

**SECOND STATE EXPERT APPRAISAL COMMITTEE-2 (MINING)**  
**MINUTES OF THE 77<sup>th</sup> MEETING 24/05/17**

The 77<sup>th</sup> meeting of the Second State Expert Appraisal Committee (SEAC-II) for mining projects was held on 24<sup>th</sup> May, 2017 under the Chairmanship of Dr. Navin Chandra for discussion on the query responses submitted by the PP and the projects issues received from SEIAA. The following members attended the meeting-

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

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

1. **Case No.4305/15 Shri I. Patric Dhanraj HIRA POWER AND STEELS LTD.Unit-1, Plot No.-557, 563, & 564 Urla Industrial Complex, Raipur-492003 (Chhattisgarh).Prior Environment Clearance for approval of Manganese Ore Mine in an area of 40.47 ha. (36,000 cum/year) at Khasra no.-37/5,Village-Ghondi, Tehsil-Paraswara (Baihar), District-Balaghat (MP) (EIA Consultant: M/s Cognizance Research India Private Limited, Noida ).**

This is case of Manganese Ore Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra no.-37/5, Village-Ghondi, Tehsil-Paraswara (Baihar), District-Balaghat (MP) 40.47 ha. The project requires prior EC before commencement of any activity at site.

**1. PROJECT DETAILS**

- |    |                                      |   |   |
|----|--------------------------------------|---|---|
| 1. | Name of the project                  | - | Ghondi Manganese Ore Mine   |
|    |                                      |   | Location - Village - Ghondi, Tehsil - Paraswara, Dist. - Balaghat (M.P.)  |
| 2. | Name of the PP and Address           | - | I Patric Dhanaraaj<br>Om Kutir', Opp. Saggar Nursing Home, Civil Lines,<br>Raipur, C.G.-492001  |
| 3. | Bounding Co-ordinates of the project | - | Latitude - 21 <sup>o</sup> 56'25.43" to 21 <sup>o</sup> 57'02.43"N<br>Longitude - 80 <sup>o</sup> 25'32.11" to 80 <sup>o</sup> 25'59.97"E |
| 4. | Cost of the project                  | - | 2.15 Crore  |
| 5. | Whether new or expansion project     | - | New   |
| 6. | Type of Mine                         | - | Opencast & Underground  |
| 7. | Capacity of the mine applied for     | - | 36000 TPA   |

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8. Khasra No./ML Area – Khasra no. – 37/5, ML area – 40.47 Ha.
9. Mineral Reserves – Proved Mineral Reserve – 3,02,000 T Mineable Mineral Reserve – 2,38,500 T
10. Status of Grant of ML– Mining Lease was granted by M.P. Govt. Mineral Resource Department
11. Existing Land Use – Govt. revenue land – 40.47 Ha.

**II. Salient Features of Project –**

Topography	The area in general is a territory in northern part and hilly in southern part having gentle slopes toward eastern direction. The maximum RL is 666 m on the southwestern side and lowest is about 612 m on the southeast part of the area.		
Nearest Habitation/ Town	Ghondi village – 1.2 km. towards almost South		
Nearest Airport	Nagpur 224 km. SW		
Nearest Railway Station	Balaghat 40 km. SW		
Nearest Highway	State Highway – 26, about 1.0 km. North		
Nearest tourist places	None within 10 km study area		
Defense installations	None within 10 km study area		
Archeological features	None within 10 km study area		
Ecological sensitive zone	None within 10 km study area		
Nearest Streams/rivers/water bodies (from mine boundary)	<b>S.No.</b>	<b>Watercourses (Seasonal)</b>	<b>Aerial Distance &amp; Direction</b>
	1	Amanala	1.5 km SW
	2	Nahra Nala	0.5 km West
	3	Malwara Nala	1.1 km S
Nearest Forest areas	RF 1802* Baihar Forest Range Amatola P Sarekha RF	Adjoining West, South & East 10 km. NNE 8.0 km. S 8.0 km. W	
	*Permission from State level Forest Committee has been obtained.		
Opencast Mining	The mining will be carried out by opencast mechanized method consists of following operations:		

	1) OB material will be removed by excavator and dumper combination to dump sites and for construction of haulage roads.		
	2) Drilling will be carried out by 32 – 80 mm dia hole by jack hammers/wagon drill and blasting will be carried out using explosive.		
	4) Excavation and loading of manganese ore into small dumpers / trolleys and transport to storage yard for further processing.		
	<b>Broad blasting parameter for open cast working</b>		
	Spacing	3 m	
	Burden	2 m	
	Depth of hole	2.90m	
Powder Factor (t/kg)	6 to 7 t./kg		
Dia of hole	80 mm		

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Underground Mining	<p>The underground mining will be started from fifth year onwards. Inclined winzes at horizontal levels will be developed for block preparation for stoping. Inclines will be used as an approach to the underground working for haulage mined out material at different levels on the foot wall side. The underground access will be made from Inclines and haulage will be installed at the surface level. Transportation of ore produced from the underground will be carried out through the haulage.</p> <p>After 30 m of horizontal development, 2 consecutive levels will be connected with an incline / raise, for formation of a block. After completion of blocks, stoping will be carried out accordingly.</p> <p>For block support, rock bolt of 1.5 m length, 20 mm dia will be used on one m grid pattern. Additional support will be installed if safety consideration demands. Spades and manganese pans will be used to load the muck into mine cars. The mine cars will be hoisted to surface and trammed to a bin on the surface. From the bin, ore is loaded by chute into a truck which will be transported to the sorting yards. The void areas after extraction of ore will be filled by generated waste material.</p>	
	<b>Broad blasting parameter for underground working</b>	
	Drilling pattern in ore	Spacing x burden x depth = 0.60 x 0.40 m x 1.0 m
	Drilling pattern in Rock	Spacing x burden x depth = 0.60 x 0.40 m x 1.0 m
	Drilling pattern in Stopes	Spacing x burden x depth = 0.60 x 0.40 m x 1.0 m
	Maximum number of holes blasted in a round	11 Nos.
	Charge per round (kg)	1.12 kg
	Charge per hole (kg)	1.12 kg
	Type of explosive	Superpower gelatin and electric delay detonator
	Powder Factor (Actual) for development of level- After stoping -	2 tonnes /kg 5 tonnes /kg

Land use break up	Description	Area in Hectares			
			Present	Additional area required during this plan period	End of the 5 year
1	Area under Pits	0.943	8.24	8.00	14.40
2	Area under roads	0.280	0.20	0.48	0.48

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	3	Area under office infrastructure	Nil	0.64	0.64	0.64
	4	Area under top soil Dump	Nil	3.20	3.20	4.22
	5	Area under C & S plant / Storage	Nil	0.50	0.50	0.50
	6	Area under Waste Dump	Nil	8.66	8.66	12.00
	7	Area under subgrade / reject Dump	Nil	0.10	0.10	0.10
	8	Area under Plantation	Nil	1.00	1.00	3.00
	9	Proposed Area for U/G Mining	Nil	1.00	1.00	5.13
		<b>Total</b>	<b>1.223</b>	<b>23.30</b>	<b>24.523</b>	<b>40.47</b>

The case was presented by the PP in the 05<sup>th</sup> SEAC II meeting dated 17/02/2016. It's being 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. 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.
4. Any alternate route avoiding the nearby habitations.
5. Ambient Air Quality and Noise Monitoring should be carried out atleast at 10 locations wherein 06 locations should be in surrounding villages, two at transportation road and 02 in core zone.
6. Similarly, Water Quality Monitoring should also be carried out atleast at 10 locations wherein 06 locations should be in surrounding villages, one each at Hudda Talab, Tantatola talab and existing nearby stream and 01 in core zone.

PP has submitted the EIA report on dated 15/02/2017 which was forwarded by the SEIAA vide

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letter no. 5294/SEIAA/17 dated 16/02/2017.

The case was presented by the PP and their consultant in 68<sup>th</sup> SEAC-II meeting dated-06/03/2017 wherein PP informed that this lease was sanctioned in the year 1998 and both operations opencast and underground are proposed in phased manner. Initially open case mining operations will be taken up and later on as the open case operations becomes uneconomical underground operations will be deployed. During presentation PP informed that they have submitted the revised mine plan duly approved by the competent authority IBM, Jabalpur vide letter no. BGT/MN/MPLN-657/NGP/2015/2567 dated 17/08/2016 for 30,000 TPA capacity. The total life of mine is 14 years with 30,000 TPA productions.

During presentation it was observed by the committee that very substandard EIA is prepared by the consultant and there are several mistakes in it and numerous relevant information as per standard TOR issued by the MoEF&CC and related to underground mining operations are not properly addressed. Committee after deliberations decide that Secretary, SEAC may be requested to take-up the issue of such substandard EIA prepared by the consultant M/s Cognizance Research India Private Limited, Noida through NABET (Quality Council of India) after giving him an opportunity for explanation. After presentation, PP was asked to submit revised EIA considering following issues:

1. PP has not submitted the details of previous year's production. Thus PP was asked to submit production details since 1998 till date or an affidavit stating that no production is carried out since 1998.
2. The TOR was approved for 36,000 cum/year and the revised mine plan is approved for the production capacity of 30,000 TPA but in EIA report the production capacity is differently mentioned as 5,00,000 TPA (p/101) or 19,000 TPA (table 2.24) which needs correction and authentic value.
3. Similarly, the OB as per the approved mine plan is 8,66,330 cubic meter (p/30) while in EIA report it is wrongly mentioned as 2,66,336 cubic meter (p/31 & 37) which also needs correction.
4. In EIA report table 1.1, "Salient features of the project site", details of important environmental features have not been mentioned. A lake is in close proximity (within 500 meters) but details are missing in EIA report. Thus details of all sensitive features should be mentioned in this section
5. In EIA point no. 2.7.2, it is mentioned that no electricity is required during mining operations. (p/48) Please justify how o/c and u/g mining operation will be carryout without electricity.

