

The 314<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) was held on 10<sup>th</sup> May, 2018 under the Chairmanship of Mohd. Kasam Khan for the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohd. Akram Khan, Member.
2. Dr. A. K. Sharma, Member.
3. Dr. Rubina Chaudhary, Member.
4. Dr. Sonal Mehta, Member.
5. Shri Prashant Srivastava, Member.
6. Shri R.Maheshwari, Member.

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

1. **Case No. - 5427/2015 Shri Udaya Bhaskar Gullapalli, Sr. Vice President, M/s Reliance Industries Ltd, Bldg. No. - 7, B Wing, 2nd Floor, Reliance Corporate Park, Thane Belapur Road, Navi Mumbai Proposed Expansion of Multipurpose Chemical Terminal from 20175 KL to 80080 at Khasra No. - Kolukhedi (1555, 319, 1561, 1559, 1440), Bhouri (518, 515, 516, 517, 1343, 411/1/4 & 514, 515, 516, 517, 1343, 411/1/2 & 514, 515, 516, 517, 1343, 411/1/1 & 514, 515, 516, 517, 1343, 411/ 1/3 & 514, 507, 510/2, 511/1/1, 6, 509/2, 508, 522/2/2, 510/1, 521/1/1, 509/1 and 508, 522/2/1/2, 508, 507, 522, 511/2/2/1, 510/2), Barkheda Salam (1525, 1524, 1441), Bakania (320, 315, 314, 317, 322, 306, 487, 316, 313), Barkheda (1521, 1530, 1538, 1518, 1529, 1528, 1517, 1527, 1526, 1531, 1523, 1537, 1393) Vill. – Bakaniya, P.O. Bhaunri, Teh. - Huzur, Distt.- Bhopal, (M.P.) Cat. - 6(b) Isolated Storage & handling of Hazardous Chemicals. EIA Consultant: Ultratech, Thane.**

The Proposed project is of Multipurpose Chemical Terminal (MCT), Bhopal of Reliance Industries Limited (RIL) falls under **Category B, schedule 6** as per the EIA notification 14th Sep, 2006. Hence it requires prior EC from SEIAA. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

Salient features of the project, proposed TOR and other details of the project were presented before the SEAC by the PP and his consultant, which reveals following:

- The Multipurpose Chemical Terminal (MCT), Bhopal of Reliance Industries Limited (RIL), was set up in year 2004 at Bakania, Huzur Taluka, Dist. Bhopal.
- The existing handling capacity of terminal is 20,175 KL. It also consist of truck loading gantry (8 bays) and railway siding facility.

- Receiving, Storing and Distribution of finished Petroleum Products (Class A and Class B).
- The Consent to Operate for the facility from MPPCB is valid till March, 2018
- RIL now proposes to increase the capacity of the terminal to 80,080 KL (operating capacity)
- Project: Expansion of Multipurpose Chemical Terminal from 20175 KL to 80080 KL.
- Project Cost: ~112 Crores
- Area: ~10.36 Ha within total plot area of ~80 Ha. No additional land required.
- Power: 33 KV from MPEB
- Back-up: DG Sets 3 x 325 kVA and 1 x 160 kVA for Emergency use
- Water: Purchase from local sources, supplied through tankers

<u>Purpose</u>	<u>Existing</u>	<u>Proposed</u>	<u>Remarks</u>
Fire Fighting Storage Capacity	6800 KL	13000 KL	Used only in emergency. Provision as per OISD 117
Service water & Domestic water req.	4 KL	25 KL	Max. Usage

### Product Slate

<b>Product</b>	<b>Existing Capacity (KL)</b>	<b>Proposed Capacity (KL)</b>	<b>Total Capacity after Expansion (KL)</b>
High Speed Diesel (HSD)/ Superior Kerosene Oil (SKO)	14,490	49,485	63,975
Motor Spirit	5,685	10,250	15,935
Ethanol	--	180	180
DG (kVA)	2x160	1,135 (3x325+1x160)	1,135

- Additional dispatch facilities: Eight (8) bay truck loading rack
- Manpower Requirement:

- ~150 people during construction (local people will be preferred)
- ~ 5 people during operation on continuous basis

This case was presented by the PP for issuing of TOR to carryout EIA studies with site specific details in 283<sup>rd</sup> SEAC meeting dated 27/10/2016. Committee after deliberations recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Since PP has named this project as “Chemical Storage Unit”, thus PP should submit a written commitment with EIA report that in this facility only petroleum product will be stored.
2. During presentation, PP informed that the environmental studies have been already carried out in the summer, 2016. Thus PP was asked to submit the details justification of selection of sampling points.
3. EIA studies should be carried out considering the proposed master plan of the Bhopal city.
4. Any natural drainage nearby the facility should be protected and the detailed protection plan from any spillage should be discussed in the EIA report.
5. PP should explore the possibility of shifting the proposed expansion facility further away from the existing facility so that a buffer zone can be created between both the facility and nearby bypass road/highway.
6. PP should provide the details of existing trees and plan for proposed green belt.
7. Details of the plans to meet out crises such as fire accident to be furnished & presented in the EIA report.
8. Details of existing on-site / Off-site emergency plan and the proposed modification in view of expansion to be submitted.
9. Details of existing Safe Guards (Environmental as well as safety) and the proposed augmentations to be presented in the report.
10. Study of the ground-water regime shall be incorporated in the EIA study.
11. Pre-dominant wind direction to be ascertained and accordingly the Safety & Environment Management Plans prepared and reported.
12. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.

PP vide letter dated 03/04/2018 has submitted the EIA report which was forwarded by the SEIAA vide letter no.41 dated: 06/04/2018, which was placed before the committee.

The EIA was presented by the PP and their consultant. Wherein, after presentation PP was asked to submit response on following:

1. NABL accreditation certificate of the lab from which analysis has been carried out along with copy of all the lab reports of Air, Water, Soil, and Noise provided by the laboratory shall be submitted as same are not annexed with the EIA report and analysis are performed by other laboratory.
2. QCI accreditation certificate of EIA Consultant M/s Ultratech, Thane as the annexed certificate was valid till February, 2018 and during presentation consultant informed that their certificate has been renewed.
3. Copy of land mutation document to be submitted by the PP.
4. During TOR presentation, PP has informed that they have already collected the data in the summer of 2015 (March, April & May) which will be supplemented by the data of 2016 and may be permitted to use summer, 2015 data. On perusal of EIA report it was observed that consultant has only discussed about the data of summer 2016 but details of summer, 2015 data and their interpretation with the data of 2015 is missing which should be provided.
5. 80% calm conditions in summer season are predicted in the meteorological data analysis in the EIA for which proper justification shall be provided.
6. Detailed layout map with dimensions of all the facilities proposed including tanks & other and their inter distance with the existing facilities and how they confirm to relevant standards.
7. Photographs confirming the statement of PP that entire loading and unloading area is leaked proof with RCC base and having slope towards RCC drain and catch pit.
8. Details of the expenditure made for CSR in previous year for these villages i.e. Bharkheda Salam, Bhoui and many more in the vicinity, during last 05 year is to be submitted..
9. Detailed water balance chart to be submitted.
10. Detailed break-up of EMP and CSR as suggested by the committee during presentation with its bifurcation in capital and recurring cost.
11. The cost of PPE's proposed should be added in the EMP and issue record for existing facility of PPE's to the workers shall be submitted.
12. Record of occupational health survey carried out in the existing facility shall be submitted and subsequently the cost of health survey for proposed facility shall be added in the EMP cost.
13. EMP for pre-construction, operational phase and post construction period should be submitted.
14. Layout with dimensions of the peripheral drainage system shall also be provided.
15. Commitment for Zero Liquid Discharge shall be provided with proposed measures so that no contaminant shall be discharge outside the periphery of the project as the area lies in the catchment of Upper Lake.
16. Rain water harvesting plan to be submitted by the PP.

17. Undertaking with documentary proof by the PP that panchayat tax is paid and issued rose by Gram Barkheda Salam as these issues were raised in the public hearing.

**2. Case No. - 5594/2017 M/s Nirmala Minerals, Pathak Ward, District - Katni, MP - 483501(SIA/MP/MIN/19497/2017) Prior Environment Clearance for Iron Ore Deposit in an area of 8.59 Ha.. (2,00,000 TPA) (Khasra no. 407/1 (old), 668/1 part (New)) at Village- Ghugharikala, Tehsil - Sihora, Dist. Jabalpur (MP) EIA Consultant: Aplinka Solutions & Technologies Pvt.Ltd.Noida Uttar Pradesh.**

This is case of Iron Ore Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 407/1 (old), 668/1 part (New)) at Village- Ghugharikala, Tehsil - Sihora, Dist. Jabalpur (MP) 8.59Ha. The project requires prior EC before commencement of any activity at site. PP has submitted ToR application forwarded by the SEIAA vide letter no. 1124 dated 10/11/2017.

The case was presented by the PP and their consultant in 298<sup>th</sup> SEAC meeting dated 17/11/2017 wherein following details of the project were submitted by them:

1	Name of the project & its location	Ghugharikala Iron Ore Deposit Village- Ghugharikala, Tehsil-Sihora, District-Jabalpur, State-Madhya Pradesh	
2	Name of the Company, Address Tele No. & E-mail :	<b>M/s Nirmala Minerals</b> Pathak Ward, Distt.- Katni (M.P.) Pin Code - 483501 Phone No. - 07622 - 403495 e-mail – amckatni@rediffmail.com	
3	Latitude and Longitude of the project	<b>Latitude</b>	23°22'31.9" to 23°22'40.1" N (West Block) 23°22'33.9" to 23°22'43.5" N (East Block)
		<b>Longitude</b>	80°10'11.5" to 80°10'23.3" E N (West Block) 80°10'24.2" to 80°10'34.1" E N (East Block)
4	If a Joint venture, the names & addresses of the JV partners including their share	Not applicable	
5	Project brief: nature of	Nature of proposal	New

	proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.	Total area-land use	8.59 Ha Waste Land
		Project components	The lease area is hilly having gentle slope towards north and SE direction. The highest elevation of the west block (Block-B) is 432m AMSL in NW and the lowest elevation is 408 m AMSL in SE. In the eastern block (Block-A), the highest elevation is 430m AMSL in mid of the area while the lowest elevation is 412m AMSL in south.
		Connectivity	The lease area is approachable from district headquarter Katni and Jabalpur on NH-7 via Sihora. Sihora is 38kms from Jabalpur and about 53kms from Katni. Sihora road, railway station situated on Jabalpur-Itarsi section of Central Railway is 2km from Sihora. The lease area is 12 km south-east of Sihora road railway station and 14 km SE of Sihora.
6	Whether the project is in the Critically Polluted Area (CPA):	No	
7	Cost of the project :	Rs 2.2 Crore	
8	Employment generated/to be generated	57	
9	Benefits of the project	The Iron ore of the lease area is suitable for sponge iron, cement & pellatisation plant. The Iron ore is proposed for sale to steel plants in country, cement plants in Madhya Pradesh & pellatisation units in M.P. and Chhattisgarh. It will not only provide employment to local populace but also benefit to the State in the form of Royalty and fund in district mineral foundation for use in CSR activity and development of the project located district. Also, the mine management will conduct medical camps at regular interval in the nearby villages and will help the nearby villages in providing infrastructure like school furniture, water tankers, etc.	

10	Whether new or expansion project .If expansion: i from ..... MT to ..... MT ii What is the % of expansion	It is new mining lease area.
11	If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006	Not applicable, It is new mining lease area.
12	If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEF	Not applicable
13	No. and Date of the ToR /and revised ToR, if any, letter issued by the authority	Not applicable
14	No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent)	Not applicable

15	If the project was considered in EAC, Pl. gives dates of the meeting (s)	Not applicable
16	Type of Mine: (Open cast/Underground /mixed)	Open Cast
17	Capacity of the mine applied for	2,00,000 TPA
18	ML Area i. As per block allotment ii. As per approved mine plan	8.59 Ha 8.59 Ha
19	Date of approval of mine plan, mine closure plan, status & date	Mining plan was approved vide letter MP/Jabalpur/Iron Ore/MPLN/G-07/16-17/3014, Jabalpur dated 26.12.2016
20	Date of Board's approval	Not applicable
21	Date of Ground water clearance	Not applicable
22	Date of mine closure approval	Mining plan was approved vide letter MP/Jabalpur/Iron Ore/MPLN/G-07/16-17/3014, Jabalpur dated 26.12.2016
23	Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details	<b>Water Bodies</b> <ul style="list-style-type: none"> <li>• Canal – 150 m in South</li> <li>• Water Tank – 2 km m in West</li> <li>• Hiran River -9.9 km in NW</li> <li>• Barne Nala – 4 km in West</li> <li>• Bhagela Nala- 5.5 km in NW</li> <li>• Morai Reservoir-4.8 kmin SW</li> <li>• Barne Reservoir – 6.4 Km in SW</li> </ul>



The case was presented by the PP and their consultant for the TOR in the 298<sup>th</sup> SEAC meeting dated 17/11/2017. Being it's a case of major mineral, it was decided to consider this case as B-1 category and committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Cumulative impact should be studied as proposed site is surrounded by other mines and sampling locations should be provided in the neighboring villages such as Ghughrikala, Dubyara and Agariya etc.
2. A canal is passing near the lease area thus its safety aspects should be addressed in the EIA report. Further no mine discharge should find its way in this canal.
3. Copy of order issued by the Upper Collector vide letter no. 56 dated 30/09/2015 and 57 dated 30/09/2017 as referred by the conservator forest in the letter no. 1917 dated 13/06/2017 should be submitted with the EIA report.
4. Environmental Cost Benefit analysis should be carried out and submitted with the EIA report.
5. Environmental Policy of the company issued by the director with environmental management cell should be submitted with the EIA report.
6. Issue like storm water management plan, mine water discharge, safety barrier zone with the neighboring mines etc. should be properly addressed in the EIA.
7. Details of afforestation done till date with name and number of species and proposed plantation scheme should be provided in EIA with supporting photographs.
8. A proposed worker facilitates and workers welfare scheme should be discussed in the EIA report with financial allocations.
9. Inventory of operating / proposed mines within 2 Km around the said mine.
10. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
11. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
12. Any alternate route avoiding the nearby habitations.
13. Land use plan should be plotted on the map.
14. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CSR cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
15. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
16. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.

17. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.

18. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.

PP vide letter dated 28/04/2018 has submitted the EIA report which was forwarded by the SEIAA vide letter no.176 dated: 03/05/2018, which was placed before the committee.

The case was presented by the PP and their consultant and during presentation following details was submitted by the PP:

**Indicated Mineral Reserve:**

Section Line	Sectional Area (sqm)	Influence (m)	Volume (m <sup>3</sup> )	Mineral Resource in tones
	A	B	C = A x B	D = C x B.D. (3.0) x 0.90 (Incidence)
A - A'	3365	83	279295	754097
B - B'	750	100	75000	202500
C - C'	50	83	4150	11205
D - D'	710	124	88040	237708
E - E'	1080	142	153360	414072
				1619582

**Water demand**

S.No.	Activity		Water requirement, KLD
1.	Dust suppression /allied mining activity	1. Approach road = ➤ Eastern Block- 550m*6m=3300m <sup>2</sup> ➤ Western Block 457m*6m=2742 m <sup>2</sup> 3300+ 2742= 6040* 1.2= 7248 lit 2. Haulage road ➤ Eastern Block -350m*6m= 2100 m <sup>2</sup> ➤ Western Block- 330 m*6m= 1980 m <sup>2</sup> 2100+ 1980=4080 m <sup>2</sup> * 1.2=4896 lit Basis = 1.2 lit / m <sup>2</sup> /day (Factor=0.4 L/	7248 lit /1000 = 7.2 KLD  4896/1000 = 4.8 KLD  Total = 12 KLD

		m <sup>2</sup> three times in a day)	
2.	Plantation	Green Belt Area(1.39ha) Plantation =1390 Sapling/13900 sq.m 1390*1.5=2955 Plantation @ 1000 tree/ha and Water requirement Factor= 1.5liter/ sapling	2955/1000=2.9 say 3.0 KLD
3.	Domestic	Manpower=57*45 lcpd=2565	3.0
	Total		18 KLD

**Traffic During Mine Operation:**

Sr. No.	Particular	M/s. Anand Mining Corporation	M/s. Nirmala Minerals
1.	Total Capacity of mine	1,78,510 TPA	2,00,000TPA
2.	No. of working days	300	300
3.	Extraction & Transportation of mineral	595 TPD	667 T/day
4.	Working hours per day	8 hrs	8 hrs
5.	Capacity of the dumpers /Truck	27 t.	27 t.
6.	Number of dumpers/trucks required /day	595/27=22.03 say 23	667/27 =24.70 say 25
7.	Daily truck movement (to & fro)	23 * 2 = 46 Truck	25*2=50 Truck

8	Hourly truck movement @ 8hr a day (22/8)	23/8=2.87 Say 3 no. (to & fro is 6)	25/8=3.1 Say 4 no. (to & fro is 8)
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**Year Wise CSR Budget**

S · N o	Activities	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	Total cost (in Rs)
1	Handpump Installation in Schools.	0/-	2,00,000/	2,00,000/ -	2,00,000 /	2,00,000/ -	8,00,000/-
2	Distribution of Mosquito nets; Blankets & Clothes to 150 homeless & poor people.	0/-	1,50,000/	1,50,000/ -	1,50,000 /	1,50,000/ -	6,00,000/-
3	Construction of water supply system and activities based on need based assessment.	0/-	2,00,000/	2,00,000/ -	2,00,000 /	2,00,000/ -	8,00,000/-
4	Water storage tank	5,00,000					
	Total Budget	5,00,000	5,50,000/	5,50,000/ -	5,50,000 /	5,50,000/ -	27,00,000

**Year Wise EMP Budget**

Particulars	Capital Cost	Recurring Cost/ year in Rs.
<b>Environmental Protection</b>		
Dust suppression (Fixed type Sprinkler) and by water tanker on approach road	12,00,000	4,00,000

Tarpaulin and cover for stack of ore	2,00,000	2,00,000
WBM road maintainence	5,00,000	50,000
PPE's	1,25,000	1,25,000
Environmental Monitoring	0	1,50,000
Garland Drain and settling tank etc(1600m x 2m x 1.5m) and settling tank etc (2 nos., size 552sqm x 3.5m) and Protective Bund	3,00,000	1,00,000
Green Belt	0	5,00,000
<b>Total</b>	<b>23,25,000</b>	<b>14,75,000</b>

After presentation and discussion PP was asked to submit following information:

1. During presentation PP informed that they have already planted approx. 500 saplings to act as a curtain wall on the northern side of the lease towards village. PP was asked to submit the inventory of these saplings.
2. Revised EMP and CSR as suggested by the committee during presentation.
3. Budget proposed for occupational health.
4. OB/waste management plan.

PP vide letter dated 10/05/2018 has submitted the reply of above raised queries which was placed before the committee and the same was found to be satisfactory.

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 for Iron Ore Deposit in an area of 8.59 Ha. (2,00,000 TPA) (Khasra no. 407/1 (old), 668/1 part (New)) at Village- Ghugharikala, Tehsil - Sihora, Dist. Jabalpur (MP).

**(A) PRE-MINING PHASE**

1. The lease boundary will be clearly demarcated at site with the given co-ordinates by pillars.

2. Necessary consents for proposed activity will be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. PP will also carry out fencing all around the lease area.
4. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
5. For dust suppression, regular sprinkling of water should be undertaken.
6. PP will obtain other necessary clearances/NOC from respective authorities.

### (B) MINING OPERATIONAL PHASE

7. No Blasting & drilling will be carried out.
8. Zero liquid discharge should be maintained.
9. Retaining wall along with drain shall be provided all around the down side of the hillock.
10. Settling tanks and pits shall be provided for proper settling time. The accumulated silt (containing silica also) shall be used for back filling and till than store in RCC lined tank.
11. Over Burden shall be used for the beneficial uses and shall not be stacked within or outside of the lease.
12. Approach road to the mine site shall be made pucca and be maintained properly by the PP to control fugitive emissions.
13. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of **8590** no's of trees will be planted along and within the ML. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
14. Transportation of material shall be done in covered vehicles.
15. Transportation of minerals shall not be carried out through forest area.
16. The OB till its utilization for backfilling shall be properly stacked as per approved mining plan and disposed off as per the submitted proposal. PP shall bound to compliance the final closure plan as approved by the DGM/IBM.
17. Following drain are suggested for management of mine discharge and runoff

➤ Eastern Block – 784 m X 2.0 m x 1.5m = 2352cum

➤ Western block - 812 m X 2.0m x 1.5m = 2436 cum

18. Following settling pit are suggested to control sedimentation problem

➤ Eastern Block:- 47m x 6m x 3.5m

➤ western block:- 45 m x 6 m x 3.5 m

19. Water sprinkling through tankers should be provided on Eastern Block, 350m\*6m= 2100 m<sup>2</sup> and Western Block, 330 m\*6m= 1980 m<sup>2</sup> haul road.

20. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.

21. The existing and proposed land use plan of the mine is as follows:

<b>Sr. No.</b>	<b>Particular</b>	<b>Existing</b>	<b>5<sup>th</sup> year end</b>	<b>Mine Life end</b>
1.	Total area excavated (broken)	0.20	2.10	6.62
2.	Area fully mined out (out of 1)	Nil	Nil	(6.62)
3.	Area fully reclaimed (Backfilled out of 2)	Nil	Nil	(6.62)
4.	Area rehabilitated out of 3 by afforestation	NA	Nil	(6.62)
5.	Area reclaimed by water harvesting	Nil	0	0.0
6.	Total area under dumps	Nil	0.80	Nil
7.	Area under active dumps (Out of 6)	Nil	0.80	Nil
8.	Area under mineral stack	Nil	0.25	Nil
9.	Area under Road	Nil	0.10	Nil
10.	Area under Green belt (i.e. plantation on area other than dump and backfilled area)	Nil	1.33	1.97
11.	Area under infrastructure	Nil	0.10	Nil
12.	Garland drain and settling tank	Nil	0.30	Nil
13.	Undisturbed area	8.39	3.61	Nil
	<b>Total</b>	<b>8.59</b>	<b>8.59</b>	<b>8.59</b>

22. Appropriate and submitted activities will be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
23. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
24. The commitments made in the public hearing will be fulfilled by the PP.
25. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
26. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

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

27. The proposed EMP cost is Rs. 23,25,000/year and Rs. 14,75,000/year are proposed as recurring expenses out of which Rs. 4.5 lacks is proposed for green belt development inclusive of green belt along transport road
28. Under CSR activity, Rs. 27.00 lacks /year are proposed in different activities and should be implemented through respective committees.
29. The environment policy of the company is framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP will be addressed in annual return.
30. A separate account will be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details will be provided in Annual Environmental Statement.
31. PP will be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
32. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.



**3. Case No. - 5603/2017 M/s Anand Mining Corporation, Pathak Ward, PO & District Katni, MP – 483501 Prior Environment Clearance for Iron Ore Deposit in an area of 8.26 Ha.. (1,78,510 TPA) (Khasra no. 407/1 (Old), 668/1 part (New)) at Village- Ghugharikala, Tehsil - Sihora, Dist. Jabalpur (MP) EIA Consultant: Aplinka Solutions & Technologies Pvt.Ltd.Noida Uttar Pradesh.**

This is case of Iron Ore Deposit. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 407/1 (old), 668/1 part (New)) at Village- Ghugharikala, Tehsil - Sihora, Dist. Jabalpur (MP) 8.26 Ha. The project requires prior EC before commencement of any activity at site. PP has submitted ToR application forwarded by the SEIAA vide letter no. 1210 dated 22/11/2017.

**Brief Description of Project**

- The area under reference is part of 310.76 acres area granted to Shri Vishambhar Prasad Pathak for 20 years period w.e.f. year 1960. The State Govt. vide its order dated 29.08.1968 canceled the mining lease and thrown open vide its notification dated 22.10.1971. The applicant applied for mining lease over 54.247 hecets. on 22.01.1984.
- The State Govt. later vide its letter dated 23.04.2005 consented to grant 30.756 hecets. area to M/s Anand Mining Corporation and rest 23.491 hecets. to M/s Nirmala Minerals. The Central Govt. vide its order no. 5/54/2005-M.IV dated 02.01.2008 granted approval under section 5(1) of MM (D & R) Act, 1957.
- The LOI (8.26 ha) granted by State Govt. vide its order dated 02.12.2016 and directed to submit approved mining plan.
- The mining plan has approved on 26/12/2016 by Regional Controller of Mines, Jabalpur.
- As per Section 10A (2) (c), MM(D&R) Amendment Act 2015 read with MCR 2016, ML area (8.26) lease period is 50 year i.e. from 6/01/2017 to 05/01/2067.

**Connectivity:-**

- NH-7, 10.95 km in WNW Direction.
- SH-22, 16.0 Km in SE
- Railway Station Gosalpur at 11.93 Km west
- Sihora Road – 11.90 Km NNW
- Sihora Town, 13.95 Km NW Direction

Construction, operation or decommissioning of the Project involving actions which will cause physical changes in the locality (topography, land use, changes in water bodies etc.)

- Topography of the core zone will get changed due to mining operation in the form of mine pits, surface dumps, haulage roads, infrastructural facilities, etc.
- Temporary site for temporary Office/rest shelter will be constructed.
- Labor housing will not be required.
- No Closure or diversion of existing transport routes or infrastructure as existing facilities is sufficient.
- No surface water body and perennial water body present in ML area. No diversion is proposed.
- No ground water intersection. The ultimate depth of mining is up to 10 m below from highest level.
- Out of 16 KLD water requirements, 13.0 KLD will be used for dust suppression and plantation. Source of water will be mine sump.

**Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):**

- **Land:** - Out of 8.26 ha ML area, excavated and green belt area will be 6.87 ha & 1.39 ha respectively. Excavated area (6.87 ha) will be backfilled (2.87 ha) and rehabilitated through plantation and remaining 4.0 ha area will be converted into water reservoir.
- **Water (KLD):-** 16.0 KLD water will be consumed. Dust suppression and plantation water requirement will be 10 KLD & 3KLD respectively. Domestic water requirement will be 3 KLD. Source:- Mine sump water & bore well water for domestic purpose.
- **Mineral (MT):-** Probable Mineral Reserve = 0.782271 MT  
Pre- Feasibility Mineral Resource = 0.187434 MT
- No other natural resources will be used such as timber, agriculture land etc.

**Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.**

- No explosive will be stored at site.
- Drilling and blasting is not proposed.
- Vulnerable groups of people such as hospital patients; children will not be affected by the project.

**Production of solid wastes during construction or operation or decommissioning (MT/month)**

- Till 5<sup>th</sup> year around 758 cum/month OB and mine waste will be generated. It will be gradually backfilled.
- Hazardous waste will not be generated.
- No agricultural waste; construction & demolition waste is involved in this project.
- No industrial process waste is involved in this project.
- Domestic wastewater will be discharged in septic tank followed by soak pit.

**Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)**

- Emissions from incineration of waste and burning of waste in open air are not applicable.
- Dust emissions from mining, handling and transportation are anticipated, which will be controlled through installing stationary water sprinklers at mine site.
- Vehicular emission will be controlled through regular maintenance & only PUC certified vehicles will be deployed at site.

**Generation of Noise and Vibration, and Emissions of Light and Heat:**

- Drilling and blasting is not proposed.
- Crushing operations are also not involved in it.

