the area occupied by the stream on the western side.
2. Budgetary allocations for transportation route.
3. Revised plantation scheme as suggested by the committee.
4. Revised cost of EMP and CSR as suggested by the committee.

PP has submitted the reply of above query vide letter dated 08/12/2017 which was placed before the committee. Committee perused the revised operation production plan and

observed that that area blocked due to river stream will be 26,050 sq. meter as per the revised operational production plan. As per the revised operational production plan the available mining area is 1,05,550 SQM. Thus deducting 26,050 SQM areas (occupied by river in the lease) from the available area, the remaining minable area will be 79,500 SQM and further area left due to safety zone (7,500 sq. m.) the actual available mining area will be 72,000 sq. meter. Considering the depth of 2.50 meters as per the approved mine plan, the extractable sand from this lease will be only 1,80,000 Cum/year which is also the volume as per the reserve estimated in the mine plan. Since as per mine plan the sanctioned volume of sand is 1,68,880 cum/meter and the same can be evacuated even leaving the area occupied by the river and thus no deduction in sand volume is required in this case. 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 1,68,880 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.
- The lease area should be clearly distinguished and earmarked at the site.
- No diversion of active channel should be allowed for mining.
- No mining shall be carried out in the area occupied by the river on the western side.
- A budgetary provision for Environmental management Plan of Rs. 12.35 lacks (capital) is made with a recurring expenditure of 04.00 Lacks. 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. Under CSR Rs. 03.40 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.

- All the mining activities shall be carryout in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.

**11. Case No. - 5588/2017 M/s S.R.Traders, E-5, Shop No. 12, Metro Plaza, Bittan Market, Bhopal, MP (SIA/MP/MIN/70363/17) Prior Environment Clearance for Sand Mine on Ken River in an area of 14.0 Ha.. (3,30,000 cum per annum) (Khasra no. 396/2) at Village- Mawaighat, Tehsil - Gorihar, Dist. Chhatarpur (MP).**

This is case of Sand Mining. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 396/2) at Village- Mawaighat, Tehsil - Gorihar, Dist. Chhatarpur (MP) 14.0 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. 1234 dated: 03/5/17 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant wherein following submissions were made by the PP:

1. Name of the project & its location:	<p><b>Name of the Project:</b> Mawaighat Sand Mine on Ken river.</p> <p><b>Location:</b> Khasra No: 396/2 Village: Mawaighat Tehsil: Gorihar District: Chhatarpur State: Madhya Pradesh</p>
2. Name of the Company, Address Tele No. & E-mail :	<p><b>S.R. Traders</b> Authorised Signatory: Shri Atul Gondal E-5 Shop No-12, Metro Plaza Bittan Market, Bhopal, (M.P.) India</p>

	<b>E-mail Id:</b> sainikfoodsprivatelimited@gmail.com					
3. Latitude and Longitude of the project	<b>Point</b>	<b>Latitude</b>		<b>Longitude</b>		
	A	25°18'59.20"N		80°19'09.20"E		
	B	25°19'22.61"N		80°19'06.79"E		
	C	25°19'22.93"N		80°19'10.56"E		
	D	25°19'33.50"N		80°19'11.80"E		
	E	25°19'34.30"N		80°19'14.70"E		
	F	25°18'59.50"N		80°19'12.80"E		
4. If a Joint venture, the names & addresses of the JV partners including their share	N.A.					
5. Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.	<b>New Proposal</b>					
	<b>Mine Lease Area:</b> 14.00 ha					
	<b>Land Use Pattern:</b>					
	<b>*All the areas are given in Hectares</b>	<b>Forest Land</b>	<b>Pvt. Ag. Land</b>	<b>Raiyati Land</b>	<b>Govt. Land</b>	<b>Total (Ha)</b>
	Non Utilized	-	-	-	14.00	14.00
	Total	-	-	-	<b>14.00</b>	<b>14.00</b>
	<b>Connectivity:</b>					
NH-75			74 km	SSW		
SH-49			34 km	S		
Singhpur Dumra Railway Station			33 km	W		
Raja Bhoj Airport, Bhopal			369 km	SW		
6. Whether the project is in the Critically Polluted Area (CPA):	No the project is not in the Critically Polluted Area.					
7. Cost of the project :	25 lakhs					
8. Employment	<b>Designation</b>			<b>No. of Employees</b>		