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6. In EIA report table 2.2, (p/26) “Seismicity”, Seismic zone-II is mentioned. However, in another table at 3.5.7 (p/57) “Seismic zone-III” is mentioned which is classified as “Moderate Damage Risk Zone”. Since this lease involve both the operations of open cast and underground mining this information is very important for evaluation of the project. Thus actual “Seismicity Details” should be mentioned in the revised EIA report.
7. In EIA report figure 3.10 (p/64), “On site wind rose”, it is shown that the predominant wind direction is from SW to NE but in the text it is mentioned as NW to SE which is not corresponding to the wind rose and raise a doubt about the data which is used for the input of the modeling. Thus in the revise EIA report correct wind pattern should be provided with all the values used as input data for modeling.
8. Similarly, in the Isopleths (p/105) it is not clear that which type of emission source is considered for modeling such as “open pit source” or “Line Source”. Thus in the revise EIA report necessary clarification should be provided.
9. In EIA report table 4.14 (p/107-108), “Increase in traffic due to the proposed project”, it is shown that 94 cars and 66 buses trips have been considered for assessing the impact due to traffic. Thus in the revise EIA report necessary clarification should be provided how 94 cars and 66 bus trips are envisaged.
10. Similarly, at page no 108 in “Meteorological data” it is reported that maximum emission load is due to morning office, college time and evening time. As such considering the remote location of project, PP should proved number and list of collages and offices located in the area that contributing emission load in the revised EIA report.
11. Headings of table 3-16 “Ground Warder Results” are unreadable. Should be properly reproduced in the revised EIA report.
12. In EIA report 2.6.4 “Drinking Water Management” 9.00 KL requirement of water is predicted. However, water required for dust suppression and plantation is not assessed and reported in the EIA report which should be provided in the revised EIA report.
13. Details of proposed garland drains and settling tanks are missing in the EIA report which should be provided in the revised EIA report with their numbers, size and dimensions on surface map.
14. Following details/information are not provided in the EIA report as per the issued TOR which should be submitted with the revised EIA report :

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- a. DFO certificate regarding distance from National Park/ Century and Eco-Sensitive Zone of 10 Kms distance.
  - b. Inventory of all proposed and existing mines within 2.00 Kms radius.
  - c. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
15. Following details/information are not provided in the EIA report related to underground mining which should be submitted with the revised EIA report :
- a. Entry in underground mining is proposed from the open cast mine pit and thus there is possibility of entering accumulated rain water in the underground mine. Thus PP should provide details of safety measures proposed as per DGMS norms to avoid such situation.
  - b. Being underground mine, subsidence study should be carried out.
  - c. Details inventory of 1473 plants which will be uprooted during the execution of the project.
  - d. As ground water table intersection is proposed, PP should submit hydro-geological study report.
  - e. For underground mining operations details of proposed standard illumination as per DGMS norms should be provided.
  - f. For underground mining operations details of proposed ventilation system such as capacity of fan, Veq ratio, quantity of intake air and exhaust air etc shall be discussed in detail in revised EIA along with layout as per DGMS norms.
  - g. VTC plan as per DGMS norms should also be detailed out in the EIA report.
  - h. Details of roof support system, back of excavation wall, hanging wall and freshly exposed wall (type of rods/cable bolt, their length, diameter etc) with load bearing capacity should be provided.
  - i. Detailed proposal of sand stowing should also be provided. PP should also explore the possibility of using other wastes for sand stowing after confirming its suitability by leachates study.
  - j. Details proposal for conducting blast vibration study should be submitted.
  - k. For management of mine water in underground operations proposal for underground sumps with their dimensions along with details about water pumps of suitable capacity along with pumping layout shall be submitted.
16. Being the case of underground mining, following maps/details should also be provided

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with the revised EIA report:

- a. Mine ventilation plan with intake and return air location in drawing with details such as air pressure, fan etc.
- b. Mine working plan with both existing and proposed mining.
- c. Mine surface plan with all surface feature as per DGMS rules such as HT line, surface water body, existing OB storage area etc with proper indexing.
- d. Underground layout with layout for Pumping, Underground sump, Illumination, Roof support system and Vertical section (Lithology & working seam).
- e. Precaution against fire, water, blasting, rescue plan/emergency plan with section and layout, gas, dust (underground dust survey plan and report, personal dust sampling), water (HFL of surface water body, sump capacity to be provide considering worst case scenario approx such as 48 hours power failure.)
- f. Mechanism with pollution control measures proposed for transportation of mineral from underground to surface and from surface to end use.

PP has submitted the revised EIA report vide letter dated 28/04/2017 which was forwarded by the SEIAA vide letter no. 323/SEIAA/17 dated 01/05/2017. As decided in the 68<sup>th</sup> SEAC-II meeting dated-06/03/2017 letter was also issued to the M/s Cognizance Research India Private Limited, Noida through NABET (Quality Council of India) for preparing substandard EIA as an opportunity for explanation vide letter no. 202 dated 31/03/2017. M/s Cognizance Research India Private Limited, Noida vide their letter dated 17/04/2017 has apologies for such report and submitted revised EIA report making necessary corrections and amendments with commitment that same will not be reiterated in near future which was also placed before the committee. The committee after discussion decided since consultant has apologized in writing and submitted the revised EIA report, another opportunity should be given to him with a warning that if in the future any such substandard EIA report is submitted by them the case will be referred to NABET (Quality Council of India) for onward necessary action.

The case was presented by the PP and their consultant wherein during presentation it was observed that the proposed ventilation scheme provided by the PP for U/g operation found satisfactory. Further proposed illumination to be provided at U/g is also adequate and meeting the standard as prescribed by DGMS and PP has submitted that it is as per



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MMR, 1961 rule 146,147 & 148. The proposed capacity of fan is also found satisfactory as per the details provided in the EIA report. The safety distance to be maintained between u/g and o/c operation as per DGMS norms. It was directed to the PP that the level of entrance of the incline at U/g and surface should be maintained properly to prevent entering of water in U/g operation.

The geo hydrological aspects were also considered as given in the EIA and PP was asked to provide the sufficient arrangement to drain out excess water after providing sufficient settling time. PP was also asked to monitor the water table within the ML area and outside ML in four nearest villages with quarterly frequency and record thereof shall be maintained.

The proposed roof bolt support system was discussed in depth and it was submitted by PP that bolts will be provided at a distance of 1.5 sqm and PP was directed to carryout load testing after one hour of bolting. During discussion PP informed that the subsidence study will be conducted by the CMRI, Nagpur after starting the mining operation and the same will be submitted to DGMS and Indian Beauru of Mines (IBM). During presentation it was also observed that the mining lease is adjacent to the forest boundary and PP has obtained permission from the State Level Committee dated 26/07/2011.

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

1. PP shall responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. Transportation of material shall be done in covered vehicles.
3. Transportation of minerals shall not be carried out through forest area.
4. Necessary consents shall be obtained from MPPCB and the air/ water pollution control measures have to be installed as per the recommendation of MPPCB.
5. Curtaining of site shall be done through thick plantation all around the boundaries of the lease area.
6. The OB should be properly stacked inside the ML area in barrier zone and disposed of as per the submitted plan. All the waste dumps should be stabilized and compacted properly by appropriate methods and water spraying should be

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carried out during the handling of waste dumps and muck pile to avoid fugitive emissions.

7. Stone pitching should be carried out for the stability of the slopes of settling pits.
8. Water sprinkling arrangement through pipeline should be provided at unloading point of underground material and all other dust prone area.
9. For underground (U/g) operations, mechanical ventilation should be provided (Veq at the rate of 0.99) in all working shifts through vertical shaft and incline and ventilation survey should be conducted on monthly basis and flow of air (intake and return) should be monitored as per DGMS norms.
10. For mining operations following standard illumination should be provided as per DGMS norms:

<b>ILLUMINATION STANDARDS</b>				
<b>SURFACE LIGHTING</b>				
<b>Sl. No.</b>	<b>Place / Area to be illuminated</b>	<b>Manner in which it is to be illuminated</b>	<b>Minimum Standard illumination</b>	<b>Illumination Standards</b>
1	Area where Excavator or other excavation machine works.	So as to cover the depth & height through which the machinery operates.	10.0	10.0
2	Places where manual work done.	So as to illuminate the full height of the rig.	5.0 - 10.0	5.0 - 10.0
3	Places where loading, unloading or transfer, loading of dumpers, trucks or train carried on.	To be provided at level of the surface on which such work is done.	3.0	3.0
4	Truck haulage roads	To be provided at level of the road.	0.5 To 3.0	0.5 To 3.0
5	Permanent paths for use of persons employed etc.	To provide sufficient lighting in the path.	0.3	0.3
6	Vertical shaft pit top	To provide sufficient lighting.	0.5	0.5
7	No. of Incline pit top	To provide sufficient lighting in the pit.	0.5	0.5
8	Winder / Haulage Road	So that to cover the entire haul road.	0.5	0.5
9	Siding	So that to cover the entire	0.5	0.5

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		siding.		
10	Roads	To provide sufficient lighting in the roads.	0.2	0.2
<b>UNDERGROUND LIGHTING</b>				
1	Rail haulage track in the underground	To be provided at the level of rail heads.	0.5	0.5
2	Incline no. travelling road way	To provide sufficient lighting in the road way.	0.5	0.5
3	No. of incline pit bottom	To provide sufficient lighting in the incline pit bottom.	1.5	1.5
4	Vertical shaft bottom	To provide sufficient lighting in the vertical shaft bottom.	1.5	1.5