- Mining, transportation and mineral handling activity will be the source of Noise.

**Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:**

- Handling, storage, use or spillage of hazardous materials is not anticipated.
- No outside discharge or water overflows from mine.
- Domestic effluent will be discharged in septic tank/ soak pits.
- Surface run off will be collected in series of settling ponds and mined out pits.
- Garland drain followed by settling tank will be constructed around the mine lease within 7.5 m barrier zone.

**Risk of accidents during construction or operation of the Project, which could affect human health or the environment**

- No risk of explosions, spillages, fires etc from storage, handling, use or production of hazardous substances is envisaged.
- Personal protective equipments such as ear plug , safety boots, helmets and first aid facility will be provided at site.
- Mining will be carried out by as per applicable rules of MMR 1961, Mines Act-1952, Minerals (Other than Atomic and Hydro carbons Energy Minerals) Concession Rules, 2016, MCDR-1988.

**Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality**

- Beneficial impact on educational facilities of the area and socio-economic condition of local person connected to mine.
- Produced Iron ore is suitable for sponge iron, cement & pelletisation plant. The Iron ore is proposed for sale to these plants.
- At conceptual stage excavated area (6.87ha) will be rehabilitated by afforestation (2.87ha) and water reservoir (4.0 ha). The remaining 1.39 ha will be green belt area.

**PRE Feasibility Report**

<b>Salient Features</b>		<b>Details</b>
<b>Mining Method</b>		Opencast other than fully mechanized method.
<b>Mineral Reserve/Resource Present in mine lease area</b>		Probable Mineral Reserve = 0.782271 MT Pre- Feasibility Mineral Resource = 0.187434 MT Total reserve + resources= 0.969705 Million Ton
<b>Elevation of ML area</b>	Northern block	Highest elevation – 434 m A.M.S.L towards South direction. Lowest elevation – 410 m A.M.S.L in East direction.
	Southern block	Highest elevation – 428 m A.M.S.L mid of the area. Lowest elevation – 410 m A.M.S.L in North and SE direction.
<b>Bench Height &amp; Width</b>		Height – up to 6.0 m and Width- 6.0 m
<b>Ultimate depth of the mine</b>		10 m below from highest elevation.
<b>Life of Mine</b>		10 year
<b>Ground water table</b>		36 mbgl (369mRL) to 45mbgl (360mRL) (General GL- 405mRL)
<b>Road gradient</b>		Haul road:- 1 in 16 and on ramp 1 in 10
<b>Grade of Iron Ore</b>		Lumps: - 45 to 58 % and Fine – 45 % to 55 %. 90 % recovery of Iron ore.
<b>Man Power Requirement</b>		57 person
<b>No of Working days</b>		300
<b>Project cost</b>		Rs 220 lacs

**LANDUSE DETAIL**

Sl.No.	Particular	Existing	5 <sup>th</sup> year end	Conceptual Period
1	Total area excavated (broken)	0.25	2.31	6.87
2	Area fully mined out (out of 1)	Nil	Nil	(6.87)
3	Area fully reclaimed (Backfilled out of 2)	Nil	Nil	(2.87)
4	Area rehabilitated out of 3 by afforestation	NA	Nil	(2.87)
5	Area reclaimed by water harvesting	Nil	0	(4.0)
6	Total area under dumps	Nil	0.81	Nil
7	Area under active dumps	Nil	0.81	Nil
8	Area under mineral stack	0.25	0.25	Nil
9	Area under Road	Nil	0.10	Nil
10	Area under Green belt (i.e. plantation on area other than dump and backfilled area)	Nil	1.39	1.39
11	Area under infrastructure	Nil	0.10	Nil
12	Garland drain and settling tank	Nil	0.30	Nil
12	Undisturbed area	7.76	3.0	Nil

The case was presented by the PP and their consultant for the TOR in the 299<sup>th</sup> SEAC meeting dated 07/12/2017. Wherein it was recorded that: Being it's a case of major mineral, it was decided to consider this case as B-1 category and committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Cumulative impact should be studied as proposed site is surrounded by other mines and sampling locations should be provided in the neighboring villages such as Ghughrikala, DUBYARA and Agariya etc.

2. A canal is passing near the lease area thus its safety aspects should be addressed in the EIA report. Further no mine discharge should find its way in this canal.
3. Copy of order issued by the Upper Collector vide letter no. 56 dated 30/09/2015 and 57 dated 30/09/2017 as referred by the conservator forest in the letter no. 1917 dated 13/06/2017 should be submitted with the EIA report.
4. Environmental Cost Benefit analysis should be carried out and submitted with the EIA report.
5. Environmental Policy of the company issued by the director with environmental management cell should be submitted with the EIA report.
6. Issue like storm water management plan, mine water discharge, safety barrier zone with the neighboring mines etc. should be properly addressed in the EIA.
7. Details of afforestation done till date with name and number of species and proposed plantation scheme should be provided in EIA with supporting photographs.
8. Proposed workers facilitate and workers welfare scheme should be discussed in the EIA report with financial allocations.
9. Inventory of operating / proposed mines within 2 Km around the said mine.
10. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
11. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
12. Any alternate route avoiding the nearby habitations.
13. Land use plan should be plotted on the map.
14. Photos of lease boundary pillars with co-ordinates and fencing should be submitted with EIA report.
15. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CSR cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
16. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
17. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
18. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
19. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.

PP vide letter dated 28/04/2018 has submitted the EIA report which was forwarded by the SEIAA vide letter no.178 dated: 03/05/2018, which was placed before the committee.

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

1	Name of the project & its location	Ghugharikala Iron Ore Deposit in an area 8.26 ha (1,78,510 TPA), Khasara No. 407/1 (old), 668/1 part & 668/5(new), Village-Ghugharikala, Tehsil- Sihora, Distt. - Jabalpur, State - Madhya Pradesh			
2	Name of the Company, Address Tele No. & E-mail :	M/s. Anand Mining Corporation Pathak Ward, PO & District - Katni, MP – 483501			
3	Latitude and Longitude of the project		<b>Latitude</b>	<b>Longitude</b>	
		North Block (4.11ha)	23°22'39.0"to 23°22'44.4"N	80°10'33.1"to 80°10'48.0" E	
		South Block (4.15 ha)	23°22'22.7" to 23°22'32.8"N	80°10'46.3"to 80°10'54.7" E	
4	If a Joint venture, the names & addresses of the JV partners including their share	Not applicable			
5	Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.	Nature of proposal		New	
		Total area- land use		8.26 ha. Waste Land	
		ML Area Elevation	Northern (4.11ha) block	Highest elevation - 434 m A.M.S.L towards South. Lowest elevation - 410 m A.M.S.L in East	
			Southern (4.15ha)block	Highest elevation - 428 m A.M.S.L mid of the area. Lowest elevation - 410 m A.M.S.L in North and SE	
Connectivity		<ul style="list-style-type: none"> <li>• The lease area is approachable from district headquarter Katni and Jabalpur on NH-7 via Sihora. Sihora is 38 kms from Jabalpur and about 53 kms from Katni.</li> <li>• Sihora is approx. 13.95 km in NW from ML area.</li> <li>• Jabalpur Airport is approx. 24.75 Km in SW from ML area.</li> <li>• NH-7 is approx. 10.95 Km in WNW direction from ML area.</li> <li>• Gosalpur railway station is approx. 11.93 Km in west from ML area.</li> </ul>			
6	Whether the project is in the Critically Polluted Area (CPA):	No			
7	Cost of the project :	Rs 2.20Crores			
8	Employment generated/to be	57			



	generated	
9	Benefits of the project	The area surrounding the mining site is economically backward. The project will give direct employment to 57 persons and indirect employment to another 50 persons. Local people will be preferred for providing job opportunity. Out of excavated area (6.87 ha), 2.87 ha area will be backfilled followed by stabilization through plantation. About 1390 number of trees will be planted over green belt area (1.39 ha), while 2870 sapling on excavated area for reclamation. Remaining excavated area will be converted as water reservoir (4.0 ha) at final closure. It will also be used for Pisciculture purpose; Source of irrigation in nearby agriculture field; Source of artificial ground water recharge.
10	Whether new or expansion project .If expansion: i from ..... MT to ..... MT ii What is the % of expansion	It is new mining lease area.
11	If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006	Not applicable, It is new mining lease area.
12	If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEF	Not applicable
13	No. and Date of the ToR /and revised ToR, if any, letter issued by the authority	ToR letter No. 01/PS-MS/MPPCB/SEAC/TOR (299)/2017 dated 02.01.2018.
14	No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent)	Not applicable
15	If the project was considered in EAC, Pl. gives dates of the meeting (s)	Not applicable
16	Type of Mine: (Open cast/Underground/mixed)	Open Cast
17	Capacity of the mine applied for	1,78,510 TPA
18	ML Area iii. As per block allotment iv. As per approved mine plan	8.26 Ha 8.26 Ha
19	Date of approval of mine plan, mine closure plan, status & date	Mining plan was approved from IBM - Jabalpur dated 26/12/2016.
20	Date of Board's approval	Not applicable
21	Date of Ground water clearance	Not applicable
22	Date of mine closure approval	Mining plan was approved from IBM - Jabalpur dated 26/12/2016.

23	Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details	<b>Water Bodies</b> <ul style="list-style-type: none"> <li>• Canal -110 to 150 m in between the two blocks of the ML area</li> <li>• Barne Nala 4.2 km W</li> <li>• Hagni Nala 4.4 km NE</li> <li>• Morai Reservoir 5.5 km NE</li> </ul>
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**Water Demand Chart:**

S. No.	Activity	Calculation	Water requirement, KLD
1.	Dust suppression /allied mining activity	1. Area of Road between two block = $1,850 \text{ m} * 6\text{m} = 11100\text{m}^2 * 1.2 \text{ lit/day} = 13320 \text{ lit}$ 2. Approach road = ➤ AMC-north- $120\text{m} * 6\text{m} = 720\text{m}^2$ ➤ AMC-South- $130 \text{ m} * 6\text{m} = 780\text{m}^2$ $720 + 780 = 1500 \text{ m}^2 * 1.2 = 1800 \text{ lit}$ 3. Haulage road ➤ AMC-north- $584\text{m} * 6\text{m} = 3504\text{m}^2$ ➤ AMC-South- $334\text{m} * 6\text{m} = 2004\text{m}^2$ $3504 + 2004 = 5508\text{m}^2 * 1.2 = 6609.6 \text{ lit}$ Basis = $1.2 \text{ lit} / \text{m}^2/\text{day}$ (Factor=0.4 L/ $\text{m}^2$ three times in a day)	$13320 \text{ lit} / 1000 = 13.32 \text{ KLD}$ 1. $1800/1000 = 1.8 \text{ KLD}$ 2. $6609.6/1000 = 6.6 \text{ KLD}$ Total = $21.72 \text{ KLD}$ say 22 KLD
2.	Plantation	Green Belt Area(1.39ha) Plantation = 1390 Sapling/13900 sq.m Plantation @ 1000 tree/ha and Water requirement Factor= 1.5liter/ sapling	$2085/1000 = 2.0 \text{ KLD}$
3.	Domestic	Manpower= $57 * 45 \text{ lpcd} = 2565$	$2565 \text{ lit} / 1000 = 2.5 \text{ KLD}$ Say 3 KLD
	Total		27 KLD

**Cumulative Traffic Details:**

Sr. No.	Particular	M/s. Anand Mining Corporation	M/s. Nirmala Minerals
1.	Total Capacity of mine	1,78,510 TPA	2,00,000 TPA
2.	No. of working days	300	300
3.	Extraction & Transportation of mineral	595 TPD	667 T/day
4.	Working hours per day	8 hrs	8 hrs
5.	Capacity of the dumpers /Truck	27 t.	27 t.

6.	Number of dumpers/trucks required /day	595/27=22.03 say 23	667/27 =24.70 say 25
7.	Daily truck movement (to & fro)	23 * 2 = 46 Truck	25*2=50 Truck
8	Hourly truck movement @ 8hr a day (22/8)	23/8=2.87 Say 3 no. (to & fro is 6)	25/8=3.1 Say 4 no. (to & fro is 8)

**Year Wise CSR Budget**

S. No	Activities	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	Total Cost (in Rs)
1	Hand pumps Installation in Schools.	0/-	2,00,000/-	2,00,000/-	2,00,000/-	2,00,000/-	8,00,000/-
2	Distribution of Mosquito nets; Blankets & Clothes to 150 homeless & poor people.	0/-	1,50,000/-	1,50,000/-	1,50,000/-	1,50,000/-	6,00,000/-
3	Construction of water supply system and activities based on need based assessment.	0/-	2,00,000/-	2,00,000/-	2,00,000/-	2,00,000/-	8,00,000/-
4.	Financial aid for English medium school.	14,52,000					
	Total Budget	14,52,000	5,50,000/-	5,50,000/-	5,50,000/-	5,50,000/-	35,52,000/-

**Year Wise EMP Budget**

Particulars	Capital Cost	Recurring Cost/ year in Rs.
<b>Environmental Protection</b>		
Dust suppression (Fixed type Sprinkler) and by water tanker on approach road	12,00,000	4,00,000

Tarpaulin and cover for stack of ore	2,00,000	2,00,000
Environmental Monitoring	0	1,50,000
WBM road maintainence	20,00,000	1,00,000
PPE's	1,25,000	1,25,000
Garland Drain and settling tank etc (1692m x 2m x 1.5m) and settling tank etc (2 nos., size 45 x 6 x 3.5) and Protective Bund	3,00,000	1,00,000
Green Belt	0	4,50,000
Total	38,25,000	15,25,000

After presentation and discussion PP was asked to submit following information:

1. During presentation PP informed that they have already planted approx. 500 saplings to act as a curtain wall on the northern side of the lease towards village. PP was asked to submit the inventory of these saplings.
2. As per the proposal submitted by PP during presentation that approx. 4.00 ha area will be developed as water reservoir. PP was asked to provide capacity of this reservoir.
3. Revised EMP and CSR as suggested by the committee during presentation.
4. Budget proposed for occupational health.
5. OB/waste management plan.