generated/to generated	Supervisory staff	1
	Part time mining engineer	1
	Permit Manager	1
	Mining Mate	1
	Time keeper / store keeper cum first aider	1
	Mali / Watchman / Pump operator	1
	Skilled	1
	Semi-skilled	2
	Unskilled	25
	<b>Total</b>	<b>34</b>
9. Benefits of the project:	<p>The project is of utmost importance to the area/ region for further prevent widening of the river bed due to the deposition of sediments which if not mined out will result in rising of the river bed causing flooding, damage to the adjoining areas, destruction of life and property. It provides interest of mineral development and shall greatly contribute to improve the socio-economic conditions of the local habitants. The operation of the proposed project will bestow various social and economic benefits to the local communities of the area in addition to providing better employment opportunities helping them earn livelihood. The mining project shall improve social infrastructure of the area, apart from increased financial benefits accruing to state and central agencies by ways of taxes, royalties, cesses etc.</p>	
11. If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006. 1	N.A.	
12. If expansion, please indicate the number and date of the certified	N.A.	

Compliance Report of Regional Office of the MoEF	
13. No. and Date of the ToR /and revised ToR, if any, letter issued by the authority	N.A.
14. No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent)	N.A.
15. If the project was considered in EAC, Pl. gives dates of the meeting (s).	N.A.
16. Type of Mine: (Open cast/Underground/mixed ):	Open Cast
17. Capacity of the mine applied for	Total Production 3,30,000m <sup>3</sup> /yr (revised production: 1,65,000 m <sup>3</sup> /yr)
18. ML Area i. As per block allotment ii. As per approved mine plan	14.00 hectare
19. Date of approval of mine plan, mine closure plan, status & date	23.08.17
20. Date of Board's approval:	
21. Date of Ground	Not Applicable

water clearance:			
22. Date of mine closure approval			
23. Cost of proposed EMP and CSR with detailed components & proposed activities.	<b>CSR Budget:</b>		
	<b>Sl. No.</b>	<b>Activity</b>	<b>Fund Allotted (In Rs.)</b>
	1	Promotion of Swachh Bharat Abhiyan	25000
	2	Promotion of Digital India Programme	15000
	3	Skill development of village women	35000
	4	Skill development of farmers	60000
	5	Promotion of saving of conventional energy resources	15000
	6	Promotion of clean energy	60000
	7	Hygiene and health	40000
		<b>Total</b>	<b>2,50,000</b>
<b>EMP Cost:</b>			
<b>Sl. No.</b>	<b>Measures</b>	<b>Description of work</b>	<b>Annual recurring cost (in Rs.) / Proposed</b>
1	Water @ 50	Water sprinkling will	50,000

		Rs/Tanker & 5 Trip /Day (Capacity 3000 Litre)	be done on unpaved roads from where trucks carry sand during mining twice a day.		
	2	Road Maintenance	Maximum road length 750m, considering maintenance 300 Rs/sq.m.	Capital Cost 11,25,000	2,00,000
	3	Pollution Monitoring	No of Proposed Stations	Frequency	
	i)	Air Quality a) Monitoring in the vicinity of Mine b) Monitoring in the vicinity of Transportation network	Two (One in windward and other in Leeward direction of the wind)	Twice in a year for 24 hours sampling	70,000
	ii)	Water quality Water Quality of surface and Ground water around the site	Two (One in Upstream and One in down stream)	Twice in a year	30,000
	iii)	Ambient Noise level	Two (One	Twice in	25,000

			in core zone and One in buffer zone)	a year	
	3	Occupational Health(@1000/Miners )	To provide medical facility at the site to the employees		34,000
	4	Green Belt (500 Rs per plant)	225 plants along approach road and 581 plants along river bank during the lease period in phases		4,03,000
	Total			11,25,000	8,12,000
24. Numbers of plantation proposed & area allocated for plantation with budgetary provisions.	161 plants per year will be planted. Total estimated Cost for plantation will be Rs. 4,03,000.				
25. Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details.	Ken river (onsite).				