11. For roof support system, as proposed steel rods should be at least 1.50 meter long with minimum 20mm diameter and the diameter of holes should be 32mm. the load bearing capacity of each bolt shall be 02 tonnes of load in one hour and 06 tonnes of load in 08 hours.
12. The back of the excavated area shall be supported by fully grouted bolts as per suggestion of the RMR study by CMRI Nagpur. Each cable bolt shall be capable of bearing at least 25 tonnes of load.
13. The hanging wall shall be supported by rock bolts at least 2.00meter long at maximum interval of 2.0m x 2.0m in grid pattern. The bolts shall be installed perpendicular to the foliation plan of the rock mass with one row of chocks shall be provided at an interval of 3.0meter all along the hang wall side in the stope as and when required or as per suggestion of the RMR study by CMRI Nagpur.
14. As the proposed incline entry is prone to water inundation, the level of incline entry to the U/G working should be atleast 05 meters above any water source at the level of bottom floor of open abundant query.
15. Before starting the U/G operations, the statutory working permission from DGMS should be obtained.
16. The freshly exposed footwall area will be supported if required with cable bolts of suitable length and the distance between the cable bolt and footwall shall in no case be more than 2.0 meters. If required, inclined cable bolts shall also be

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- provided to ensure the same. If clay bands/ geological disturbance exposed in the footwall, the side shall be immediately supported by 2.0m long fully grouted steel bolts in a grid pattern of 2.0m x 2.0m. the bolts shall be installed perpendicular to foliation of the rock mass.
17. Wet drilling system and controlled delay blasting with low charge (if required) as prescribed by DGMS should be practiced.
  18. Production of Manganese Ore shall be as per mining plan with quantity not exceeding 30,000 TPA.
  19. Safety distance between U/g and O/c operation shall be maintained to prevent entering of water in U/g operation. In this regard, all the norms stipulated by DGMS should be complied.
  20. Stowing shall be carried out as per the plan submitted in EIA using fine of mica schist and sand. Any other material such as waste should be used with mica schist for stowing only after confirming its suitability by lechate study.
  21. Blast vibration study should be carried out ones in a year and their record shall be maintained.
  22. PP should carryout load testing after 30 minutes of bolting.
  23. Garland drains and settling pit should be provided to avoid silt discharge. As proposed, one settling tank (25m x 25m x 3m) connected with garland drains of suitable size shall be provided for proper sedimentation.
  24. Truck Mounted water tanker sprinkler should be provided on haul road. However, regular water spraying should also be practiced on transport road up to state highway for dust suppression.
  25. For management of mine water in underground operation two underground sump of suitable size with water pump of suitable capacity shall be provided respectively.
  26. The proposed plantation scheme and five time plantation against numbers of uprooted trees should be carried out and PP would maintain the plants including casualty replacement.
  27. Appropriate activities shall be taken up for social up – liftment of the region. Funds reserved towards the same shall be utilized through Gram Panchayat.
  28. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
  29. The commitments made in the public hearing are to be fulfilled by the PP.

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30. 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.
31. PP will comply with all the commitments made in by the letter dated 24.05.2017.

**2. Case No.- 5548/2017 M/s Hira Power and Steel Ltd, Khasra No. 51 1/1, 512/2, Urla Industrial Complex, Raipur, CG – 492003 Prior Environment Clearance for Manganese Ore Mine in an area of 6.264 Ha.. (18,000 TPA ha.) (Khasra no. 16/1) at Village- Jagantola, Tehsil - Paraswada, 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. 16/1) Village- Jagantola, Tehsil - Paraswada, Dist. Balaghat (MP) 6.264 Ha. The project requires prior EC before commencement of any activity at site.

Objective	Environmental Clearance for capacity expansion at Underground Manganese ore mine (6.264 ha)
Existing Capacity	10, 000 TPA of Mn ore
Proposed Capacity	18, 000 TPA of Mn ore
Land use of core zone	Own Land
Lease period	03/11/2046
Validity of CTO	01/04/2016 to 31/03/2017 (Applied for the CCA renewal on 11/01/2017)
Previous Environmental Clearances	Letter No. J – 11015/212/2006 – IA.II (M), Dt. 27/09/2007 Letter No. 64/EPCO-SEIAA/12, Dt. 18/04/2012
Verification of Compliance by MoEF & CC	<ul style="list-style-type: none"> <li>• Period from 2008 to 2012 - Vide letter no. 3-38/2007/ ENV/ 203, Dated 14/02/2012.</li> <li>• Period from 2012 to 2017 – Applied to MoEFCC vide letter no. HPSL/MINE/MoEF/17-18/006, dated: 11.04.2017</li> </ul>

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Location of Mine	Khasra No. – 16/1, Village – Jagantola, Tehsil – Paraswada, District – Balaghat (M.P.)
Lessee	Hira Power & Steels Ltd.
Altitude	640 – 600mRL ( underground lowest – 529mRL)

**Clarification regarding no requirement of NOC from commissioner level forest committee for 250 meter from forest boundary:**

During presentation it was submitted by PP that as our Mining Lease area is not touching the forest boundary from any side and it is surrounded by ML area of Krishna Mining & Trading Syndicate (62.58ha) from 3 sides & one side it is adjacent to Mining Lease area of Mr. I. Patric Dhanaraaj, hence there is no necessity of NOC from commissioner level forest committee for 250 meter from forest boundary. Furthermore in letter of Govt. of Madhya Pradesh, Forest Department, Ministry which is addressed to MS MPSEIAA clearly written that “It is an old Mining Lease hence, no requirement of NOC Certificate”. Govt. of M.P. Forest division, Ministry, Vallabh Bhavan, Bhopal, vide letter no. F-5/16/81/10-3, Bhopal dated 07.10.2002 also stated that provision for NOC from commissioner level forest committee for 250 meter from forest boundary is not applicable in case the Mining Lease is sanctioned prior to above stated date i.e. 07.10.2002 and our mine is sanctioned before this date.

Location	Village – Jagantola, Tehsil – Paraswada, District – Balaghat (M.P.)
Toposheet No.	64 C/5
Co-ordinates	Latitude – 21 <sup>0</sup> 56’53.90” to 21 <sup>0</sup> 57’07.90” N Longitude – 80 <sup>0</sup> 25’54.00” to 80 <sup>0</sup> 26’20.10” E
General ground level	636mRL
Elevation range	634mRL to 640mRL
Nearest Highway	State Highway – 26, 0.7 km towards North
Nearest Railway Station	Balaghat 45 km SW
Nearest Airport	Raipur 200 km SE
National park/ Wild Life Sanctuary/	No National park/ Wild Life Sanctuary/ Biosphere reserve/ tiger reserve/ elephant reserve etc are reported

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Biosphere reserve/ tiger reserve/ elephant reserve etc. within the core and buffer zone of the mine	to be located in the core and buffer zone of the mine.
Reserved / Protected Forest within 10 km radius	RF 1801 – 1.3 km West, RF 1802 – 55mtr West RF 1803 – 1.8 km SW, RF 1804 – 1.4 km South
Surrounding villages within 1 km of the project	Jagantola – NE, Rupjhar – NW, Daldala – East, Dhanitola - SE
Nearest River	Amanala – 1.25 km West, Kasturi nala – 0.75 km East
Nearest Lake & Ponds	Amanala dam – 1.4 km SW
Other Mines located within 500 m radius	Krishna mining & trading syndicate mine Jagantola,
Industry located within 10 km radius	None within 10 km
Area Surrounded by	North, East & South – Krishna mining & trading syndicate ML, West – I. Patric Dhanaraaj ML

The case was presented by the PP and their consultant, wherein PP submitted that it's a proposal for expansion from 10,000 TPA to 18,000 TPA without any change in the technology. Earlier EC was granted for the expansion from 8,000 TPA to 10,000 TPA with change in technology from open cast to underground mine by manual/semi mechanized method in an area of 6.264 ha and EC was issued vide letter no. 64/EPCO-SEIAA/12 Dated 18/04/2012. PP requested committee further that as per clause No. 7(ii) (a) of MOEF notification No. S. O. 3518 (E) dated 23<sup>rd</sup> Nov. 2016 they may be categorized in B2 category (without following entire environmental clearance process such as EIA report and public hearing) since proposed change does not result in any adverse impact on environment and whereas, the change in quantity of existing projects having environment clearance within existing area may be exempted from entire environmental clearance since there is no additional pollution load beyond the earlier approved threshold limit envisaged.

The provisions made in referred notification dated 23/11/2016 were placed before the committee which reads as follows:

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*“All applications seeking prior environmental clearance for expansion with increase in the production capacity beyond the capacity for which prior environmental clearance has been granted under this notification or with increase in either lease area or production capacity in the case of mining projects or for the modernization of an existing unit with increase in the total production capacity beyond the threshold limit prescribed in the Schedule to this notification through change in process and or technology or involving a change in the product mix shall be made in Form I and they shall be considered by the concerned Expert Appraisal Committee or State Level Expert Appraisal Committee within sixty days, who will decide on the due diligence necessary including preparation of Environmental Impact Assessment and public consultations and the application shall be appraised accordingly for grant of environmental clearance”.*

Committee after deliberation and considering the MoEF&CC notification issued vide SO 3518(E) dated 23/11/2016, 7(ii) (a) in EIA Notification, 2006 recommends that PP has to carryout EIA study to ascertain the increase in pollution load however and in place of public hearing as per EIA Notification, 2006, a notice may be given in local two news papers inviting suggestions/objections for this expansion project through regional officer, MP Pollution Control Board, Jabalpur and same should be addressed through EMP with EIA report. PP further submitted that they have started collecting the baseline data from March, 2017. It's being a case of Manganese Ore Mine and falls under B-1 category committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA with following additional TORs:-

1. Approved mining plan to be submitted at the time of EIA Presentation.
2. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
3. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
4. Transportation plan & traffic management plan should be discussed in the EIA report.
5. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
6. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
7. Compliance of earlier EC conditions from MoEF&CC should be obtained and submitted with EIA report.
8. Year wise details of minerals already excavated till date should be submitted with EIA report.
9. Hydro geological study should be carried out if ground water intersection is proposed.
10. Top soil management plan should be addressed in EIA report.
11. Input data of modeling should be addressed in EIA along with this all back up calculation.