PP vide letter dated 10/05/2018 has submitted the reply of above raised queries which was placed before the committee and the same was found to be satisfactory.

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 for Iron Ore Deposit in an area of 8.26 Ha. (1,78,510TPA) (Khasra no. 407/1 (old), 668/1 part (New)) at Village- Ghugharikala, Tehsil - Sihora, Dist. Jabalpur (MP).

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

1. The lease boundary will be clearly demarcated at site with the given co-ordinates by pillars.

2. Necessary consents for proposed activity will be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. We will also carry out fencing all around the lease area.
4. If any tree uprooting is proposed necessary permission from the competent authority will be obtained for the same.
5. For dust suppression, regular sprinkling of water will be undertaken.
6. PP will obtain other necessary clearances/NOC from respective authorities.

#### (B) MINING OPERATIONAL PHASE

7. Drilling and blasting is not proposed.
8. Zero liquid discharge should be maintained.
9. Retaining wall along with drain will be provided all around the down side of the hillock
10. Settling tanks and pits will be provided for proper settling time. The accumulated silt (containing silica also) will be used for back filling and till than store in RCC lined tank.
11. Over Burden will be used for the beneficial uses and will not be stacked within or outside of the lease.
12. Approach road to the mine site will be made pucca and be maintained properly by the PP to control fugitive emissions.
13. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of **8260** no's of trees will be planted along and within the ML. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
14. Transportation of material will be done in covered vehicles.
15. No forest area involvement.
16. The OB till its utilization for backfilling shall be properly stacked as per approved mining plan and disposed off as per the submitted proposal. PP shall bound to compliance the final closure plan as approved by the DGM/IBM.
17. Following drain are suggested for management of mine discharge and runoff
  - North Block – 912 m X 2.0m X 1.5 m = 2736 m<sup>3</sup>

➤ South Block- 780 m X 2.0m X 1.5 m =2340 m<sup>3</sup>

18. Following settling pit are suggested to control sedimentation problem  
Settling of 45 x 6 x 3.5 will be constructed in both the blocks.
19. Water sprinkling through tankers should be provided on north block-584m\*6m=3504 m<sup>2</sup> and Southblock-334m\*6m=2004m<sup>2</sup> haul road.
20. All garland drains will be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
21. The existing and proposed land use plan of the mine is as follows:

Sr.	Particular	Existing	5 <sup>th</sup> year end	Mine Life end
1.	Total area excavated (broken)	0.25	2.31	6.87
2.	Area fully mined out (out of 1)	Nil	Nil	(6.87)
3.	Area fully reclaimed (Backfilled out of 2)	Nil	Nil	(2.87)
4.	Area rehabilitated out of 3 by afforestation	NA	Nil	(2.87)
5.	Area reclaimed by water harvesting	Nil	0	(4.0)
6.	Total area under Dump	Nil	0.81	Nil
7.	Area under active dumps	Nil	0.81	Nil
8.	Area under mineral stack	0.25	0.25	Nil
9.	Area under Road	Nil	0.10	Nil
10.	Area under Green belt (i.e. plantation on area other than dump and backfilled area)	Nil	1.39	1.39
11.	Garland drain and settling tank	Nil	0.30	Nil
12.	Undisturbed area	7.76	3.0	Nil
	Total	8.26	8.26	8.26

22. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.

Further any need base and appropriate activity may be taken up in coordination with local panchayat.

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

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

27. The proposed EMP cost is Rs. 38,25,000/ year and Rs. 15,25,000/year are proposed as recurring expenses out of which Rs. 4.50 lacks is proposed for green belt development inclusive of green belt for plantation in the proposed EMP of this project.
28. Under CSR activity, Rs. 36,52,000 /year are proposed in different activities and will be implemented through respective committees.
29. The environment policy of the company will be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
30. A separate account will be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
31. PP will be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
32. The validity of the EC will be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit will require a fresh Environment Clearance.

**4. Case No. - 5612/2017 M/s Bhaskar Venkatesh Products Pvt. Ltd (Unit-II), Bhawani Complex, 35, Hanumanganj, Jumerati, Bhopal, (M.P.) 1238dated 01-12-17. Rec. dt. 05/12/17. Prior Environment Clearance for Manufacturing of Acid Slurry**

**(LABSA) and Spent Acid - by product at Plot No. 70, Village- Kajipalasia (Khudel), Tehsil - Indore, Distt.- Indore (M.P.) Cat. - 5 (F).**

The project is covered under the provisions of EIA Notification as item no. 5(f), hence it requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project site.

PP and their consultant presented the case for ToR before the SEAC in 302<sup>nd</sup> meeting dated 22/12/2017 wherein it was recorded that: the submissions and the presentation made by the PP and his consultant revealed following:

- The Acid Slurry (LABSA 100%) project is proposed within the existing Premises of Detergent unit with capacity of 9000 TPA and By product i.e. Spent Acid 7500TPA at Village-Kajipalasiya Tehsil-Indore Dist.- Indore (MP).
- The project is proposed by M/s Bhaskar Venkatesh Products Pvt. Ltd. which is occupied by Shri Akash Goyel.
- **BHASKAR VENKATESH PRODUCTS PVT. LTD.** is a joint venture company of DAINIK BHASKAR GROUP and ANANT GROUP.
- **BHASKAR VENKATESH PRODUCTS PVT. LTD** came into existence on 12th May 2006 and entered into edible SALT market with the brand name BHASKAR. During its expansion period, we have launched the FMCG items i.e. ATTA and DETERGENT under the brand name of TAN MAN.
- Linear alkyl benzene (LAB), the material used to produce LABSA, is derived exclusively from petroleum bi-products--benzene and paraffin derived from kerosene. LAB currently represents the active ingredients in detergents worldwide.
- LABSA eliminates dirt by its physicochemical mechanism and it is one of the surfactants most widely used in liquid cleaners and in powder. LABSA has been used for more than 45 years in the manufacture of detergents and it is known for its excellent quality/price ratio.

**Project at a Glance**

Site Address	Village-Kajipalasiya, Tehsil-Indore,Dist.-Indore (M.P.)
Production Capacity	Linear Alkaline Sulfonic Acid(LABSA)-9000 MTPA Spent Acid(By Product)- 7500 MTPA
Cost of Project	17 Crore
Raw Material Requirement	Linear Alkaline benzene (LAB)-6000 MTPA Sulphuric Acid(H <sub>2</sub> SO <sub>4</sub> )-9000 MTPA



	Water -1500 MTPA
Fuel	Diesel: 12Lit/Hr for one D.G. Set For Capacity of 100 KVA
Net fresh Water Requirement	The water requirement for proposed unit will be 04 KLD and total requirement for existing and proposed unit will be 12 KLD, whereas domestic requirement will be about 15 KLD. The water is/will be supplied by the tankers.
Power Requirement	350 HP
Capital Cost for Environmental measures ( proposed )	15 Lacs
Proposed area for plantation	18426 Sq.mt.
Existing area of plantation	1535 Sq.mt.
Alternative Source of Power	DG set of 100 KVA
Land acquired	The Total land area available with the unit is 37452.1 sq.mt. Out of that 9254 sq.mt. Land is required for the proposed LABSA plant.
Solid /Hazardous waste Generation	No solid waste Generation in our process.
Nearest Highway	Nemawar Road (NH-59) -0.14 km
Nearest Railway Station	Indore- 17 km
Nearest Airport	Indore -23 km
Nearest Forest/ Sanctuary/Eco-sensitive zone.	No Such Areas within 10 km radius

**Land Use of the Proposed Site**

<b>Particulars</b>	<b>Total Area (Sq.mt.)</b>
<b>Total Land Area</b>	<b>37452.1</b>
Shed Area	5400
Slurry plant area	732
Office area	2600
Toilet	50
Labour	472
<b>Land Required for Proposed Unit</b>	<b>9254</b>
Open Space 1 Area	18,426
Open Space 2 Area	1490
Open Space 3 Area	45
Open Space 4 Area	1,000
<b>Total 22,556 Sq.mt. (60.2%)</b>	

The committee after deliberations decided to issue standard TOR prescribed by MoEF&CC with following additional TORs:

1. During presentation it was observed by the committee that near the LABSA proposed site some under construction civil structures were seen for which PP submitted that these are upcoming staff quarters. For safety purpose committee suggested that these staff quarters should be relocated at a safe distance from the LABSA plant and same should be discussed in the EIA report.
2. Management and disposal of hazardous wastes should be addressed in the EIA report.
3. Transportation and traffic management should be provided in the EIA report.
4. Risk assessment Plan and Disaster Management Plan should be discussed in the EIA report.
5. Justify in EIA report how zero discharge will be maintained.
6. Justify in EIA report wrt to available space and proposed machinery for the new plant and other facilities. (Landuse)
7. Green belt plan with name of species, their numbers on layout map should be provided with the EIA report.
8. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CSR cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
9. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
10. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
11. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
12. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.

PP vide letter dated 08/03/2018 has submitted a representation which was forwarded by SEIAA vide letter no. 1996/SEIAA/18 dated 23/03/2018 stating that now as per the OM No. F-22-76/2017-IA-III dated 13/02/2018 MoEF&CC has categorized all the LABSA project as B2 category and this representation was placed before the committee in the SEAC 313<sup>th</sup> Meeting dated 18/04/2018. On perusal of the OM committee decided that PP may be asked to submit

EMP satisfying the criteria laid down in the OM No. F-22-76/2017-IA-III dated 13/02/2018 for consideration of the project as B2 category.

The case was presented by the PP and their consultant wherein PP submitted that the proposal is for manufacturing for LABSA (9000 TPA) the water requirement is only 4.00 KLD and no fuel is required for sulphonation LAB with sulphuric acid in batch reactors and thus considering the OM No. F-22-76/2017-IA-III dated 13/02/2018 issued by the MoEF&CC EMP has been prepared and case may be considered as B-2. After presentation PP was asked to submit response on following:

1. Revised EMP incorporating the cost of online sensor.

PP vide letter dated 10/05/2018 has submitted the reply of above queries which was found satisfactory and acceptable to the committee. Hence the case was recommended for grant of prior EC subject to the following special conditions:

1. The EC shall be valid for production of LABSA and Detergent Liquid Soap Manufacturing at plot no. 70 Village Kajipalasiya, (Khudel) Tehsil- Indore as follows:

S. No.	Name of Product	Quantity (MTPM)
1.	Linear Alkyl Benzene Sulphonic Acid (LABSA)	9000
<b>By Product</b>		
1.	Dil. Sulphuric Acid (70-80%)	7500

**(A) PRE-CONSTRUCTION PHASE**

2. During any construction/plant erection activity, proper curtaining of site should be carried out to protect nearby areas.
3. For dust suppression, regular sprinkling of water should be undertaken.
4. PP will obtain other necessary clearances/NOC from respective authorities.
5. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

**(B) CONSTRUCTION PHASE**

6. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.

7. Fire extinguishers should be provided on site during construction/ plant erection period.
8. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
9. Waste construction material should be recycled as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
10. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 18426 Sq.mt. area will be developed as green belt. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
11. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
12. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.

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

13. Total water requirement for the project (existing & expansion) shall not exceed 12 KLD for industrial and 15 KL for domestic use.
14. The domestic waste water 12 KLD should be treated in STP
15. No industrial effluent from the unit shall be discharged outside the plant premises and Zero discharge shall be maintained. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom and data connectivity must be provided to the MPPCB's server for remote operations.
16. Hazardous wastes should be disposed off as per the authorization issued by MP Pollution Control Board.
17. Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
18. An integrated sensor based alarm system shall be provided by the PP to indicate any leakage of sulphuric acid from process and storage tanks. Automatic smoke, heat detection system should also be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
19. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be

- structurally sound and chemically compatible with wastes. An acid proof dyke wall shall also be provided all around the storage area.
20. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.
  21. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.
  22. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
  23. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
  24. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
  25. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
  26. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.
  27. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended, the Public Liability Insurance Act for handling of hazardous chemicals, Plastic Waste Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016 etc.
  28. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.
  29. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
  30. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.

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

31. The proposed EMP cost is Rs 34.72 lacks and Rs. 9.24 lacks/year are proposed as capital and recurring expenses out of which Rs 6.22 lacks is proposed for green belt development and Rs. 1.65 lacks /year for recurring expenses for plantation in the proposed EMP of this project.

32. Under CSR activity, Rs. 4.50 lacks are proposed for the next 05 years in different activities and should be implemented through respective committees.
33. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell.
34. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
35. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
36. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
37. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

**5. Case No. – 5675/2018 M/s Triveni Lime, Village - Padrehi, Tehsil - Vijayraghogarh, DIst. Katni, MP – 483501) Prior Environment Clearance for Limestone Mine in an area of 4.770 Ha. (98972 MT per annum) (Khasra no. 91, 92, 93) at Village - Padrehi, Tehsil - Vijayraghogarh, DIst. Katni, MP – 483501.**

This is case of Limestone Mine. The proposed site is located at (Khasra no. 91, 92, 93) at Village - Padrehi, Tehsil - Vijayraghogarh, DIst. Katni, MP - 483501 (MP) 4.770 Ha. The project requires prior EC before commencement of any activity at site. PP has submitted ToR application forwarded by the SEIAA vide letter no. 119 dated 01/5/2018.