During the presentation it was observed by the committee that as per the Google image of May, 2017 it was noticed by the committee that the lease area is >50% submerged in water and since the mid stream mining is not allowed PP was asked to submit recent photographs of the lease area clearly showing area available for sand evacuation with statement of mining officer about submergence of area in water and area available for mining. After presentation PP was asked to provide following:

1. Recent photographs of the lease area clearly showing area available for sand evacuation with statement of mining officer about submergence of area in water and area available for mining.
2. Revised operational production plan as per the above information.
3. Evacuation route marked on Google map.
4. CSR cost with bifurcation in capital and recurring cost.

**12. Case No. - 5589/2017 M/s Sainik Foods Pvt. Ltd, HIG-5, Deendayal Nagar, Phase-1, Kanth Road, Muradabad, UP (SIA/MP/MIN/70353/17) Prior Environment Clearance for Sand Mine on Ken River in an area of 12.30 Ha. (3,69,000 cum per annum) (Khasra no. 730) at Village- Banjari, Tehsil - Chandla, Dist. Chhatarpur (MP)**

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 730) at Village- Banjari, Tehsil - Chandla, Dist. Chhatarpur (MP) 12.30 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. 1302, dated: 15/5/17 has reported that there are 01 more mine operating or proposed within 500 meters around the said mine with total area of 24.9 ha including this mine.

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

1. Name of the project & its location:	<p><b>Name of the Project:</b> Banjari Sand Mine on Ken river.</p> <p><b>Location:</b> Khasra No: 730 Village: Banjari</p>
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	Tehsil: Chandla District: Chhatarpur State: Madhya Pradesh					
2. Name of the Company, Address Tele No. & E-mail :	<b>Sainik Foods Pvt. Ltd.</b> Authorised Signatory: Shri Narayan Prasad Pandey HIG-5 Deendayal Nagar, Phase-1, Kanth Road, Muradabad , Uttar Pradesh- 244001, India <b>E-mail Id:</b> sainikfoodsprivatelimited@gmail.com					
3. Latitude and Longitude of the project	<b>Point</b>	<b>Latitude</b>		<b>Longitude</b>		
	A	24°59'32.55"N		80°13'12.91"E		
	B	24°59'34.00"N		80°13'09.40"E		
	C	24°59'39.53"N		80°13'15.95"E		
	D	24°59'59.28"N		80°13'34.81"E		
	E	24°59'53.78"N		80°13'36.45"E		
	F	24°59'45.78"N		80°13'28.64"E		
4. If a Joint venture, the names & addresses of the JV partners including their share	N.A.					
5. Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.	<b>New Proposal</b> <b>Mine Lease Area:</b> 12.30 ha <b>Land Use Pattern:</b>					
	<b>*All the areas are given in Hectares</b>	<b>Forest Land</b>	<b>Pvt. Ag. Land</b>	<b>Raiyati Land</b>	<b>Govt. Land</b>	<b>Total (Ha)</b>
	Non Utilized	-	-	-	12.30	12.30
	Total	-	-	-	<b>12.30</b>	<b>12.30</b>
	<b>Connectivity:</b>					
NH-75			32 km		SSW	

	SH-49	9.5 km	SE
	Mahoba - Khajuraho Railway Line	33 km	W
	Raja Bhoj Airport, Bhopal	349 km	SW
6. Whether the project is in the Critically Polluted Area (CPA):	No the project is not in the Critically Polluted Area.		
7. Cost of the project :	30 lakhs		
8. Employment generated/to be generated	<b>Designation</b>	<b>No. of Employees</b>	
	Supervisory staff	1	
	Part time mining engineer	1	
	Permit Manager	1	
	Mining Mate	1	
	Time keeper / store keeper cum first aider	1	
	Mali / Watchman / Pump operator	1	
	Skilled	1	
	Semi-skilled	2	
	Unskilled	38	
	<b>Total</b>	<b>47</b>	
9. Benefits of the project:	<p>The project is of utmost importance to the area/ region for further prevent widening of the river bed due to the deposition of sediments which if not mined out will result in rising of the river bed causing flooding, damage to the adjoining areas, destruction of life and property. It provides interest of mineral development and shall greatly contribute to improve the socio-economic conditions of the local habitants. The operation of the proposed project will bestow various social and economic benefits to the local communities of the area in addition to providing better employment opportunities helping them earn livelihood. The mining project shall improve social infrastructure of the area, apart from increased financial benefits accruing to state and</p>		

	central agencies by ways of taxes, royalties, cesses etc.
11. If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006. 1	N.A.
12. If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEF	N.A.
13. No. and Date of the ToR /and revised ToR, if any, letter issued by the authority	N.A.
14. No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent)	N.A.
15. If the project was considered in EAC, Pl. gives dates of the meeting (s).	N.A.
16. Type of Mine: (Open cast/Underground/mixed):	Open Cast
17. Capacity of the mine applied for	Total Production 3,69,000m <sup>3</sup> /yr (revised production: 1,47,600 m <sup>3</sup> /yr)