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12. Onsite pictures of monitoring and survey along with date and time on photographs should be attached with the EIA report.
13. Being operative mine, videography of mine and surrounding area should be carried out with aerial view by drone camera and submitted with EIA report.
14. Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
15. Ground water table data should be compared with data of Central Ground Water Board authorities nearest sampling point.
16. Water quality of all the villages within 10 k.m radius should be studied and result should be incorporated in final EIA report.
17. PP would follow environmental extend rules.

**3. Case No.4646/15 Shri Sarvesh Pratap Singh R/o Village & Post-Janardanpur, Tehsil-Rampur Baghelan, District-Satna (MP)-485001 Prior Environment Clearance for approval of Laterite and Limestone Mine in an area of 4.85 ha. (43,875 TPA) at Khasra No.-1289/1, Village-Ramnagar, Tehsil-Rampur Baghelan, District-Satna (MP).(EIA Consultant: M/s CES, Bhopal.)**

This is case of Laterite and Limestone Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.-1289/1, Village-Ramnagar, Tehsil-Rampur Baghelan, District-Satna (M.P.) 4.85 Ha. The project requires prior EC before commencement of any activity at site.

*The case was presented by the PP in the 08<sup>th</sup> SEAC II meeting dated 20/02/2016. It's being 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. 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.*
- 4. Any alternate route avoiding the nearby habitations.*
- 5. Compliance of consent conditions of M. P. Pollution Control Board from concerned Regional officer.*

*PP has submitted EIA vide letter no.-23/03/2017 which was forwarded by the SEIAA vide letter no.-5683, dated-25/03/2017 which was placed before committee in 71<sup>st</sup> SEAC-II meeting dated-10/04/2017 wherein it was recorded that The Project Proponent (PP) was not present to explain*

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*the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. A representative of the PP requested that due to some unavoidable circumstances the PP could not come to Bhopal and requested that their project should be heard in the meeting scheduled on 12/04/2017. Committee decided that request of PP's representative can be considered if time permits on 12/04/2017 for their presentation after the scheduled agenda otherwise case may be scheduled in the upcoming meetings of SEAC II.*

The case was scheduled for presentation in 75<sup>th</sup> SEAC-II meeting dated-04/05/2017, 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. PP vide letter dated 02/05/2017 requested to give another chance for presentation as his EIA consultant and his team is unable to attend the meeting due to some genuine reason. Committee accept the request of the PP and decided to give another chance in subsequent SEAC 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 presented by the PP and their consultant wherein during presentation, it was submitted by PP that the mine is topographically flat and is surrounded by the habitation (350 mtr) and forest (400m). Reserves detail has been discussed and found satisfactory, which is as per the approved mining plan. Geo technical details were discussed and found satisfactory considering proposed bottom area of the ultimate pit. As reported, water table is around 10-12 mt BGI and ultimate depth is proposed 7 mtrs. Hence water table will not be intersected. The presentation and the submissions made by the PP reveals following:

S. No.	Particulars	Details
1.	Locations	
	Village	Ramnagar
	Tehsil	Rampur Baghelan
	District	Satna, MP
	State	MP
2.	Latitude Longitude	24°37'05.8''-21°37'8.9'' North 81°4'7.6''-81°04'30.6'' East
3.	Co-Ordinate	1. 24°37'07.5''- 81°04'07.6'' 2. 24°37'08.3''- 81°04'07.6'' 3. 24°37'08.8''- 81°04'18.3'' 4. 24°37'08.9''- 81°04'30.3'' 5. 24°37'05.9''- 81°04'30.6'' 6. 24°37'05.8''- 81°04'20.3''

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		7. 24 <sup>0</sup> 37'05.9"- 81 <sup>0</sup> 04'15.5"
4.	Above mean Sea level	292-288 m
5.	Nearest National/state Highway	NH- 75 – 11.15 km- SW
6.	Nearest Railway Station	Tap Baghai RS - 7.75km - SSW
7.	Nearest Airport	Satna Air Strip – 23 km
8.	Nearest Tourist Place within 10km radius.	None
9.	Archaeological Important Place within 10km radius.	None
10.	Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	<b>None</b>
11.	Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Sathari RF– 0.40 km– SE
12.	Nearest major city with 100000 population within 10km radius	None
13.	Nearest Town / City within 10km radius	Nil
14.	Nearest Village	Ramnagar – 0.35 km - W
15.	Nearest River	Tamas River - 3.25 km - WNW
16.	Nearest Nalla/Nadi	Nar Nadi – 3.30 km – W Simrawal Nadi - 6.25 km – NW Dila nalla - 3.0 km – SW Kariari Nadi – 9.0km – ESE Canal - 5.80km - SE Canal - 3.75km - E
17.	Nearest Hill Ranges	None within 10 km radius
18.	Other lease area within 500m radius	None
19.	Industry within 10km radius	Prism Cement – 9.15km - SW
20	Surrounding features within 500m radius	N- Waste land followed by agricultural land & seasonal gullies NE - Waste land followed by agricultural land & seasonal gullies E – Waste Land followed by Forest SE- Waste land followed by agricultural land S- Agricultural land SW- Agricultural land followed by village road and habitation

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	W – Agricultural land followed by Ramnagar tola NW - Agricultural land
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It was also reported by the PP that the fresh lease was granted for period of 20 years from 24.03.2005 to 23.03.2025 and lease area comes under Govt waste land. No other lease area is located within 500m radius and scheme of mining with progressive mine closure plan has been approved by IBM, Nagpur.

**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	4.85 ha
3.	Mineable Area	2.8337 ha
4.	Existing Pits	1.3559 ha
5.	Existing dump	Nil
6.	Infrastructure and road	0.03 ha
7.	Mineral Storage	Nil
8.	Plantation	Nil
9.	Total Minable Reserve	190210 T
10.	Method of mining	Semi-mechanised
11.	Ultimate Depth of Mining	7 m bgl (281 mRL)
12.	Existing capacity	25000 MTPA
14.	Proposed capacity	43875 MTPA
15.	Expected Life of Mines	6 Year
16.	Lease Period	20 years upto 23.03.2025
17	Thickness of soil	Nil
	Minimum	
	Maximum	
	Thickness of OB	Nil
	Minimum	
	Maximum	
18	Proposed mode to transportation of mineral	Road
19	Area to be covered under dumps at the end of conceptual period	Nil
20	Area to be covered under open pit at	2.8337 ha

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	the end of conceptual period	
21	Area to be reclaimed at the end of conceptual period	0.3864ha
22	Area to be converted as water body at the end of conceptual period	0.95 ha
23	Area to be covered under plantation at the end of conceptual period	2.8838 ha
24	Average AMSL	292-288 mRL
25	Ground water table	
	Monsoon period	10 m bgl (278 m AMSL)
	Dry month	12 m bgl (276 m AMSL)
25	Capacity per day	146.00MT
26	Dumper movement per day with capacity	6.0 nos

### **GEOLOGY OF THE MINE**

Local geology is a part of regional geology of the area. Deposit of laterite in the area is capping type of deposit, average thickness of laterite capping is about 1.5 m, and few outcrops of limestone are also seen in the area. Laterite of the area is brown in colour like murrum, size of boulders are not exceeding 3 to 4", medium heavy in nature having bulk density 2.7 tonnes per cubic meter.

A dug well with the depth 7 to 10 m is located in western part of the area. About 1.5 m. Thickness of laterite and 5.5 m thickness of limestone is seen in dug well. Two type of thickness of limestone is taken – 121 category with 3 m thickness and 122 category by taking 100m lateral influence. Limestone of the area is strait form deposit of regular habit having strike direction is north 45<sup>0</sup> east south 45<sup>0</sup> west having 3 to 50<sup>0</sup> dip towards south east. Limestone of the area is light gray to greyish white in colour, medium hard in nature having bulk density 2.5 tonnes per cubic meter.

Area is covered by laterite followed by limestone. Depth continuity of limestone is seen up to AMSL 281 m (about 5.5 m thickness) in the dug well and about 2 m thickness of limestone is seen in pit B located in central part of the area. Litho units seen in the dug well are mentioned below.