PP has submitted following project details:

Name of the Project	Padrehi Limestone Mine of M/s M/s. Triveni Lime
Lease Area	4.770 Hectare
Khasra No./Compartment no.	91, 92, 93 – Private Land
Village	Padrehi
Tehsil & District	Vijayraghogarh & Katni
Toposheet no.	No. 63 D/12
Project Co-ordinates	Latitude: 24° 6'0.06" N to 24° 6'2.17"N Longitude: 80°41'17.38"E to 80°41'17.87"E
Production Capacity	Limestone- 98972 MT/Year
Lease Period	02/03/1982 to 01/03/2032

LAST PROPOSAL PERIOD	2013-14 TO 2017-18
Proposal Period	2018-19 TO 2022-23
Laps Period	NIL
IBM REGISTRATION NO.	IBM/6189/2011
MINE CODE	38MPR47032
State order vide letter No.	F-3/153/89/12/2 dated 14/03/1990
Occupancy	Existing Mine
Nearest Highway	State Highway – 11 is 14.22 Km away from the mine site towards East Direction.
Nearest Railway Station	Jukehi Railway Station is 17 Km from the mine site
Nearest Airport	Jabalpur Airport is 129 Km from the mine site

The case was presented by the PP and their consultant. Wherein committee after deliberations decided that being it's a case of Limestone Mine and falls under B-1 category standard TOR prescribed by the MoEF&CC may be issued for conducting the EIA with following additional TORs and as per conditions mentioned in Annexure-D:-

1. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
2. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
3. Transportation plan & traffic management plan should be discussed in the EIA report.
4. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
5. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
6. Compliance of consent conditions duly authenticated by concerned Regional Officer, MP Pollution Control Board.
7. Year wise details of minerals already excavated till date should be submitted with EIA report.
8. Commitment of PP that no production since 2006 shall also be attached with the EIA report.
9. Level of mechanization should be discussed in the EIA report.
10. Hydro geological study should be carried out if ground water intersection is proposed.
11. Top soil management plan should be addressed in EIA report.
12. Input data of modeling should be addressed in EIA along with this all back up calculation.
13. Onsite pictures of monitoring and survey along with date and time on photographs should be attached with the EIA report and monitoring should be conducted in consultation with the regional officer of the MP Pollution Control Board.

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 Km radius should be studied and result should be incorporated in final EIA report.
17. Since the mining site is in close proximity of city area hence at least 08 stations should be selected for monitoring and results should be discussed in the EIA report.
18. PP would follow environmental extend rules.

**6. Case No. - 5485/2016 Chief Executive Officer, Katni Development Authority, National Highway Road, 07, Dugadi Nala, Katani (M.P.)- 483504 Katni Integrated Township Project Promoted by: Katni Development Authority Katni , Khasra No. 691, 692, 699, 700, 703, 704, 705/1, 722/1 K, 722/1, KH & 723. Village – Jhijuri, National Highway Road, Tehsil – Katni, District-Katni (MP), Total Plot Area – 8,56,000 sqm. Cat. 8 (b) Case. For- Building Construction. Cat. 8 (b) Township and area development Projects. EIA Consultant: M/s Eco Pro Engineers Pvt.Ltd, Ghaziabad.**

### **Project Description**

The proposed project is for development of integrated township which will comprise of development of residential plots (3,38,746.24 Sq. mt.), group housing area (11,526.24 Sq. mt.), commercial areas (39,342.94 Sq. mt.) and amenities like bank (2561.39 Sq. mt.), police chowki (1153.93 Sq. mt.), health centre (3,580.50 Sq. mt.), hospital (13,626.07 Sq. mt.), community hall and library (5,173.33 Sq. mt.), nursery, primary & high schools (16651.7 Sq. mt.).

### **Location of the project**

Katni Development Authority, Katni has proposed to set up integrated township at Khasra Nos. 691, 692, 699, 700, 703, 704, 705/1, 722/1 K, 722/1 KH & 723 Village- Jhijhri, Tehsil - Katni, District - Katni, State – Madhya Pradesh.

The need of proposed project is quite eminent as it will:

- Increase the infrastructure of the area.
- Provide healthy, aesthetic and safe premises.
- Provide a better living to the people along with amenities like commercial buildings, schools, health care facilities, banking facility, police chowki etc.



Earlier this case was presented by the PP and their consultant in 286<sup>th</sup> SEAC Meeting dated 28/01/2017 for issuance of TOR to carryout EIA studies with site specific details. During presentation it was informed to the PP that they have not submitted the declaration regarding no construction/developmental activities undertaken by them at site and DFO letter regarding distance from nearest Forest, National Parks and Sanctuary should be submitted with EIA report. Committee also recommends that site visit may be undertaken and additional TOR (if any) may be issued after the site visit. PP informed that they are carrying the declaration and submitting the same. Committee after deliberations recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Inventory of existing trees on the site and their management plan should be submitted with EIA report.
2. Drainage pattern of the area with Environmental Management Plan on nearby drains should be discussed in the EIA report.
3. One monitoring station should be established near the forest area reported to be 4.72 kms away from the site as per Form-1.
4. Worst case scenario should be studied and calculated on the basis of maximum possible FAR which can be utilized by the owners for all the facilities such as water demand, waste water treatment, MSW generation and disposal etc.
5. The site visit will be carried to see site conditions specially the proximity of river, site drainage etc, after which additional ToR may be issues, if necessary.

PP has submitted the EIA Report vide letter no. 4347 dated 22/02/2017 which was forwarded by SEIAA to SEAC vide letter no. 1570 dated 22/01/18

EIA was presented by the PP and their Consultant in the 308<sup>th</sup> SEAC meeting dated 24/02/2018, wherein during presentation PP submitted that 20 tree falling is proposed for which necessary approval from the competent authority will be obtained. Committee also suggested that RWH pits shall be developed before commencing the construction activities. The total fresh water requirement for the project is 3507 KLD. After presentation, PP was asked to submit response on following:

- 1) Copy of all the NOC's obtained from Municipal Corporation i.e. for fresh water supply, Sewage Discharge, MSW Disposal etc.
- 2) Open area should be bifurcated in the green belt area and other area. Complete landscape plan with number of trees and their species shall be submitted.
- 3) Revised species of plantation as suggested by the committee during presentation.

- 4) Proposal and details of dual plumbing proposed for this project.
- 5) Proposal for providing solar lights and budgetary provisions.
- 6) Details of solid waste generated during construction and its disposal plan.
- 7) High values of TDS are reported in the GW analysis for which justification with reason should be provided.
- 8) Number of ETP's proposed and their location marked on layout map should be submitted.
- 9) Complete details with sizes of each component of ETP should be provided.
- 10) Details of curtaining proposed during construction phase shall be submitted.
- 11) As suggested by committee, proposal for peripheral drainage should be submitted.
- 12) All the original laboratory reports with copy of NABL Certificate of concerned laboratories shall be provided.
- 13) Revised EMP with bifurcation in capital and recurring cost shall be provided.

PP vide letter no 4466 dated 03/04/2018 submitted the reply of above queries and thus the case was placed in the agenda.

The query reply was presented by the PP and their consultant which was found satisfactory and acceptable to the committee. Hence the case was recommended for grant of prior EC subject to the following special conditions:

**(A) PRE-CONSTRUCTION PHASE**

1. During demolition of old structures, the entire area should be covered with 12 feet MS sheets and due care should be taken for noise and vibration control during demolition work.
2. Curtaining of site should also be carried out to protect nearby habitat.
3. For dust suppression, regular sprinkling of water should be undertaken
4. PP will obtain other necessary clearances/NOC from respective authorities.
5. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.
6. The grant of Environmental Clearance should be subject necessary Wild Life Clearance from NBWL to be obtained by PP.

**(B) CONSTRUCTION PHASE**

7. During construction phase, a settling tank should be provided before final discharge of the effluent.

8. PPE's such as helmet, ear muffs etc should be provide to the workers.
9. Fire extinguishers should be provided on site during construction period.
10. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
11. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
12. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 10,750 no's of trees will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
13. The proposed landuse of the project is as follows:

SN	Particulars	Area ( in sq.m.)	Percentage
<b>1.</b>	Net Plot Area	814471.48	100%
<b>2.</b>	Area under Plotted development	338746.24	41.59 %
<b>3.</b>	Area Under group Housing	11526.24	1.42 %
<b>4.</b>	Commercial	47671.41	5.86%
<b>5.</b>	Amenities	42746.92	5.24 %
<b>6.</b>	Services	7438.12	0.91 %
<b>7.</b>	Open Area	84471	10.37%
<b>8.</b>	Circulation Area	281871.55	34.61%

14. MSW storage area should have 48 hours storage capacity and MSW should be disposed off at a designated place in consultation with the local authority.
15. As proposed, 50 number rain water harvesting pits should be provided and their design should be based on recharge rate study.
16. CFL/LED should be preferred over of tube lights.
17. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
18. PP should explore the possibility of providing solar street light.
19. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.

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

20. Fresh water requirement for the project shall not exceed 3507 KLD.
21. As proposed, the sewage and waste water should be treated in STP of 4500 KLD.
22. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
23. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.

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

24. PP has proposed Rs. 2540.00 lacks for green belt development and Rs. 201.00 lacks/year for recurring expenses in the proposed EMP of this project.
25. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
26. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Plastic Waste Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016 and Solid Waste Management Rules, 2016 etc.
27. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
28. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

**7. Case No. – 5673/2018 Sarpanch, Gram Panchayat, Barua, Barigarh, Tehsil - Gaurihar, Dist. Chhatarpur, MP – 471516 Prior Environment Clearance for Sand Mine in an area of 5.60 Ha.. (1,16,400 cum per annum) (Khasra no. 671) at Village- Barua , Tehsil - Gaurihar, Dist. Chhatarpur (MP).**

This is case of Sand Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 671) at Village- Barua, Tehsil - Gaurihar, Dist. Chhatarpur (MP) 5.60 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office (Ekal Praman Patra) vide letter no. 516 dated: 04/3/17 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant. During presentation and discussion it was observed as per the Google Image of Dec 2017 that the part of lease is submerged in water body and out of 5.60 ha area only 4.27 ha is available for sand mining. However, as per the mining plan, the sanctioned depth for mining is 2.7 mts hence considering the approved depth of mine plan and available dry area of 4.27 ha, 1,16,400 cum/year volume of sand can be evacuated. Committee during presentation and discussion asked PP to submit following information:

1. Revised water demand chart to be submitted by the PP as suggested by PP.
2. Revised plantation w.r.t number and species as suggested by the committee during presentation.

PP has submitted the reply vide letter dated 10/05/2018 which was found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B':

- Production of Sand as per mine plan with quantity not exceeding 1,16,400 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 100 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- The lease area should be clearly distinguished and earmarked at the site.
- No diversion of active channel should be allowed for mining.
- A budgetary provision for Environmental management Plan of Rs. 3.40 lacks (capital) is made with a recurring expenditure of 2.50 Lacks. In case the allocated EMP budget for

mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return. Under CSR Rs. 5.10 lacks/year (capital) is made with a recurring expenditure of 91,000 /year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

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

**8. Case No. – 5674/2018 Sarpanch, Gram Panchayat, Padhwaar, Barigarh, Tehsil - Gaurihar, Dist. Chhatarpur, MP – 471516 Prior Environment Clearance for Sand Mine in an area of 10.0 Ha.. (198312 cum per annum) (Khasra no. 1540/1) at Village- Padhwaar , Tehsil - Gaurihar, Dist. Chhatarpur (MP).**

This is case of Sand Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 1540/1) at Village- Padhwaar, Tehsil - Gaurihar, Dist. Chhatarpur (MP) 10.0 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office vide letter no. NIL dated: NIL 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. During presentation and discussion it was observed as per the Google Image of May 2017 that the lease is submerged in water body and out of 10.00 ha area only approx. 7.15 ha is available for sand mining. As per the mining plan sanctioned depth for mining is 2.5 mts. hence considering the approved depth of mine plan and area available for mining (7.15 ha), only 1,78,750 cum/year volume of sand can be evacuated. Committee during presentation and discussion asked PP to submit following information:

1. Revised water demand chart to be submitted by the PP as suggested by PP.
2. Revised plantation w.r.t number and species as suggested by the committee during presentation.

PP has submitted the reply vide letter dated 10/05/2018 which was found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B'

- Production of Sand as per mine plan with quantity not exceeding 1,78,750 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 100 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- The lease area should be clearly distinguished and earmarked at the site.
- No diversion of active channel should be allowed for mining.
- A budgetary provision for Environmental management Plan of Rs. 10.00 lacks (capital) is made with a recurring expenditure of 6.25 Lacks. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return. Under CSR Rs. 6.60 lacks/year (capital) is made with a recurring expenditure of 96,000 /year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
- All the mining activities shall be carryout in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.

**9. Case No. – 5676/2018 Sarpanch, Gram Panchayat Farswaha, Tehsil - Ajaygarh, Dist. Panna, MP – 458586 Prior Environment Clearance for Sand Mine in an area of 7.50 Ha.. (1,00,000 cum per annum) (Khasra no. 01) at Village- Farswaha , Tehsil - Ajaygarh, Dist. Panna (MP).**

This is case of Sand Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 01) at Village- Farswaha, Tehsil - Ajaygarh, Dist. Panna (MP) 7.50 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly

verified in the Collector's office (Ekal Praman Patra) vide letter no. 1180 dated: 27/4/18 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. During presentation and discussion it was observed as per the Google Image of Dec 2016 that the lease is submerged in water body and out of 7.50 ha area approx. 4.83 ha is available for sand mining. However, as per the mining plan sanctioned depth of mining is 2.5 mts. And hence with the available dry area, the sanctioned volume of sand can be evacuated. Committee during presentation and discussion asked PP to submit following information:

1. Revised plantation w.r.t number and species as suggested by the committee during presentation.
2. Revised EMP & CSR as suggested by the committee during presentation.
3. Revised water demand chart.

PP vide letter dated 10/05/2018 has submitted the reply of above queries and the same was placed before the committee which was find acceptable by the committee. The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B':

- Production of Sand as per mine plan with quantity not exceeding 1,00,000 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 100 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- The lease area should be clearly distinguished and earmarked at the site.
- No diversion of active channel should be allowed for mining.