18. ML Area i. As per block allotment ii. As per approved mine plan	12.30 hectare		
19. Date of approval of mine plan, mine closure plan, status & date	23.08.17		
20. Date of Board's approval:			
21. Date of Ground water clearance:	Not Applicable		
22. Date of mine closure approval			
23. Cost of proposed EMP and CSR with detailed components & proposed activities.	<b>CSR Budget:</b>		
	<b>Sl. No.</b>	<b>Activity</b>	<b>Fund Allotted (In Rs.)</b>
	1	Promotion of Swachh Bharat Abhiyan	30000
	2	Promotion of Digital India Programme	15000
	3	Skill development of village women	40000
	4	Skill development of farmers	60000
	5	Promotion of saving of conventional energy resources	15000
	6	Promotion of clean energy	70000
7	Hygiene and health	40000	

		<b>Total</b>		<b>2,70,000</b>
<b>EMP Cost:</b>				
<b>Sl. No</b>	<b>Measures</b>	<b>Description of work</b>		<b>Annual recurring cost (in Rs.) / Proposed</b>
1	Water @ 50 Rs/Tanker & 5 Trip /Day (Capacity 3000 Litre)	Water sprinkling will be done on unpaved roads from where trucks carry sand during mining twice a day.		80,000
2	Road Maintenance	Maximum road length 470 m, considering maintenance 300 Rs/sq.m.	Capital Cost 10,57,500	2,00,000
3	Pollution Monitoring	No of Proposed Stations	Frequency	
i)	Air Quality c) Monitoring in the vicinity of Mine d) Monitoring in the vicinity of Transportation network	Two (One in windward and other in Leeward direction of the wind)	Twice in a year for 24 hours sampling	70,000

	ii)	Water quality Water Quality of surface and Ground water around the site	Two (One in Upstream and One in downstream )	Twice in a year  30,000
	iii)	Ambient Noise level	Two (One in core zone and One in buffer zone)	Twice in a year  25,000
	3	Occupational Health(@1000/Miner s)	To provide medical facility at the site to the employees	  47,000
	4	Green Belt (500 Rs per plant)	235 plants along approach road and 540 plants along river bank during the lease period in phases	  3,87,500
	Total			10,57,500 8,39,500
24. Numbers of plantation proposed & area allocated for plantation with budgetary provisions.	155 plants per year will be planted. Total estimated Cost for plantation will be Rs. 3,87,500			
25. Any river/Nallha flowing near or adjacent	Ken river (onsite).			

to the proposed mine. If yes, please give details.	
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During the presentation it was observed by the committee that as per the Google image of November, 2016 it was noticed by the committee that the lease area is >60% submerged in water and since the mid stream mining is not allowed PP was asked to submit recent photographs of the lease area clearly showing area available for sand evacuation with statement of mining officer about submergence of area in water and area available for mining. After presentation PP was asked to provide following:

1. Recent photographs of the lease area clearly showing area available for sand evacuation with statement of mining officer about submergence of area in water and area available for mining.
2. Revised operational production plan as per the above information.
3. Evacuation route marked on Google map.
4. CSR cost with bifurcation in capital and recurring cost.

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

**13. Case No. – 2931/2015 Shri Raj Kumar Nema, OIC, Sub Off., M.P. State Mining Corporation Ltd., H.No. 12 Ward No. 17, Sainath Colony, Meenakshi, Hoshangabad (M.P.)-461001. Divlakhedi River Sand Mine Lease Area - 12.145 Ha., Capacity - 1,10,000 cum/year, at Khasra no.-60, Vill.- Divlakhedi, Teh.-Hoshangabad, District-Hoshangabad (M.P.)**

This is case of Divlakhedi Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is at Khasra no.-60, Vill. - Divlakhedi, Teh.-Hoshangabad, District- Hoshangabad (M.P.) 12.145 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.197, dated: -19/2/16, has reported that there are 07 more mines operating or proposed within 1000 meters around the said mine with total area of -235.609 ha including this mine.