0 – 1.5 - Laterite

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1.50 - 7.0 - Limestone

Pit no.	Broken area		m MSL		Max no of benches				Overall slope Degree
	Surface	Bottom	Surface	Bottom	Type	Bench no	Avg. height in m	Avg. width in m	
A	2079	2000	291	290	Laterite	B1	1	27	50
B	7700	7500	291	290	Laterite	B1	1.5	70	45-50
			290	286.5	Limestone	B2	2	20	
C	300	275	289	288	Laterite	B1	1	15	45
D	80	80	288	287	Laterite	B1	1	8	45
E	3400	3000	290	289	Laterite	B1	1-1.5	40	45
Total	13559	12855							

Details of SOM pit									
Pit no.	Broken area		m MSL		Max no of benches				Overall slope Degree
	Surface	Bottom	Surface	Bottom	Type	Bench no	Avg. height in m	Avg. width in m	
All the pits will join together	13559	12855	292-288	286.5	Laterite	B1	1.5	70	45
					Limestone	B2	2	20	

Details of conceptual pit									
Pit no.	Broken area		m MSL		Max no of benches				Overall slope Degree
	Surface	Bottom	Surface	Bottom	Type	Bench no	Avg. height in m	Avg. width in m	

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All the pits will join together	28337	28337	292-288	286.5	Laterite	B1	1.5	1.5	45
					Limestone	B2	2	2	
					Limestone	B3	3	3	

**Mining Method**

Mining is being carried out by the opencast semi mechanized method using hand tools i.e. spades, chisel, Hammer etc. At present and same methodology will be adopted for capacity expansion also. Three large and three small pits have been observed in lease area with depth of 1.5 m bgl. Presently 1.3559 ha area has been excavated up to 286.5m MSL with 5 no. of pits and during the ensuing five year development, all existing pits will be join together at 286.5m MSL, Ground water seepage will not encounter because the proposals of conceptual period will be above to GWT. Deposit of Laterite is soft and loose in nature hence blasting is not required for removal of laterite but Limestone may require blasting hence blasting is proposed when hard rock will encounter. At the time of operation, proper safety is being taken care by whistling and keeping the person away at safer distance from excavator while it is in operation. The mineralization in the lease area after blasting is amenable to direct excavation by hydraulic excavators. Present mineralization is considered up to 322 mRL and accordingly the workings have been conceptualized. As the mine life is estimated for 5 year and the lessee is in process to shift the electric line so after the shifting of electric line, the modification will be reflected in the subsequent document and further more the NW available part of 11.833 ha if developed, then the geological resources may be converted in to mineable reserves and accordingly SOM will be modified.

**Existing and proposed land use plan**

Items	Existing	Conceptual Period
Total lease area	4.85 ha	
Ultimate depth of mining	1.5 m bgl	7 m bgl
Ultimate pit slope	60 degree	60 degree
Area under dumps	Nil	Nil
Area under pits	1.3559 ha	2.8337 ha
Infrastructure & Road	0.030ha	0.30ha
Mineral storage	Nil	Nil
Garland drain	1.01ha	0.50ha
Un-worked area	2.4541ha	1.2163ha

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Total	4.85ha	4.85ha
Area to be reclaimed	Nil	0.3864ha
Water body	0.50 ha	0.95 ha
Plantation		
Plantation un-worked area	-	1.0ha (2000No.)
Backfilled area	-	0.3864ha (760no.)
Bench of pit	-	1.4974ha (2995no.)
Total	-	2.8838 (5750 no. )

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

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Transportation of minerals shall not be carried out through forest area.
6. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease.
7. The OB should be properly stacked inside the ML area in barrier zone and disposed off as per the submitted plan. PP shall bound to compliance the final closure plan as approved by the IBM
8. Production of Laterite and Limestone shall be as per the mining plan with quantity not exceeding 43,875 TPA.
9. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) including the village side to provide additional protection in one year only.
10. Authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.



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11. As proposed, garland drains (existing 1287mX0.50mX0.50) and settling pits should be provided to avoid silt discharge. As proposed, 10 settling pits (0.5mX0.35mX0.5m) connected with garland drains shall be provided for proper sedimentation.
12. As proposed, 02 settling tanks, (40mX33mX2.5) and (16mX42mX2.5m) connected with garland drains shall be provided for proper sedimentation.
13. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
14. Regular water spraying system should be provided on 1000 meter long and 06 meter wide haul road. However, regular water spraying should be practiced on 2000 meter long and 05 meters wide transport road for dust suppression.
15. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
16. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
17. The commitments made in the public hearing are to be fulfilled by the PP.
18. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
19. PP will comply with all the commitments made in by the letter dated 24/05/2017.

**4. Case No. -5164/16 Shri Ashok Katare, M/s Associated Lime Company, Mission Chowk, District-Katni (MP). Prior Environment Clearance for Limestone Deposit in an area of 7.035 ha. (expansion from 58,000 to 2,08,778 TPA) at Khasra No. 61 and 63 at Village-Nanhwara, Tehsil-Vijayraghgarh, District-Katni (MP) (EIA Consultant: M/s CES, Bhopal.)**

This is case of Limestone Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra No. 61 and 63 at Village-Nanhwara, Tehsil-Vijayraghgarh, District-Katni (MP) 7.035 ha. The project requires prior EC before commencement of any activity at site.

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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.-5050, dated: 23/11/15, has reported that there are 09 more mines operating or proposed within 500 meters around the said mine with total area of 220.581 ha including this mine.

Earlier this case was scheduled in 25<sup>th</sup> SEAC-II meeting dated-17/05/2016 wherein it was recorded that: *The case was presented by the PP. It's being 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. *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.*
4. *HI line is crossing the lease and thus this issue should be discussed in the EIA report.*
5. *Compliance of consent conditions of M. P. Pollution Control Board from concerned Regional officer.*
6. *Detailed plantation scheme with budgetary allocations be provided in the EIA report.*
7. *Mine water management plan be provided in the EIA report.*

PP has submitted EIA vide letter no.-18/04/2017 which was forwarded by the SEIAA vide letter no.-285, dated-21/04/2017.

The case was scheduled for presentation 75<sup>th</sup> SEAC-II meeting dated-04/05/2017, 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. PP vide letter dated 02/05/2017 requested to give another chance for presentation as his EIA consultant and his team is unable to attend the meeting due to some genuine reason. Committee accept the request of the PP and decided to give another chance in subsequent SEAC 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 during presentation, it was submitted by PP that the mine is topographically flat and mine is surrounded by the habitation (200 mtr and 400mtrs) and ten other leases and three crushers. Resrve detail has been discussed and found satisfactory, which is as per the approved mining plan. Geo technical details were

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discussed and found satisfactory considering proposed bottom area of the ultimate pit. As submitted by PP during presentation that water table is around 74-84 mt BGl and ultimate depth is proposed 72 mtrs. Hence water table will not be intersected. The presentation and the submissions made by the PP reveals following:

S. No.	Particulars	Details
1.	Locations	
	Village	Nanhwara
	Tehsil	Vijayraghgarh
	District	Katni
	State	MP
2.	Latitude	24 <sup>0</sup> 01' 04.8 '' to 24 <sup>0</sup> 01'17.3'' North
	Longitude	80 <sup>0</sup> 32'53.1'' to 80 <sup>0</sup> 33'06.9''East
3.	General ground level (AMSL)	395 m
4.	Above mean sea level	Highest -396 m Lowest - 394m
5.	Nearest National/ State Highway	Jukhei-kymore road - 0.30km- NWN
6.	Nearest Railway Station	Amdara Railway Station - 9.50km -N
7.	Nearest Airport	Jabalpur - 108.00 km
8.	Nearest Tourist Place within 10km radius.	None
9.	Archaeological Important Place within 10km radius.	None
10.	Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	<b>None</b>
11.	Nearest hill range within 10km radius	<b>Kaymore hill -0.550km- N</b>
12.	Reserved / Protected Forests within 10km radius	Surma RF - 1.00 km- N Banjari RF - 6.50km - ESE Goindra RF - 7.0km - SE
13.	Nearest major city with 100000 population within 10km radius	Nil
14.	Nearest Town/City within 10km radius	None
15.	Nearest Village	Ameheta - 0.60km- W Ametha Labour Colony -0.40 km- N Nearest habitation - 0.20km - NE

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16.	Nearest River with 10km radius	Koilari Nadi -6.0km- SSE Tamas (tons) River - 4.50km – NW Mahanadi River - 9.5km- SE Katni River -7.0 km - SES
17.	Nearest Nalla/pond	Local nalla – 4.50km - SSW
18.	Other mines within 0.5km radius	1. M/S A.C.C limited (13.68 ha) 2. M/s S.N. Sadarsan(2.20ha ) 3. Shri Raj kishore Agrawal (10.45ha) 4. Shri Trilokinath Agrawal (7.75ha ) 5. Shri Trilokinath Agrawal(2.80ha) 6. M/s N.M. Duwas limestone (1.51ha) 7. N.M. Duwas limestone (0.76ha) 8. N.M. Duwas limestone (2.35ha) 9. M/s ACC Limited (12.20ha) 10. Associated Lime Company (11.13ha)
19.	Industry within 10km radius	ACC Kaymore Cement - 7.0km
20.	Surrounding features withing 500m polygon	N- Own land, Crusher, Jukehi- Kaymore road, Kaymore hill foot, Ametha Labour Colony NE- Adjacent own lease area, Habitation and village road E- Village road followed by Agricultural land SE – Adjacent own other lease area agricultural land, Village road S – Adjacent own other lease, agricultural land SW- Other lease area , Agricultural land W- Other lease area , Agricultural land NW - Other lease area, Agricultural land
21.	Crusher within 10 km radius	10 no.
22.	Lime kiln within 10km radius	10 o.

It was also reported by the PP that the fresh lease was granted for period of 20 years from 05.12.1975 to 04.12.1995 and further renewed for 20year upto 04.12.2025. The lease area comes under own waste land and ten other lease area and three crushers are located within 500m radius. The scheme of mining with progressive mine closure plan has been approved by IBM, Nagpur.