- A budgetary provision for Environmental management Plan of Rs. 3.46 lacks (capital) is made with a recurring expenditure of 1.60 Lacks. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return. Under CSR Rs 2.00 /year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
- All the mining activities shall be carryout in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.

**10. Case No. – 5677/2018 Sarpanch/Sachive, Gram Panchayat Ramnai, Janpad Panchayat - Ajaygarh, Dist. Panna, MP – 488220 Prior Environment Clearance for Sand Mine in an area of 7.00 Ha.. (87500 cum per annum) (Khasra no. 01) at Village- Ramnai , Tehsil - Ajaygarh, Dist. Panna (MP).**

This is case of Sand Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra no. 01) at Village- Ramnai, Tehsil - Ajaygarh, Dist. Panna (MP) 7.00 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office (Ekal Praman Patra) vide letter no. 1179 dated: 27/4/18 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 presentation it was observed that as per the Google image of Nov 2016, most part of the lease area is submerged in water and only approx. 1.50 to 2.00 ha area is available for mining. However the PP submitted that there is no submergence of complete lease in water only in some part it is submerged in water. Hence committee after deliberations asked PP to submit Mining Officer's certificate indicating the availability of dry area for sand evacuation for further consideration of this project.

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

- 11. Case No. - 5200/2016 Executive Engineer, Office of Executive Engineer, Water Resources Department, Manawar Distt. – Dhar (M.P.) Prior Environment Clearance for Berkheda Medium Project" of Water Resources Department, Kukshi/Berkheda. Live capacity - 52.404 MCM, Cultivable Command Area – 9,900 ha, Catchment Area - 382.9 sq., Dam Length - 889.15 M, Spillway - 147.00 M, Maximum height of Dam - 36.68 M Ha. FoR- ToR ( River Valley Project)**

This is case of Medium River Valley and Hydroelectric Project. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Village-Kukshi/Berkheda Distt.-Dhar with Live capacity - 52.04 MCM, Cultivable Command Area - 9900 ha, Catchment Area - 382.9 sq., Dam Length - 889.15 M, Spillway - 147.00 M, Maximum height of Dam - 36.68 M ha. The project requires prior EC before commencement of any activity at site.

**Location Details**

S.No	Details	BERKHEDA PROJECT
1	Latitude	22 <sup>0</sup> 21' 8.7"
2	Longitude	74 <sup>0</sup> 54' 44.9"
3	State	Madhya Pradesh
4	District	Dhar
5	Tehsil & Block	Kukshi
6.	River	Uri ,a tributary of river Narmada
7.	Accessibility	At a distance of 80 Km from Dhar.

**BRIEF DESCRIPTION OF THE PROJECT**

- ✘ Berkheda Irrigation Project is proposed on River Uri near Tole/Berkheda village of Tehsil Kukshi, District Dhar located at Latitude 22<sup>0</sup>21'8.7" and Longitude 74<sup>0</sup>54'44.9".

- ✘ The Project is envisaged to have a live storage capacity of 52.40 MCM.
- ✘ 0.60 MCM has been reserved for drinking purpose for Kukshi Block.
- ✘ Total CCA of the Project is 9900 ha, benefitting 40 villages of Dhar District.
- ✘ Total cost of the project is Rs. 308.56 crores.

**Necessity & Project Benefits**

- ✘ To provide irrigation facility in 9900 hectares of land.
- ✘ During summer season, the ground water table lowers down substantially and the region suffers from acute shortage of water.
- ✘ Creation of reservoir will result in recharging of ground water, improvement in the ecology and will have a great positive impact on the environment of the region.

**SITE SELECTION CRITERIA FOR PROJECT AREA**

<u>PARTICULARS</u>	<u>REMARKS</u>
<u>Existing infrastructure</u>	<ul style="list-style-type: none"> <li>• <u>Rail Connectivity – Indore (110 Km.)</u></li> <li>• <u>NH Accessibility – Near Mangod NH59(65km) , khalghat NH3 (68km)</u></li> <li>• <u>Airport facility – Indore (110 Km.)</u></li> </ul>
<u>Resources Availability</u>	<ul style="list-style-type: none"> <li>• <u>Water– From Uri River , tributary of river narmada</u></li> <li>• <u>Cement / Steel – Dhar (80Km.)</u></li> <li>• <u>Metal – Baugh , Blackof Dhar (10 Km.)</u></li> <li>• <u>Sand - Hathini River 80 Km. from dam site</u></li> <li>• <u>Soil for Earthen Dam – From the Submergence area (2-5 Km)</u></li> <li>• <u>Human Resource for Masonry Work – Locally Available</u></li> </ul>
<u>Environmental consideration (within 10 km radius from proposed project site)</u>	<ul style="list-style-type: none"> <li>• <u>No National Park/Wild Life Sanctuary/Biosphere Reserve.</u></li> <li>• <u>No Eco sensitive zone</u></li> <li>• <u>No Critically/ severely polluted areas</u></li> <li>• <u>No Interstate boundary</u></li> </ul>

**DETAILS OF SUBMERGENCE AREA**

Forest Land : 32.49Ha  
Private Land : 261.52 Ha

Government Land : 195.80 Ha  
Total : 489.81 Ha

**Hydrology (Approved by BODHI)**

S.No	Particulars	Value
1.	Total Catchment area (sq.km)	382.90
	Intercepted Catchment area (sq.km)	184.41
	NetCatchment area (sq.km)	198.49
2	Average Annual Rainfall (mm)	751.22
3	Designed flood (SPF) (Cumecs)	4985.38
4	Net 75% dependable yield available (MCM)	52.40

- Total catchment area of the river at dam site is 382.90 sq km. Intercepted catchment area is 184.41 sq km. This water is utilized in existing 17 nos. of minor tanks. Net catchment area for Berkheda medium irrigation project is 198.49 sq km.
- 75% dependable yield is worked out as 52.40 MCM .
- Standard probable flood (SPF) has been worked out by Synthetic Unit Hydrograph approach (CWC, Sub zone, 3c) as 4985.38 cumecs.
- Dhar district is in Earthquake zone-III

**VILLAGES UNDER SUBMERGENCE**

- ❖ No Village is coming under full submergence.
- ❖ Partially Submerged Villages : 07 No., Tehsil Kukshi and Gandwani
- ✗ Total effected Population of villages : 684Nos ( ST 684, SC 0)
- ✗ Total effected No. of Families in villages : 168Nos (ST 168, SC 0)
- ✗ Number of Houses : 65 No.

**RESETTLEMENT AND REHABILITATION PLAN**

- There are 07 number villages coming in partially submargance namely Tole, Bandhaniya, Pipari in tehsil Kukshi and Reharda, Kojakuwa, Kadwal, Mujalda in tehsil Gandhwani.
- Provision for B-Land Rs. 57.67 Cr. taken in the project.

- ❑ Resettlement & Rehabilitation (R&R) is being prepared in accordance with the guidelines of the “Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013”.

The case was presented by the PP in SEAC 278<sup>th</sup> meeting dated 14/06/2016 wherein it was recorded that this is for issuing of TOR to carryout EIA studies with site specific details. The committee after deliberations decided that following additional TORs along with standard TOR issued by the MoEF&CC:-

1. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
2. If there is any mining activity in the area, same should be discussed in the EIA report.
3. As area under submergence includes forest land, PP should obtain forest clearance and provide status in the EIA report.
4. Aerial distance of interstate boundary from the project duly verified by the competent authority site should be submitted.
5. Cost benefit analysis including environmental factors should be given in the EIA report.
6. Green belt plan and catchment area treatment plan be provided in the EIA report.
7. Inventory of existing trees and their management should be provided in the EIA report.
8. It was also suggested by the committee that PP should explore the possibility of reducing the submergence of forest area.

PP has submitted EIA vide letter no. 49 dated 12/03/2018 which was forwarded through SEIAA vide letter no. 1992 dated 23/03/2018.

The EIA was presented by the PP and their consultant wherein during presentation PP informed that they have obtained the FC clearance. After presentation, PP was asked to submit response on following issues:

1. Copies of compliance report of the Section 11 & Section 19 notice issued by Collector office.
2. As the project lies in Dhar district, whether any Scheduled Areas are being affected in the dam? If yes, complete details as per Govt. norms & rules shall be provided with NOC from concerned Gram Sabah.
3. Map showing the pipeline network, digging details, disposal of excavated soil and area proposed to be broken.

4. As discussed during presentation, Village -wise detailed list containing information's regarding land to be acquired, for each village number of houses to be displaced (PEPs), PEFs and number of tenants.
5. Detailed R&R estimation as per PEPs and PEFs separately for land, houses and rehabilitation.
6. How the Land compensation will be taken-up for PAF's?
7. Whether the Project involves minimum Submergence?
8. Any construction work has been taken-up at project site till date.
9. Location map (facilities & layout) for proposed R&R site.
10. Pre and post Land use of the dam construction project.
11. Budget for EMP in terms of capital and recurring.
12. Top soil management plan with vertical section of soil profile.
13. Green belt development plan on layout map with their number & species.
14. For the issues raised in the public hearing regarding R&R, a commitment should be given by PP that their settlement will be done as per the Govt. norms.
15. Copy of FC clearance obtained for this project.

PP vides letetr no. 1283/W/2018 dtd 08.05.2018 submitted reply of the above queries. The query reply was placed before the committee in the presence of PP. During query reply discussions, committee informed PP that a complaint is made for this project on certain issues and decided that a copy of this complaint be made available to the PP for submitting reply. On perusal of the complaint PP informed to the committee that the issue raised in the complaint are already addressed in the EIA report and query reply submitted by them however they will submit the reply today it self as they are carrying all the documentary evidences. PP submitted the reply of the complaint vide letter dated 10/05/2018 which was placed before the committee. Committee observed that the query reply and reply of complaint submitted by the PP is satisfactory and acceptable hence after deliberations decided to recommend the case for grant of prior EC for Berkheda Medium Project" of Water Resources Department, Kukshi/Berkheda. Live capacity - 52.404 MCM, Cultivable Command Area – 9,900 ha, Catchment Area - 382.9 sq., Dam Length - 889.15 M, Spillway - 147.00 M, Maximum height of Dam - 36.68 M Ha. subject to the following special conditions:

**(A) PRE-CONSTRUCTION PHASE**

1. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
2. Catchment area treatment as per the scheduled plan should be completed before filling up the reservoir.

3. Adequate arrangement to prevent incidence of any endemic health problem due to water /soil borne diseases shall be provided.
4. Adequate provisions for re-vegetation, dressing, resurfacing of burrow pits etc. should be ascertained for protecting soil erosion due to runoff during rain.
5. Burning of firewood/fuel by the construction workers for their cooking may have minor impact on the local air quality, which however can be avoided with provision of alternate cooking fuel such as kerosene or LPG gas.
6. For dust mitigation measures following measures shall be adopted:
  - Roads leading to or at construction sites must be paved and blacktopped (i.e. metallic roads).
  - No excavation of soil shall be carried out without adequate dust mitigation measures in place.
  - No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.
  - Wind-breaker of appropriate height minimum 03 meters shall be provided.
  - Water sprinkling system shall be put in place.
  - Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.
  - Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
  - No uncovered vehicles carrying construction material and waste shall be permitted.
  - Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.
7. PP will obtain other necessary clearances/NOC from respective authorities.
8. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter shall also be made available to local bodies, Panchayat, State Pollution Control Board and Regional Office, MoEF & CC GoI, Bhopal.
9. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

**(B) CONSTRUCTION PHASE**

10. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
11. Fire extinguishers should be provided on site during construction/ plant erection period.
12. Water sprinkling arrangements shall be made to suppress the fugitive emissions and shall ensure that the ambient air quality is well within the prescribed norms by MoEF&CC/CPCB/MPPCB.
13. Construction of earthen dam should be taken-up during lean period when there is little flow of water in the river to avoid water pollution due to construction activity.
14. Provision of sub-soil drainage at places where water logging is anticipated shall be provided.
15. All the electrical appliances and digging should be minimum 15 meters away from any permanent structure.
16. Properly tuned construction machinery and good condition vehicles with mufflers (low noise generating and having PUC certificate) should be used and turned off which not in use.
17. DG sets shall be provided with acoustic enclosures to maintain the noise level within the prescribed limits.
18. The existing and proposed land use plan of the mine is as follows:

S. N.	Land Use Category	Present Area (sq.km)	Post Construction(sq.km)
1.	Agricultural land	390.71	388.435
2.	Dense Forest	22.81	22.615
3.	Open Forest	10.23	10.10
4.	Open Scrub/Barren Land	17.87	15.595
5.	Waterbody	4.60	9.39
6.	Settelment	3.67	3.455
	Total	449.59	449.59

19. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
20. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan



& EMP. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

21. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
22. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
23. The soil removed during the excavation will be stacked separately and will be used for the green belt development only.

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

24. Plantation shall be carried out by the PP as per submitted plan in the command area or on available degraded land.
25. In the post-irrigation phase, farmers tend to use more fertilizers and pesticides these may result in soil and water pollution. Hence, it should be essential to use the fertilizers and pesticides in a judicious manner without causing soil and water pollution. Awareness program shall be conducted and experts should interact with the local people who will guide them on the quantity and proper application of fertilizer and Pesticides.
26. Efficient irrigation systems should be promoted in the command area as Social Responsibility by the trained staff of the department.
27. Periodic soil/water testing shall be carried out in the command area and report to be submitted to Ministry of Agriculture with essential remarks.
28. Use of Solar Energy should be promoted in the project area where ever possible.
29. The project authorities should comply with the provisions made in the Water (Prevention & control) of Pollution Act 1974, and amended, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016, etc.
30. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
31. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
32. The project authorities should comply following provisions/ conditions made in the Construction and Demolition Waste Management Rules, 2016.