The case was earlier discussed in the 213<sup>th</sup> SEAC meeting dated 08/08/2015 wherein it was observed that beside this a lease area of 116.760 Ha is adjoining to this cluster which is yet not allocated for sand mining to the contractors. Thus committee suggested the PP to apply for EC incorporating all the proposed projects however, applications for each project shall be made separately. It was decided by the committee to return the case to SEIAA. The mining Plan and the EMP for each of the projects in the cluster should address the points suggested by the committee in other sand mining projects.

SEIAA vide their letter no. 389/SEIAA/16 dated 02/04/2016 have forwarded the documents submitted by PP vide inward letter no. 4006 dated 30/03/16 and 3915 dated 22/03/2016 with revised MO certificate of 500 meters and replenishment plan of the above lease.

The case was presented by the PP and their consultant in the 17<sup>th</sup> SEAC II meeting dated 06/04/2016 wherein it was observed that Mining Officer vide their letter no. 3975 dated 21/03/2016 has submitted that there are no mines sanctioned within 500 meters and thus as revised per mining officer this mine becomes non-cluster mine. The 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 1,10,000 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.

PP vide letter dated 29/6/17 has submitted a representation in SEIAA that he has been granted EC for production capacity of 1,10,000 cum/Year. PP has requested to increase production capacity 1,20,000 cum/Year based on revised Form-1 and Mining Plan and the same was forwarded to SEAC by the SEIAA vide letter no. 1164 dated 17/11/2017 for comments.

The case was placed before the meeting wherein it was observed by the committee on perusal of case file that PP himself has made the presentation for the sand volume of 1,10,000 cum/year before the committee and hence the same quantity was considered by the SEAC for grant of EC. The committee after deliberations decided that above clarification may be sent to SEIAA for onward necessary action.

**14. Case No. – 2839/2015 Shri Nagendra Singh, OIC, M.P. State Mining Corporation Ltd., Civil Line, Tikamgarh (MP)-472001. Sand Quarry Lease Area- 5.850 ha. Capacity - 1,00,000 cum/year, at Khasra No. – 665, Vill.-Karoula, Teh.-Palera, District-Tikamgarh (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. – 665, Vill.-Karoula, Teh.-Palera, District-Tikamgarh (MP) 5.850 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. 1259 dated: 01/12/15, has reported that there is no more mine operating or proposed within 500 meters around the said mine.

The case was earlier presented by the PP and their consultant in the 17<sup>th</sup> SEAC meeting dated 06/04/2016 wherein it is recorded that;

*“during presentation it was observed as per Google image of April, 2014 and February, 2012 that entire lease area is submerged in the water and also the site is located on the upstream of a dam. The Google image submitted by the PP and their consultant along with the presentation was very old and was off June, 2004. The committee also instructed the consultant & PP to always attach recent available Google image with the presentation in the future for realistic assessment of the site. The committee after deliberations decided that since entire lease area is submerged in water as per the Google image of April, 2014 (summer season) the grant of Environmental Clearance is not recommended for this QL for the above mentioned reasons”.*

SEIAA vide letter no. 2383/SEIAA/16 dated 05/07/2016 has sent back the file to SEAC stating that *“PP has submitted the recent photographs of the site. The case may be sent to SEAC along with the site photographs for re-appraisal”.*

The case was presented by the PP and their consultant. During discussion it was observed by the committee that the photographs (dated 29/04/2016) submitted by the PP reflect that most parts of the lease is stony and also having vegetation (shrubs). Very thin volume of sand could be observed in one photograph submitted by the PP. The committee after deliberations decided to carryout site visit of this lease after rainy season by a sub-committee for further decision in this case.

As per above decision, the site inspection was carried out by a subcommittee of SEAC on dated 02/04/2017 and the inspection report of the committee is as follows:

## **BACKGROUND**

The case was earlier presented by the PP and their consultant in the 17<sup>th</sup> SEAC meeting dated 06/04/2016 wherein it was observed that as per Google image of April, 2014 and

February, 2012 that entire lease area is submerged in the water and also the site is located on the upstream of a dam. The Google image submitted by the PP and their consultant along with the presentation was very old and was off June, 2004. The committee also instructed the consultant & PP to always attach recent available Google image with the presentation in the future for realistic assessment of the site. The committee after deliberations decided that since entire lease area is submerged in water as per the Google image of April, 2014 (summer season) the grant of Environmental Clearance is not recommended for this QL for the above mentioned reasons”.