**SECOND STATE EXPERT APPRAISAL COMMITTEE-2 (MINING)**  
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**Salient feature of the lease area**

<b>S. No.</b>	<b>Particulars</b>	<b>Details</b>
1	Type of Mine	Open Cast
2	Mining Lease Area	7.035 ha
3.	Mineable Area	5.5175 ha
4.	Existing Pits & Quarries	5.025 ha
5.	Existing Dumps	0.65 ha
6.	Infrastructure and road	0.196 ha
7.	Mineral Storage	Nil
8.	Plantation	0.6570ha
9.	Recoverable Reserve	881433 MT
10.	Method of mining	OTFM
11.	Present depth of mining	59m bgl (335 m MSL)
12.	Ultimate Depth of Mining	72 m bgl (322m MSL)
13.	Ultimate Pit Slope	45°
14.	Expected Life of Mines	5 year
15.	Lease Period	50 Years from 05.12.1975 to 04.12.2025
16.	Thickness of lateritic soil	
	Minimum	0.0m
	Maximum	6.0m
17	Stripping Ratio	1:0.46 – 1:0.64
18	Mode to transportation	Road
19	Area to be covered under dumps in conceptual period	0.65 ha
20	Area covered under pit in conceptual period	5.5175 ha
21	Area to be reclaimed by conceptual period	1.7411 ha (bottom area) 0.78ha (top area)
22	Area to be covered under plantation by conceptual period	3.1370ha
23	Area to covered under water reservoir	2.1764 ha
24	AMSL	396-394m
25	Ground water table	
	Monsoon period	310 m AMSL
	Dry month	320 m AMSL
26	Production per day	696.00MT
27	Dumper required per day with capacity	29.00 (24MT)

**SECOND STATE EXPERT APPRAISAL COMMITTEE-2 (MINING)**  
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**GEOLOGY OF THE MINE**

The lease area has lower Vindhyan (Semri) limestone occurring with alternate bands of shale or shaly limestone. In general the limestone occurring with alternate bands of shale or shaly limestone. In general, the limestone is capped by 5-6 m soil cover. Litho set up of the area is under-

- Soil
- Limestone along with shale band
- Base is not known

**Structural finding**

Strike and Dip: NE- SW, having dip<sup>4</sup><sup>0</sup>-10<sup>0</sup> towards the north.

- Topographically the majority of the area has been degraded by one major pit. Earlier before the excavation the area possessed a gentle rolling topography with elevation difference of 1-2 m. The highest elevation is of 396 m in the southern part while the lowest one is of 394 m in the northern part of the lease area .
- The lease area is contiguous with 11.833 ha lease area of same lessee. The lease area has been explored by existing working pit and two additional core bore holes of 18m and 20m depth respectively and limestone is found to continue up to drilled depth for MRL 322m. Thus under G1, 100m radial influence is considered from BH—2 approx area is around 3.0620 ha and area other than G1 is already coming under 200m influence hence the remaining area of 3.9730 ha is considered under G2 while the overall thickness of limestone below OB for both categories is considered up to 62m.

Pit No.	Size- M	AMSL	Logging In Meters (Average)
PIT-1	5.025 ha × 40 to 60m	335m	0.00-6.0m - Lateritic soil/shaly formation 6.0-60m - Limestone with thin bands of shale (Few mm)

Details of proposed pit at the end of conceptual period						
Pit No.	Broken area	Pit Bottom Area	Surface RL	Pit Bottom RL	Benches	Overall slope
Pit	5.5175	3.25	395-389m	322 m	OB -1 B1 (lat soil) Heigh	45 0

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A					and Width – 6 x 6 M	
					Lime stone (B2,B3,B4,B5,B6,B7, B8 B9, B10, B11, B12 B13 Height and Width (6 x 6 Avg.	

### Mining Method

During the ensuing five years about 0.4925 ha additional area will be developed and hence cumulative area will be 5.5175 ha with twelve benches for an avg. 72 m depth in Limestone zone. During the proposal period the generated waste will be used for backfilling at the western barrier zone excavation. Whenever dewatering is required during the post monsoon season it will be done by two 10 HP pumps and drained out water will be collected in settling tank which is located central part of lease area and will be used for agriculture purpose. Open cast method (OTFM) of mining has been carried out and same will continue in future also. All operations of mining are being carried out by deployment of heavy earth moving machineries for excavation, loading & transport. Drilling of the blast holes is proposed by compressed air fed jack hammers and wagon drills. Height of the bench is proposed to be kept at 6 m where as the jack hammer drill will make 1.5 m deep bore hole which will be done at four to five stages then at required massive formation. Loading operation at face will be done by excavator hydraulic shovels of 1.00 cu.m. bucket capacity. At the time of operation, proper safety is being taken care by whistling and keeping the person away at safer distance from excavator while it is in operation. The mineralization in the lease area after blasting is amenable to direct excavation by hydraulic excavators. Present mineralization is considered up to 322 mRL and accordingly the workings have been conceptualized. As the mine life is estimated for 5 year and the lessee is in process to shift the electric line so after the shifting of electric line, the modification will be reflected in the subsequent document and further more the NW available part of 11.833 ha if developed, then the geological resources may be converted in to mineable reserves and accordingly SOM will be modified.

### Existing and proposed land use plan

Items	Existing	Conceptual period
<b>Total lease area</b>	<b>7.035ha</b>	
Ultimate depth of mining	59 m bgl (335n AMSL)	72m bgl (322m AMSL)

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Ultimate pit slope	45 degree	45 degree
Area under dumps	0.65 ha	0.65 ha
Area under pits	5.025ha	5.5175ha
Infrastructure & Road	0.194ha	0.196ha
Mineral storage	Nil	Nil
Plantation of unworked area	0.4620ha	0.5120
Un worked area	0.704ha	0.1595ha
<b>Total</b>	<b>7.03ha</b>	<b>7.03ha</b>
Water body	1.5ha	2.1764ha
Area to be reclaimed	0.72 ha (bottom area) 0.55 ha (top area)	1.7411 ha (bottom area) 0.78ha (top area)
<b>Plantation</b>		
Un-worked area	0.4620ha (175 no.)	0.5120ha (675no.)
Backfilled area	-	0.78ha (1560 no.)
Benches of pit	0.15ha (265 no.)	1.60ha (2165 no.)
In-side of dump	0.0450ha (50no.)	Nil
Total plantation area	0.6570ha (490 no. )	3.1370 ha (5450 no.)

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

1. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
2. Necessary consents shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Transportation of material shall be done in covered vehicles.
5. Transportation of minerals shall not be carried out through forest area.
6. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease.



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7. The OB should be properly stacked inside the ML area in barrier zone and disposed off as per the submitted plan. PP shall bound to compliance the final closure plan as approved by the IBM
8. Production of Limestone shall be as per the mining plan with quantity not exceeding 2,08,778 TPA.
9. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) including the village side to provide additional protection in one year only.
10. Authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
11. As proposed, garland drains (existing 712mX0.25mX0.50 and proposed 80mX0.25mX0.50) and 05 settling pits (0.5mX0.35mX0.50) should be provided to avoid silt discharge. As proposed, 03 settling tanks (one existing 1.50haX10m and two proposed 50mX12mX05m) for proper sedimentation connected with garland drains shall be provided for proper sedimentation.
12. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
13. Regular water spraying system should be provided on 2000 meter long and 06 meter wide haul road. However, regular water spraying should be practiced on 420 meter long and 06 meters wide transport road for dust suppression.
14. 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.
15. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
16. The commitments made in the public hearing are to be fulfilled by the PP.
17. 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.
18. PP will comply with all the commitments made in by the letter dated 24/05/2017.

**SECOND STATE EXPERT APPRAISAL COMMITTEE-2 (MINING)  
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5. **Case No. 5545/17 M/s Satguru Cements Pvt. Ltd, 601/1, Airen Heights, Scheme No. 54, PU-3, Opposite C-21 Mall, A.B. Road, Indore, MP Prior Environment Clearance for Limestone Mine in an area of 6.773 Ha.. (7600 TPA ha.) (Khasra no. 160, 162, 203, 167, 168, 169) at Village- Ghursal, Tehsil - Gandhwani, Dist. Dhar (MP) (Consultant: M/s CES, Bhopal.)**

This is case of Limestone Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 160, 162, 203, 167, 168, 169) at Village- Ghursal, Tehsil - Gandhwani, Dist. Dhar (MP) 6.773 ha. The project requires prior EC before commencement of any activity at site.

**Environment setting**

<b>Particulars</b>	<b>Details</b>
Locations	
Village	Ghursal
Tehsil	Gandhwani
District	Dhar
State	MP
Nearest National/state Highway	SH-38 – 1.75km – E
Nearest Railway Station	Mhow – 75.0km
Nearest Airport	Indore
Nearest Tourist Place	None in 10 km radius
Archaeological Important Place	None in 10 km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None in 10 km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Sardarpur RF- 5.00 km - NE
Nearest major city with 100000 population	None in 10 km radius
Nearest village	Ratitalai - 1.0km - E
Nearest Town	Gandhwani - 7.25km
Physiography	Undulating
Slope	E, SE
Nearest River	Man River - 4.0 km - ESE Sukkar Nadi - 1.00km - E
Nearest nalla/ pond/canal	Man Reservoir - 4.25 km - ENE Local Nalla - 0.010km - S

**SECOND STATE EXPERT APPRAISAL COMMITTEE-2 (MINING)  
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Nearest hill/valley	Sardarpur Pahar - 5.0km - N
Industry within 10km radius	M/s Satguru Cement Pvt. Ltd.