SEIAA vide letter no. 2383/SEIAA/16 dated 05/07/2016 has sent back the file to SEAC stating that *“PP has submitted the recent photographs of the site. The case may be sent to SEAC along with the site photographs for re-appraisal”*.

The case was again discussed in the 40<sup>th</sup> SEAC II dated 25/07/16 wherein during discussion it was observed by the committee that the photographs (dated 29/04/2016) submitted by the PP reflect that most parts of the lease is stony and also having vegetation (shrubs). Very thin volume of sand could be observed in one photograph submitted by the PP. The committee after deliberations decided to carryout site visit of this lease after rainy season by a sub-committee for further decision in this case.

### **PROJECT DETAILS**

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. – 665, Vill.-Karoula, Teh.-Palera, District-Tikamgarh (MP) 5.850 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. 1259 dated: 01/12/15, has reported that there is no more mine operating or proposed within 500 meters around the said mine.

As decided, Dr. Navin Chandra, Chairman SEAC and Shri. Mohd. Akram Khan, Member SEAC visited the site on 02/04/2017. During inspection, Dr. Abhaya K. Saxena, Sr. Scientific Officer, MP Pollution Control Board, Bhopal, Shri Amit Mishra, Mining Officer (M-7415140087) and Shri Ajim Khan, (M-9993409399) MPSMC, were also present.

The site is located near village Karoula on Dhasan River. The site is approached by a kachha road (approx. 04 kms) and connected by a tar road to village Palera on one side and village Nawgaon on other side. The Kachha road is connected up to the lease area. During site inspection it was observed that the lease is on the western bank of the river and stagnant water is on the eastern side of the river bank but covering some part of the lease area. A dam is also in existence which is approx. 12.00 Kms away from the lease and the lease is on the upstream of the dam. It was also observed during site visit that approx. 50 % of the lease area is minable where sand is available and the remaining area is rocky having sand in patches and river water. During inspection at one or two places by pit method the depth of the sand was observed from 2.00 meters to 2.5 meters. The mining officer present during inspection also informed that the sand can be evacuated from this lease after rainy season from November or December every year when water recedes down from the banks and lease area becomes dry. The committee after discussion decided that since during site inspection only 50% of the area (2.925 ha) was minable having sand without river water, same should be considered for the mining and as per mine plan the approved depth is 2.5 meters thus volume of sand recommended for EC is 73,215 cum/year. The photographs taken during site visit are appended for ready references.

The site inspection report was discussed in the 71<sup>st</sup> committee meeting dated 10/04/2017 and committee after deliberation decided that the quantity may be revised as per the recommendations of the committee and case may be recommended for grant of EC as the other submissions made by PP were found satisfactory and acceptable subject to the following special conditions in addition to the standard conditions at annexure 'B':

1. Production of Sand as per mine plan with quantity not exceeding 73,215 cum/year.
2. 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.
3. Evacuation of sand should not be allowed through the roads passing through the villages.
4. Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
5. If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
6. The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
7. No diversion of active channel should be allowed for mining.

PP vide letter dated 29/6/17 has submitted a representation in SEIAA that he has been granted EC for production capacity of 73,215 cum/Year. PP has requested to increase production capacity 1,15,694 cum/Year based on revised Form-1 and Mining Plan and the same was forwarded to SEAC by the SEIAA vide letter no. 1166 dated 17/11/2017 for comments.

The case was placed before the meeting wherein it was observed by the committee on perusal of case file that PP himself has made the presentation for the sand volume of 1,00,000 cum/year before the committee. It was also observed by the committee that in the minutes of 71<sup>st</sup> SEAC-II meeting dated 10-04-17 reason for the reduction in sand quantity was justified hence no further action is required in this case. The committee after deliberations decided that above clarification may be sent to SEIAA for onward necessary action.

**(Mohd. Akram Khan)**  
Member

**(Dr. A.K. Sharma)**  
Member

**(Dr. J. P. Shukla)**  
Member

**(Dr. Sonal Mehta)**  
Member

**(Prashant Shrivastava)**  
Member

**(Dr. R. Chaudhary)**  
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/Murrum 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 tarpoline 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.