It was reported by the PP that

- The lease was granted for period of 50years from 09.01.2017 to 08.01.2067.
- The lease area comes under Govt. land.
- One other lease area is located within 500m radius
- Mining activity will be proposed in lease area after obtaining environmental clearance and consent to operate from MPPCB
- 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	Open Cast
Mining Lease Area	6.773 ha
Existing Pits & Quarries	Nil
Existing Dumps	Nil
Infrastructure and road	Nil
Plantation	Nil
Total Movable Reserve	189734.00t
Method of mining	OTFM
Ultimate Depth of Mining	2m bgl (upto 280m MSL)
Expected Life of Mines	27 years
Stripping Ratio	Nil
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	1.0849ha
Area to be reclaimed in conceptual period	Nil
Area to be rehabilitated by afforestation in conceptual period	1.25ha
Area to be covered under water reservoir	Nil
Ground water table	
Monsoon period	15m bgl (267m AMSL)

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Dry month	20m bgl (262m AMSL)
Production per day (T)	25T
Truck per day (24t )	1.0
End user of mineral	Cement grade, Cement Industries and beneficiation plant
Supply location	Captive use – 3.0km

**Post land use plan**

Items	Existing	At the end of conceptual period
<b>Total lease area</b>	6.773 ha	
Mineable area	1.0849 ha (in block-A)	
Ultimate depth of mining	Nil	2 m bgl (280 m AMSL)
Ultimate pit slope	Nil	45 °
Area under dumps	Nil	Nil
Area under mineral stack	Nil	Nil
Area under pits	Nil	1.0849 ha
Area to be backfilled	Nil	Nil
Infrastructure & Road	Nil	Nil
Plantation	Nil	2.0ha
Water body	Nil	Nil

The case was scheduled for presentation 75<sup>th</sup> SEAC-II meeting dated-04/05/2017, 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. PP vide letter dated 02/05/2017 requested to give another chance for presentation as his EIA consultant and his team is unable to attend the meeting due to some genuine reason. Committee accept the request of the PP and decided to give another chance in subsequent SEAC 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 presented today by the PP and their consultant, wherein it's a case of Limestone Mine and falls under B-1 category committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA with following additional TORs:-

**SECOND STATE EXPERT APPRAISAL COMMITTEE-2 (MINING)**  
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1. Approved mining plan to be submitted at the time of EIA Presentation.
2. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
3. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
4. Transportation plan & traffic management plan should be discussed in the EIA report.
5. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
6. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
7. Compliance of consent conditions duly authenticated by concerned Regional Officer, MP Pollution Control Board.
8. Year wise details of minerals already excavated till date should be submitted with EIA report.
9. Hydro geological study should be carried out if ground water intersection is proposed.
10. Top soil management plan should be addressed in EIA report.
11. Input data of modeling should be addressed in EIA along with this all back up calculation.
12. Onsite pictures of monitoring and survey along with date and time on photographs should be attached with the EIA report.
13. Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
14. Ground water table data should be compared with data of Central Ground Water Board authorities nearest sampling point.
15. Water quality of all the villages within 10 k.m radius should be studied and result should be incorporated in final EIA report.
16. Since the mining site is in close proximity of city area hence atleast 08 stations should be selected for monitoring and results should be discussed in the EIA report.
17. PP would follow environmental extend rules.

6. **Case No.5547/17 M/s Satguru Cements Pvt. Ltd, 601/1, Airen Heights, Scheme No. 54, PU 3, Opposite C-21 Mall, A.B.Road, Indore, MP Prior Environment Clearance for Limestone Mine in an area of 8.941 Ha. (50,000 TPA ha.) (Khasra no. 147/1, 247, 249) at Village-Ghursal, Tehsil - Gandhwani, Dist. Dhar (MP) (Consultant: M/s CES, Bhopal.)**

This is case of Limestone Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 147/1, 247, 249) at Village- Ghursal, Tehsil - Gandhwani, Dist. Dhar (MP) 8.941 Ha. The project requires prior EC before commencement of any activity at site.

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**Environment setting**

<b>Particulars</b>	<b>Details</b>
Locations	
Village	Ghursal
Tehsil	Gandhwani
District	Dhar
State	MP
Nearest National/state Highway	SH-38 – 1.25km – E
Nearest Railway Station	Mhow – 75.0km
Nearest Airport	Indore
Nearest Tourist Place	None in 10 km radius
Archaeological Important Place	None in 10 km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None in 10 km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Sardarpur RF- 5.00 km - N
Nearest major city with 100000 population	None in 10 km radius
Nearest village	Ghursal - 0.30km - E
Nearest Town	Gandhwani - 7.25km
Physiography	Undulating
Slope	E, SE
Nearest River	Man River - 3.75 km - ESE Sukkar Nadi - 0.08km - E
Nearest nalla/ pond/canal	Man Reservoir - 3.75 km - ENE Local Nalla - 0.010km - N
Nearest hill/valley	Sardarpur Pahar - 5.0km - N
Industry within 10km radius	M/s Satguru Cement Pvt. Ltd.

It was reported by the PP that

- The lease was granted for period of 50years from 29.12.2016 to 28.12.2066.
- The lease area comes under Govt. land.
- One other lease area is located within 500m radius
- Mining activity will be proposed in lease area after obtaining environmental clearance and consent to operate from MPPCB

**SECOND STATE EXPERT APPRAISAL COMMITTEE-2 (MINING)  
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- 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	Open Cast
Mining Lease Area	8.941ha
Existing Pits & Quarries	1.40ha
Existing Dumps	0.12ha
Infrastructure and road	0.12ha
Plantation	Nil
Total Movable Reserve	935100.00 T
Method of mining	OTFM
Ultimate Depth of Mining	10m bgl (upto 292m MSL)
Expected Life of Mines	22years
Stripping Ratio	1:0.05
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	7.22ha
Area to be reclaimed in conceptual period	2.50ha
Area to be rehabilitated by afforestation in conceptual period	4.0ha
Area to be covered under water reservoir	4.0ha
Ground water table	4.0ha
Monsoon period	35m bgl (267m AMSL)
Dry month	40m bgl (262m AMSL)
Production per day (T)	167.00T
Truck per day (24t )	7.0
End user of mineral	Cement grade, Cement Industries and beneficiation plant
Supply location	Captive use – 3.0km

**SECOND STATE EXPERT APPRAISAL COMMITTEE-2 (MINING)  
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**Post land use plan**

Items	Existing	At the end of conceptual period
<b>Total lease area</b>	8.941ha	
Mineable area	7.22	
Ultimate depth of mining	10m bgl	10m bgl (292m MSL)
Ultimate pit slope	80	45 <sup>o</sup>
Area under dumps	0.12ha	Nil
Area under mineral stack	Nil	Nil
Area under pits	1.40ha	7.22ha
Area to be backfilled	Nil	2.50 (partially)
Infrastructure & Road	0.14ha	Nil
Plantation	Nil	4.0ha
Water body	0.2ha	4.0h

The case was presented today by the PP and their consultant, wherein it's a case of Limestone Mine and falls under B-1 category committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA with following additional TORs:-

1. Approved mining plan to be submitted at the time of EIA Presentation.
2. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
3. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
4. Transportation plan & traffic management plan should be discussed in the EIA report.
5. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
6. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
7. Compliance of consent conditions duly authenticated by concerned Regional Officer, MP Pollution Control Board.
8. Year wise details of minerals already excavated till date should be submitted with EIA report.
9. Hydro geological study should be carried out if ground water intersection is proposed.
10. Top soil management plan should be addressed in EIA report.
11. Input data of modeling should be addressed in EIA along with this all back up calculation.
12. Onsite pictures of monitoring and survey along with date and time on photographs should be attached with the EIA report.



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13. Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
14. Ground water table data should be compared with data of Central Ground Water Board authorities nearest sampling point.
15. Water quality of all the villages within 10 k.m radius should be studied and result should be incorporated in final EIA report.
16. Since the mining site is in close proximity of city area hence atleast 08 stations should be selected for monitoring and results should be discussed in the EIA report.
17. PP would follow environmental extend rules.

7. **Case No. 3493/15 Shri Vishwas Parmani, Partner, M/s Associated Commerce, Sub Lessee, M.P. State Mining Corporation Ltd., Nehru Ward, Pipariya, Hoshangabad (MP)-466001. Prior E.C for approval of Sand Quarry in an area of 10.00 ha. (1,75,000 cum/year) at Khasra No.-126, Vill.-Raipur, Teh.-Hoshangabad, District-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, Vill.-Raipur, Teh.-Hoshangabad, District-Hoshangabad (MP) 10.00 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. As per list the 54 mines are in the cluster and total Area-731.791 ha including this mine.

Earlier this case was scheduled in 53<sup>rd</sup> SEAC-II meeting dated-13/10/2016 wherein it was recorded that:

*Please refer the minutes of 242<sup>nd</sup> SEAC meeting dated-07/11/2015 wherein TOR was approved*

*As per the above, the TOR was issued to the PP vide letter no. 737 dated 25/04/2016.*

*MP State Mining Corporation Limited, Bhopal vide their letter no.397 dated 09/08/2016 has also informed that it is a case of non-cluster as per GOI, MoEF&CC notification dated 01/07/2016 as this lease was sanctioned prior to the 09/09/2013. Concerned Mining Officer vide letter no.471 dated 29/07/2016 has issued a certificate stating that above lease was sanctioned vide order no. F4-1/2010/12/01 dated 22/09/2010 and thus does not falls under the perview of cluster approach as per GOI, MoEF&CC notification dated 01/07/2016.*

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

*Case was presented by PP and their consultant. During presentation, it was observed that PP has submitted a representation vide letter dated 06/09/2016 which was forwarded by SEIAA vide letter no. 3493/SEIAA/16 dated 12/09/2016. As per the representation, revised certificate is issued by the Conservator Forest, Hoshangabad, M.P., stating that Ratapani Abhayaran is at a distance of 9.20 kms (a Notified PA) from Khasra No. 126. Earlier TOR was issued to for this case on the basis of certificate issued by DFO, Hoshangabad, issued vide letter no. 3881 dated 15/04/2015 stating that no notified PA within 10 kms radius. Committee after deliberations decided that since revised certificate is issued by Conservator Forest, Hoshangabad, clearance from NBWL is therefore needed and thus PP was asked to apply online for NBWL clearance and a copy of the application may be submitted to SEAC for further appraisal of the project.*

SEIAA vide letter No.351 dated 08/05/2017 stating that “PP has submitted copy of DFO letter, MPSMC letter, Surface Plan & Contour Map and sent back case file back to SEAC for consideration which was placed before the committee.

The case was presented by the PP and their consultant wherein PP submitted that condition stipulated for “*to apply online for NBWL clearance*”, in the minutes of 53<sup>rd</sup> SEAC-II meeting dated-13/10/2016 should be deleted as in the recent certificate issued by DFO (letter no. 884 dated 28/04/2017) states that Ratapani Abhayaran is 13.375 meters away. Committee also observed that another letter attached with the representation submitted by PP issued by the DGM (Geology), Hoshangabad stating that Raipur Sand Mines are >10.00 Kms away from the Ratapani Abhyaran and revised co-ordinates of all these mines are obtained through GPS which are different from the previous co-ordinates. The committee further observed that revised DFO certificate is based on the revised co-ordinates issued by the DGM (Geology), Hoshangabad. Committee after deliberation recommends that since the recently another revised certificate is issued by the DFO based on the revised co-ordinates certified by the DGM (Geology), Hoshangabad stating that the lease is >10.00 kms away from the Ratapani Abhayaran, the condition stipulated for “*to apply online for NBWL clearance*”, in the minutes of 53<sup>rd</sup> SEAC-II meeting dated-13/10/2016 can be withdrawn and PP may be permitted to make presentation for EC without *online application for NBWL clearance* based on revised certificate issued by the DFO vide letter no. letter no. 884 dated 28/04/2017.

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During presentation it was observed through the Google image of December, 2016 that > 80% of the area is submerged in the river water and as per another Google image of April, 2016 lots of green area were observed. PP submitted that these agricultural activities are of seasonal crops such as water melons carried out by local residents of the nearby areas. Committee asked PP to submit revised production plan considering above issues of environmental concerns. PP submitted that along with the presentation they have prepared revised production plan which was placed before the committee for consideration. Committee observed that as per the revised production plan submitted by PP 3.522 ha area is available for mining leaving area submerged under water and safe zone. The approved depth as per the mine plan is 3.0 meters. Thus committee after deliberations decided that considering 3.522 ha area with 3.00 meters depth only 1,05,660 cum/year sand evacuation is possible. 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':

1. Production of Sand as per mine plan with quantity not exceeding 1,05,660 cum/year.
  2. 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.
  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.
8. **Case No. 3494/15 Shri Vishwas Parmani, Partner, M/s Associated Commerce, Sub Lessee, M.P. State Mining Corporation Ltd., Nehru Ward, Pipariya, Hoshangabad Prior E.C for approval of Sand Quarry in an area of 10.00 ha. (1,75,000 cum/year) at Khasra No.-126, Vill.-Raipur, Teh.-Hoshangabad, District-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, Vill.-Raipur, Teh.-Hoshangabad, District-Hoshangabad (MP) 10.00 Ha. The project requires prior EC before commencement of any activity at site.

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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. 564 dated: 13/06/2016 has reported that there are seven more mines operating or proposed within 500 meters around the said mine with total area 77.222 ha including this mine.

Earlier this case was scheduled in 54<sup>th</sup> SEAC-II meeting dated-14/10/2016 wherein it was recorded that: *in the minutes of 32<sup>nd</sup> SEAC meeting dated: 23/6/2016 wherein TOR was approved and as per the above, the TOR was issued to the PP vide letter no. 1115 date: 01/7/2016.*

*MP State Mining Corporation Limited, Bhopal vide their letter no.397 dated 09/08/2016 has also informed that it is a case of non-cluster as per GOI, MoEF&CC notification dated 01/07/2016 as this lease was sanctioned prior to the 09/09/2013. Concerned Mining Officer vide letter no.461 dated 29/07/2016 has issued a certificate stating that above lease was sanctioned vide order no. F4-1/2010/12/01 dated 22/09/2010 and thus does not falls under the perview of cluster approach as per GOI, MoEF&CC notification dated 01/07/2016.*

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

*Case was presented by PP and their consultant. During presentation, it was observed that PP has submitted a representation vide letter dated 06/09/2016 which was forwarded by SEIAA vide letter no. 3495/SEIAA/16 dated 12/09/2016. As per the representation, revised certificate is issued by the Conservator Forest, Hoshangabad, M.P., stating that Ratapani Abhayaran is at a distance of 9.20 kms (a Notified PA) from Khasra No. 126. Earlier TOR was issued to for this case on the basis of certificate issued by DFO, Hoshangabad, issued vide letter no. 3881 dated 15/04/2015 stating that no notified PA within 10 kms radius. Committee after deliberations decided that since revised certificate is issued by Conservator Forest, Hoshangabad, clearance from NBWL is therefore needed and thus PP was asked to apply online for NBWL clearance and a copy of the application may be submitted to SEAC for further appraisal of the project.*

SEIAA vide letter No.349 dated 08/05/2017 stating that “PP has submitted copy of DFO letter, MPSMC letter, Surface Plan & Contour Map and sent back case file back to SEAC for consideration which was placed before the committee.

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The case was presented by the PP and their consultant wherein PP submitted that condition stipulated for “*to apply online for NBWL clearance*”, in the minutes of 54<sup>th</sup> SEAC-II meeting dated-14/10/2016 should be deleted as in the recent certificate issued by DFO (letter no. 886 dated 28/04/2017) states that Ratapani Abhayaran is 11.003 meters away. Committee also observed that another letter attached with the representation submitted by PP issued by the DGM (Geology), Hoshangabad stating that Raipur Sand Mines are >10.00 Kms away from the Ratapani Abhyaran and revised co-ordinates of all these mines are obtained through GPS which are different from the previous co-ordinates. The committee further observed that revised DFO certificate is based on the revised co-ordinates issued by the DGM (Geology), Hoshangabad. Committee after deliberation recommends that since the recently another revised certificate is issued by the DFO based on the revised co-ordinates certified by the DGM (Geology), Hoshangabad stating that the lease is >10.00 kms away from the Ratapani Abhayaran, the condition stipulated for “*to apply online for NBWL clearance*”, in the minutes of 54<sup>th</sup> SEAC-II meeting dated-14/10/2016 can be withdrawn and PP may be permitted to make presentation for EC without *online application for NBWL clearance* based on revised certificate issued by the DFO vide letter no. letter no. 886 dated 28/04/2017.

During presentation it was observed through the Google image of December, 2016 that > 40% of the area is submerged in the river water and only 60% of the area (6.00 ha) on the eastern side is available for mining which is not in submergence. Since the approved depth as per mine plan 03 meters and approved production volume is 1,75,000 cum/year, committee decided that sanction volume of sand can be evacuated from this lease and no deduction is required. 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’:

1. Production of Sand as per mine plan with quantity not exceeding 1,75,000 cum/year.
2. 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.
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.

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7. No diversion of active channel should be allowed for mining.

**9. Case No.-5287/2016 Shri Mohiuddin Shaikh S/o Shri Ayazuddin Shaikh, Lease, R/O - 1, Moti Bungalow, Dewas – 455001. Prior Environment Clearance for Stone Quarry in an area of 9.00 ha. (20000 cum/year) at Khasra no.-772 & 774, Village-Surajpur, Tehsil - Shajapur, Dist. Shajapur (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-772 & 774, Village-Surajpur, Tehsil - Shajapur, Dist. Shajapur (MP) 09.00 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. 634 dated: 23/05/2016 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

Earlier this case was scheduled in 70<sup>th</sup> SEAC-II meeting dated-15/03/2017 wherein it was recorded that: *this case was discussed in 61<sup>st</sup> SEAC-II meeting dated 25/11/2016 wherein the case was returned to SEIAA for delisting assuming that PP is not interested to continue with the project as was absent in SEAC meetings. PP has submitted a letter dated 23.01.2017 showing his interest in presentation of his case before SEAC-II. Therefore SEIAA decided to relist the case and send the file to SEAC-II for appraisal.*

*Based on the above, the case was scheduled for presentation today. The case was presented by the PP and their consultant wherein during presentation as per the Google image January, 2017 based on the co-ordinates provided by the PP it was observed that installation of base structure (like wind mill or HT line) is seen within the lease area. PP was unable to explain about this structure. Thus committee after deliberations asked PP to submit the details of this structure with photographs and comments of Tehsildar about this structure/installation.*

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 give another 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.

**10. Case No.-5558/2017 Shri Jitendra Kanojiya, Vill. Shahpura, Tehsil & District Chhindwara MP – 480115 Prior Environment Clearance for Sand quarry in an area of 5.55 Ha. (4000**

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**cum per annum) (Khasra no. 439/3, 4, 5, 7) at Village- Badiwada, Tehsil -Chand, Dist. Chhindwara (MP).**

This is case of Badiwala Sand quarry (Pench River). The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 439/3, 4, 5, 7) at Village-Badiwada, Tehsil -Chand, Dist. Chhindwara (MP) 5.55 ha. The project requires Prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer through Ekal Praman-Patride letter no. 812 dated: 02/05/2017 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 during scrutiny of documents it was observed by the committee that sanctioned mining leases is in three parts (Khasra no. 439/5-7, 439/4 and 439/3) which is not contiguous in nature and also not in accordance with the MP MMR,1996 rule 04 (3). The committee also observed that single mine plan is prepared for the above leases. Earlier in cases of similar nature (please refer the minutes of 231<sup>st</sup> SEAC meeting dated 27/10/2015 and subsequent decision taken by SEIAA in its 327<sup>th</sup> meeting dated 05/05/2016) SEIAA has decided to close the case. The committee decided to forward this case to SEIAA for further considerations and necessary action.

**(Anil Kumar Sharma, Member)**

**(Mohd. Kasam Khan, Member )**

**(Rajendra Kumar Sharma, Member)**

**(Prashant Shrivastava, Member)**

**(Dr.Mohd. Akram Khan, Member)**

**(Dr.Sonal Mehta, Member)**

**(Dr. Navin Chandra, Chairman)**

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

Annexure- 'B'

### Standard conditions applicable for the sand Mine Quarries\*

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



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Annexure- 'C'

Standard conditions applicable for the Khodu Bharu sand Mine Quarries\*

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