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

33. A budgetary provision of Rs. 7117.32 Lakh/year are made for Environmental Management Plan and R&R plan as capital cost and Rs. 127.16 lakhs /year are

proposed as recurring expenses. Out of which budgetary provision of Rs. 7.50 Lakh/year are made for implementing Environmental Monitoring Programme. And Rs. 25.40 lakhs are proposed for green belt development. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.

34. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
35. All commitments pertaining to public hearing shall be mandatory on part of PP.
36. The environment policy should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
37. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
38. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
39. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
40. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

**12. Case No. - 5194/2016 Shri M. G. Chobey, O/o Engineer-in-Chief, M. P. Water Resources Department, Jal Sansadhan Bhawan, Tulsi Nagar, Bhopal (M.P.)-462003 Prior Environment Clearance for KARAM Medium River Valley and Hydroelectric Project at Village-Dhar/Kothida, Tehsil-Dharampuri, Distt.-Dhar (M.P.) Live Capacity- 40.53 MCM, Cultivable Command Area - 8746 ha., Catchment Area – 342.50 Sq km, Dam Lenth – 564 M, Spillway – 96 M, Maximum height of Dam – 52.10 M.**

This is case of Medium River Valley and Hydroelectric Project. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located Village-Dhar/Kothida, Tehsil-Dharampuri, Distt.-Dhar with Live Capacity- 40.53 Mcm, Cultivable

Command Area - 8746 ha., Catchment Area – 342.50 Sq km, Dam Lenth – 564 M, Spillway – 96 M, Maximum height of Dam–52.10 M. The project requires prior EC before commencement of any activity at site.

**LOCATION DETAILS**

<b><u>S.No</u></b>	<b><u>Details</u></b>	<b><u>KARAM PROJECT</u></b>
1	Latitude	22 <sup>0</sup> 22' 4.7"
2	Longitude	75 <sup>0</sup> 29' 3.5"
3	State	Madhya Pradesh
4	District	Dhar
5	Tehsil & Block	Dharmapuri
6.	River	Karam, a tributary of river Narmada
7.	Accessibility	At a distance of 50 km from Dhar.

**BRIEF DESCRIPTION OF THE PROJECT**

- Karam Irrigation Project is proposed on river Karam near Kothida village of tehsil Dharampuri, District Dhar located at Latitude 22<sup>0</sup>22'4.7" and Longitude 75<sup>0</sup>29'3.5".
- The Project is envisaged to have a live storage capacity of 40.53 MCM.
- 5.0 MCM has been reserved for drinking purpose for Dhar and Nalcha Block.
- Total CCA of the project is 8746 ha, benefitting 52 villages of Dhar District.
- Total cost of the project is Rs. 304.44 crores.

**NECESSITY & PROJECT BENEFITS**

- To provide irrigation facility in 8746 hectares of land.
- During summer season, the ground water table lowers down substantially and the region suffers from acute shortage of water.
- Creation of reservoir will result in recharge of ground water, improvement in the ecology and will have a great positive impact on the environment of the region.

**SITE SELECTION CRITERIA FOR PROJECT AREA**

<b><u>PARTICULARS</u></b>	<b><u>REMARKS</u></b>
Existing infrastructure	<ul style="list-style-type: none"> <li>• Rail Connectivity – Indore (110km)</li> <li>• NH Accessibility – Near Gujri village on NH-3 (12 km), Dhar on NH-59 (50 km)</li> <li>• Airport facility – Indore (110km)</li> </ul>
Resources Availability	<ul style="list-style-type: none"> <li>• Water– From Karam river, a tributary of river Narmada</li> <li>• Cement / Steel – Dhar (50Km.)</li> <li>• Metal – Village Nalcha (22 Km.)</li> <li>• Sand - From Karam river (25 Km.)</li> <li>• Soil for Earthen Dam – From the Submergence area (2-5 Km)</li> <li>• Human Resource for Masonry Work – Locally Available</li> </ul>
Environmental consideration (within 10 km radius from proposed project site)	<ul style="list-style-type: none"> <li>• No National Park/Wild Life Sanctuary/Biosphere Reserve.</li> <li>• No Eco sensitive zone</li> <li>• No Critically/ severely polluted areas</li> <li>• No Interstate boundary</li> </ul>

**DETAILS OF SUBMERGENCE AREA**

Forest Land affected	:	126.36 Ha
Private Land	:	62.41 Ha
Government Land	:	63.95 Ha
Total	:	252.72 Ha

**HYDROLOGY (Approved by BODHI)**

S.No	Particulars	Value
1.	Total Catchment area (sq.km)	342.50
	Intercepted Catchment area (sq.km)	166.68
	Net Catchment area (sq.km)	175.82
2	Average Annual Rainfall (mm)	724.41
3	Designed flood (SPF) (Cumeecs)	5234.82
4	Net 75% dependable yield available (MCM)	42.07

**RESERVOIR**

S.No	Particulars	Value
1.	Top of Bund Level, (m)	R.L. 316.00
2.	Maximum Water Level , (m)	R.L. 313.20
3.	Full Reservoir Level, (m)	R.L. 312.00
4.	Crest Level (m)	R.L. 302.00
5.	Dead Storage Level, (m)	R.L. 284.00
6.	Deepest River Bed Level, (m)	R.L. 264.00
7.	Top Width of Dam (m)	6.00
8.	Height of Dam, (m)	52.00
9.	Gross storage (MCM)	43.98
10.	Live storage (MCM)	40.53
11.	Dead storage (MCM)	3.44
12.	Length of main Dam, (m)	564.00
13	Length of Spillway, (m)	96.00
14	No. of spillway gates, (m)	5 numbers radial gates of size 10m X15m
15	Length of main gravity pipe canal(km)	17.24 Km (pressure Irrigation)

**WATER PLANNING**

- The crop water requirement for approved cropping pattern (by state Agriculture department) is computed by Modified Penman Method.
- Based on the crop water requirement, demand table is prepared for 30 years which provides monthly crop water requirement for all crops sown in the command area.
- Reservoir operation tables for 30 years are prepared with 75 % success, hence no shortage of water for irrigation.

**RESETTLEMENT AND REHABILITATION PLAN**

- There are 4 villages of Tehsil Dharmapuri namely Utawali, Bhaisakho Khurd, Bhaisakho Kalan and Lalgarrh are coming in full submergence and 04 number villages Kothida, Chowki (Tehsil Dharmapuri), Jamanda and Saray(Tehsil Dhar ) are coming in partial submergence.
- Provision for B-Land Rs. 49.55 Cr taken in the project.

- ❑ Resettlement & Rehabilitation (R&R) is being prepared in accordance with the guidelines of the “Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013”.

The case was presented by the PP in SEAC 278<sup>th</sup> meeting dated 14/06/2016 wherein it was recorded that this is for issuing of TOR to carryout EIA studies with site specific details. The committee after deliberations decided that following additional TORs along with standard TOR issued by the MoEF&CC:-

1. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
2. PP should provide preliminary survey report as approx 50% of the area is forest land. Since project involves forest area, FC clearance has to be obtained. PP should indicate the status of FC clearance in EIA report.
3. If there is any mining activity in the area, same should be discussed in the EIA report.
4. As approximately 50% of the area under submergence in forest land, PP should provide proper justification for selection of site with details of alternative sites considered.
5. If the height of proposed dam is 50 meters, PP should explore the possibility of having mini hydel project.
6. Aerial distance of interstate boundary from the project duly verified by the competent authority site should be submitted.
7. Cost benefit analysis including environmental factors should be given in the EIA report.
8. Green belt plan and catchment area treatment plan be provided in the EIA report.
9. Inventory of existing trees and their management should be provided in the EIA report.

PP has submitted EIA vide letter no. 48 dated 12/03/2018 which was forwarded through SEIAA vide letter no. 1988 dated 23/03/2018.

The EIA was presented by the PP and their consultant 313<sup>th</sup> SEAC meeting dated 18/04/18 wherein during presentation PP informed that the FC clearance stage II is issued vides letter no. 8-36/2017-FC dated 05.04.2018. After presentation, PP was asked to submit response on following issues:

1. Copies of compliance report of the Section 11 & Section 19 notice issued by Collector office.

2. As the project lies in Dhar district, whether any Scheduled Areas are being affected in the dam? If yes, complete details as per Govt. norms & rules shall be provided with NOC from concerned Gram Sabah.
3. Map showing the pipeline network, digging details, disposal of excavated soil and area proposed to be broken.
4. As discussed during presentation, Village -wise detailed list containing information's regarding land to be acquired, for each village number of houses to be displaced (PEPs), PEFs and number of tenants.
5. Detailed R&R estimation as per PEPs and PEFs separately for land, houses and rehabilitation.
6. How the Land compensation will be taken-up for PAF's?
7. Whether the Project involves minimum Submergence?
8. Any construction work has been taken-up at project site till date.
9. Location map (facilities & layout) for proposed R&R site.
10. Pre and post Land use of the dam construction project.
11. Budget for EMP in terms of capital and recurring.
12. Top soil management plan with vertical section of soil profile.
13. Green belt development plan on layout map with their number & species.
14. For the issues raised in the public hearing regarding R&R, a commitment should be given by PP that their settlement will be done as per the Govt. norms.
15. Copy of FC clearance obtained for this project.

PP vide Memo no. 1382/W/18 dtd 08.05.2018 submitted reply of the above queries. The query reply was placed before the committee in the presence of PP. Committee after deliberations found the reply submitted by the PP satisfactory and acceptable hence the case was recommended for grant of prior EC for KARAM Medium River Valley and Hydroelectric Project at Village-Dhar/Kothida, Tehsil-Dharampuri, Distt.-Dhar (M.P.) Live Capacity- 40.53 MCM, Cultivable Command Area - 8746 ha., Catchment Area – 342.50 Sq km, Dam Length – 564 M, Spillway – 96 M, Maximum height of Dam – 52.10 M. subject to the following special conditions:

**(A) PRE-CONSTRUCTION PHASE**

1. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
2. Catchment area treatment as per the scheduled plan should be completed before filling up the reservoir.

3. Adequate arrangement to prevent incidence of any endemic health problem due to water /soil borne diseases shall be provided.
4. Adequate provisions for re-vegetation, dressing, resurfacing of burrow pits etc. should be ascertained for protecting soil erosion due to runoff during rain.
5. Burning of firewood/fuel by the construction workers for their cooking may have minor impact on the local air quality, which however can be avoided with provision of alternate cooking fuel such as kerosene or LPG gas.
6. For dust mitigation measures following measures shall be adopted:
  - Roads leading to or at construction sites must be paved and blacktopped (i.e. metallic roads).
  - No excavation of soil shall be carried out without adequate dust mitigation measures in place.
  - No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.
  - Wind-breaker of appropriate height minimum 03 meters shall be provided.
  - Water sprinkling system shall be put in place.
  - Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.
  - Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
  - No uncovered vehicles carrying construction material and waste shall be permitted.
  - Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.
7. PP will obtain other necessary clearances/NOC from respective authorities.
8. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter shall also be made available to local bodies, Panchayat, State Pollution Control Board and Regional Office, MoEF & CC GoI, Bhopal.
9. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.



**(B) CONSTRUCTION PHASE**

10. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
11. Fire extinguishers should be provided on site during construction/ plant erection period.
12. Water sprinkling arrangements shall be made to suppress the fugitive emissions and shall ensure that the ambient air quality is well within the prescribed norms by MoEF&CC/CPCB/MPPCB.
13. Construction of earthen dam should be taken-up during lean period when there is little flow of water in the river to avoid water pollution due to construction activity.
14. Provision of sub-soil drainage at places where water logging is anticipated shall be provided.
15. All the electrical appliances and digging should be minimum 15 meters away from any permanent structure.
16. Properly tuned construction machinery and good condition vehicles with mufflers (low noise generating and having PUC certificate) should be used and turned off which not in use.
17. DG sets shall be provided with acoustic enclosures to maintain the noise level within the prescribed limits.
18. The existing and proposed land use plan of the mine is as follows:

S. N.	Land Use Category	Present Area (sq.km)	Post Construction(sq.km)
1.	Agricultural land	209.67	208.98
2.	Open Forest	110.09	109.45
3.	Dense Forest	51.4	50.41
4.	Waterbody	10.8	13.23
5.	Settelment	4.47	4.36
Total		386.43	386.43

19. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
20. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
21. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.

22. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
23. The soil removed during the excavation will be stacked separately and will be used for the green belt development only.

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

24. Plantation shall be carried out by the PP as per submitted plan in the command area or on available degraded land.
25. In the post-irrigation phase, farmers tend to use more fertilizers and pesticides these may result in soil and water pollution. Hence, it should be essential to use the fertilizers and pesticides in a judicious manner without causing soil and water pollution. Awareness program shall be conducted and experts should interact with the local people who will guide them on the quantity and proper application of fertilizer and Pesticides.
26. Efficient irrigation systems should be promoted in the command area as Social Responsibility by the trained staff of the department.
27. Periodic soil/water testing shall be carried out in the command area and report to be submitted to Ministry of Agriculture with essential remarks.
28. Use of Solar Energy should be promoted in the project area where ever possible.
29. The project authorities should comply with the provisions made in the Water (Prevention & control) of Pollution Act 1974, and amended, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016, etc.
30. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
31. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
32. The project authorities should comply following provisions/ conditions made in the Construction and Demolition Waste Management Rules, 2016.

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

33. A budgetary provision of Rs. 5888.32 Lakh/year are made for Environmental Management Plan and R&R plan as capital cost and Rs. 139.86 lakhs /year are proposed as recurring expenses. Out of which budgetary provision of Rs. 30.00 Lakh/year are made for implementing Environmental Monitoring Programme. And Rs. 22.80.00 lakhs are proposed for green belt development. The environment policy of the company should

be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.

34. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
35. All commitments pertaining to public hearing shall be mandatory on part of PP.
36. The environment policy should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
37. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
38. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
39. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
40. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

**13. Case No. - 5423/2016 Executive Engineer, Water Resources Department, Division - II, Kesli, Distt.- Sagar, (M.P.) – 470235 Medium Irrigation Project, River – Parkul (Ken Basin) Cultivable Command Area – 3200 ha, Catchment Area – 71.88 skim. Dam Length - 1350 M, Maximum height of Dam - 23 M Ha. Vill. - Bakshawaha, Teh. - Sagar, Distt. - Sagar, (M.P.)**

This is a River Valley projects involving < 10,000 ha. of culturable command area and denies the general conditions falls under category "B" and have been mentioned at SN. 1(c) column B of Schedule of EIA Notification, hence such projects are required to obtain prior EC from the SEIAA. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

**Location Details**

Sl.No.	Details	PARKUL PROJECT
1	Latitude	23°36'13''
2	Longitude	78°40'16''
3	State	Madhya Pradesh
4	District	Sagar
6	Block	Jaisinagar
7.	River	Parkul (A tributary of river Bewas which is a tributary of Ken.)
8.	Accessibility	At a distance of 61 Kms from Sagar.

**SITE SELECTION CRITERIA FOR PROJECT AREA**

<b><u>PARTICULARS</u></b>	<b><u>REMARKS</u></b>
Existing infrastructure	<ul style="list-style-type: none"> <li>• Rail Connectively – Sagar (61Km.)</li> <li>• NH Accessibility – Sagar (25 Km.)</li> <li>• Airport facility – Sagar (70 Km.)</li> </ul>
Resources Availability	<ul style="list-style-type: none"> <li>• Water– From Parkul River</li> <li>• Cement / Steel – Sagar (61 Km.)</li> <li>• Metal – Bilhera (25 Km.)</li> <li>• Sand - Narmada (100 Km.)</li> <li>• Soil for Earthen Dam – From the Submergence area (2-5 Km)</li> <li>• Human Resource for Construction Works – Locally Available</li> </ul>
Environmental consideration (within 10 km radius from proposed project site)	<ul style="list-style-type: none"> <li>• No National Park/Wild Life Sanctuary/Biosphere Reserve.</li> <li>• No Eco sensitive zone</li> <li>• No Critically/ severely polluted areas</li> <li>• No Interstate boundary</li> </ul>

**Necessity & Project Benefits**

- To provide Irrigation facility to 3200 hectares of land in draught prone area of Block Jaisinagar, Distt. Sagar

- During summer season, the ground water table lowers down substantially and the region suffers with acute shortage of drinking water.
- Creation of reservoir will result in recharge of ground water, improvement in the ecology and will have a great positive impact on the environment of the region.

**BRIEF DESCRIPTION OF THE PROJECT**

- Parkul Medium Irrigation Project is proposed on River Parkul, a tributary of river Bewas, near Bakshwaha village of Block :Jaisinagar, Tehsil:Sagar, District :Sagar located at Latitude 23°36'13'' and Longitude 78°40'16''
- The Project is envisaged to have a live storage capacity of 20.37 MCM.
- Abadi of only one Village “Bakshawaha” is coming under partial submergence, 40 houses/families are affected.
- Land compensation & R/R will be provided as per Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
- Total CCA of the Project is 3200 ha, benefitting 19 villages of Dist. & Tehsil Sagar.

**Reservoir Data:**

<u>S.No</u>	<u>Particulars</u>	<u>Value</u>
1.	Top of Bund Level,	EL. 551.15 M
2.	MWL ,	EL. 549.15 M
3.	Full Reservoir Level,	EL. 548.65 M
4	Dead Storage Level,	EL. 540.00 M
5	Deepest River Bed Level,	EL. 528.15 M
6.	Top Width of Dam	6.00 M
7.	Height of Dam,	23.00 M
8.	Gross storage	22.77 MCM
9.	Live storage	20.37 MCM
10.	Dead storage	2.40 MCM
11.	Length of main Dam,	1350 M
12	Length of Spillway,	150.00 M

13	No. of spillway gates,	Ungated
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**Canal Data (By Flow Irrigation)**

S No	Particulars	Length
1.	Length of Main Canal	20.88 Kms
2.	Distribution & Minor Network	30.00 Kms

**DETAILS OF SUBMERGENCE AREA**

Forest Land	: 38.98 Ha
Private Land	: 221.56 Ha
Government Land	: 125.46 Ha
Total	: 386.00 Ha

The case was presented by the PP in 283<sup>rd</sup> SEAC Meeting held on 26/10/16 for issuing of TOR to carryout EIA studies with site specific details. Committee after deliberations recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Since project involves 38.90 ha forest area, FC clearance has to be obtained. PP should indicate the status of FC clearance in EIA report.
2. It should be discussed in the EIA report that if the proposed height of the dam is reduced by one meter how much submergence area and CCA will be reduced.
3. If there is any mining activity in the area, same should be discussed in the EIA report.
4. Cost benefit analysis including environmental factors should be given in the EIA report.
5. Green belt plan and catchment area treatment plan be provided in the EIA report.
6. Inventory of existing trees and their management should be provided in the EIA report.
7. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
8. The potential risks and threats associated with the dam when it reaches FTL to the **nearby villages** should be discussed in the EIA.
9. The submergence is quite high in relation to CCA. Hence, the committee will carry out site visit and may issue additional ToR if necessary.

During the site visit on 25<sup>th</sup> April 2017, a team of PP having **Executive Engineer, Water Resources Department, Division - II, Kesli, Distt.- Sagar**, Sri Nigam-Advisor WRD and EIA Consultant, DAS India Pvt. Ltd Lucknow (Mr. Atulesh Sr. Executive Environmental Manager) accompanied the SEAC Sub-committee.

#### **OBSERVATIONS:**

1. The EIA consultant informed that the EIA study has been allotted to them on 22<sup>nd</sup> February, 2017. They have, so far, done only preliminary survey and are in the process of mobilizing monitoring work.
2. The proponent informed that the access route to dam site for movement of construction machineries etc does not pass through the forest area.
3. The application for FC is in the initial stage.
4. The SEAC Sub Committee did not find any evidence of project implementation / construction at the time of site visit. Hence there is no violation.
5. The SEAC subcommittee did not find any evidence of mining activity in the area for the proposed submergence.
6. The dam site / submergence is in between two small hillocks at quite good distance. The submergence is quite high in relation to CCA for want of reasonably good gorge. Even the submergence area is quite undulating reducing the storage quantity. The committee therefore emphasized up on the point No 2 of ToR recommended in 283<sup>rd</sup> SEAC meeting, i.e., *“It should be discussed in the EIA report that if the proposed height of the dam is reduced by one meter how much submergence area and CCA will be reduced”*. The PP/ consultant were asked to address this point in detail in a separate chapter in EIA report.
7. The SEAC subcommittee reiterated the points already given in ToR. Since the submergence is quite high in relation to CCA the issue of reducing proposed height of the dam by one meter be addressed in depth in EIA. However, no additional TOR to that already given in 283<sup>rd</sup> SEAC meeting is proposed.

The above site inspection report was placed before the committee in 289<sup>th</sup> SEAC meeting dated 28/04/2017 wherein after deliberations and discussions. Dr. U. R. Singh briefed all the members about the findings and recommendations of the subcommittee report. The committee after

deliberations decided that the issues raised by the subcommittee should be communicated to the concerned PP's and same should be addressed with the EIA report.

**(B) INFORMATIONS SUBMITTED BY PP'S/ISSUES RAISED BY SEIAA**

PP has submitted EIA vide letter no. 677 dated 05/03/2018 which was forwarded through SEIAA vide letter no. 1994 dated 23/03/2018.

The EIA was presented by the PP and their consultant wherein during presentation PP informed that since the project involves forest land they have made the application for the FC clearance. After presentation, PP was asked to submit response on following issues:

1. Copies of compliance report of the Section 11 & Section 19 notice issued by Collector office.
2. Map showing the canal network, digging details, disposal of excavated soil and area proposed to be broken.
3. As discussed during presentation, Village -wise detailed list containing information's regarding land to be acquired, for each village number of houses to be displaced (PEPs), PEFs and number of tenants.
4. Detailed R&R estimation as per PEPs and PEFs separately for land, houses and rehabilitation.
5. Any construction work has been taken-up at project site till date.
6. Location map (facilities & layout) for proposed R&R site.
7. Pre and post Land use of the dam construction project.
8. Budget for EMP in terms of capital and recurring.
9. Green belt development plan on layout map with their number & species.
10. For the issues raised in the public hearing regarding R&R, a commitment should be given by PP that their settlement will be done as per the Govt. norms.
11. Copy of application filed for the FC clearance for this project.
12. Monitoring photographs taken during EIA study.

PP vide letter dated 07.05.2018 submitted reply of the above queries. The query reply was placed before the committee in the presence of PP. Committee after deliberations found the reply submitted by the PP satisfactory and acceptable hence the case was recommended for grant of prior EC for Medium Irrigation Project, River – Parcel (Ken Basin) Cultivable Command Area – 3200 ha, Catchment Area – 71.88 skim. Dam Length - 1350 M, Maximum height of Dam - 23



M Ha. Vill. - Bakshawaha, Teh. - Sagar, Distt. - Sagar, (M.P.) subject to the following special conditions

**(A) PRE-CONSTRUCTION PHASE**

1. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
2. Catchment area treatment as per the scheduled plan should be completed before filling up the reservoir.
3. Adequate arrangement to prevent incidence of any endemic health problem due to water /soil borne diseases shall be provided.
4. Adequate provisions for re-vegetation, dressing, resurfacing of burrow pits etc. should be ascertained for protecting soil erosion due to runoff during rain.
5. Burning of firewood/fuel by the construction workers for their cooking may have minor impact on the local air quality, which however can be avoided with provision of alternate cooking fuel such as kerosene or LPG gas.
6. For dust mitigation measures following measures shall be adopted:
  - Roads leading to or at construction sites must be paved and blacktopped (i.e. metallic roads).
  - No excavation of soil shall be carried out without adequate dust mitigation measures in place.
  - No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.
  - Wind-breaker of appropriate height minimum 03 meters shall be provided.
  - Water sprinkling system shall be put in place.
  - Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.
  - Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
  - No uncovered vehicles carrying construction material and waste shall be permitted.
  - Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.
7. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days

of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter shall also be made available to local bodies, Panchayat, State Pollution Control Board and Regional Office, MoEF & CC GoI, Bhopal.

8. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.
9. PP will obtain other necessary clearances/NOC from respective authorities.

**(B) CONSTRUCTION PHASE**

10. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
11. Fire extinguishers should be provided on site during construction/ plant erection period.
12. Water sprinkling arrangements shall be made to suppress the fugitive emissions and shall ensure that the ambient air quality is well within the prescribed norms by MoEF&CC/CPCB/MPPCB.
13. Construction of earthen dam should be taken-up during lean period when there is little flow of water in the river to avoid water pollution due to construction activity.
14. Provision of sub-soil drainage at places where water logging is anticipated shall be provided.
15. All the electrical appliances and digging should be minimum 15 meters away from any permanent structure.
16. Properly tuned construction machinery and good condition vehicles with mufflers (low noise generating and having PUC certificate) should be used and turned off which not in use.
17. DG sets shall be provided with acoustic enclosures to maintain the noise level within the prescribed limits.
18. The existing and proposed land use plan of the mine is as follows:

Land Use Type	Existing Land Use Area (sq.km.)	Land Use after Construction of Dam Area (sq.km.)
Crop land	22.12	35.01
Water bodies	0.501	3.43
Fallow land	29.226	16.226
Open Forest/ Scrub land/Scattered Plantation	13.079	9.6

Waste land	2.125	2.125
Built-up	0.053	0.050

19. Waste construction material should be recycled as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
20. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
21. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
22. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
23. The soil removed during the excavation will be stacked separately and will be used for the green belt development only.

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

24. Plantation shall be carried out by the PP as per submitted plan in the command area or on available degraded land.
25. In the post-irrigation phase, farmers tend to use more fertilizers and pesticides these may result in soil and water pollution. Hence, it should be essential to use the fertilizers and pesticides in a judicious manner without causing soil and water pollution. Awareness program shall be conducted and experts should interact with the local people who will guide them on the quantity and proper application of fertilizer and Pesticides.
26. Efficient irrigation systems should be promoted in the command area as Social Responsibility by the trained staff of the department.
27. Periodic soil/water testing shall be carried out in the command area and report to be submitted to Ministry of Agriculture with essential remarks.
28. Use of Solar Energy should be promoted in the project area where ever possible.
29. The project authorities should comply with the provisions made in the Water (Prevention & control) of Pollution Act 1974, and amended, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016, etc.
30. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
31. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.

32. The project authorities should comply following provisions/ conditions made in the Construction and Demolition Waste Management Rules, 2016.

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

33. A budgetary provision of Rs. 2756.65 Lakh/year are made for Environmental Management Plan and R&R plan as capital cost and Rs. 299.50 lakhs /year are proposed as recurring expenses. Out of which budgetary provision of Rs. 15.0 Lakh are made for implementing Environmental Monitoring Programme. And Rs. 7.31 lakhs are proposed for green belt development. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
34. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
35. All commitments pertaining to public hearing shall be mandatory on part of PP.
36. The environment policy should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
37. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
38. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
39. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
40. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
14. **Case No. - 5574/2017 M/s The Ishwar Mining and Industrial Corporation (Pvt.) Ltd, Mr. John George, Director In-Charge, Charankamal, 7, Ishwar Nagar, Mathura Road, New Delhi (SIA/MP/MIN/64121/2017). Prior Environment Clearance for Pyrophyllite and**

**Diaspore Mine in an area of 17.0 Ha. (27,563 TPA) (Khasra no. 479) at Village- Khurai, Tehsil - Pichhore, Dist. Shivpuri (MP)**

This is case of Pyrophyllite and Diaspore Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site (Khasra no. 479) at Village- Khurai, Tehsil - Pichhore, Dist. Shivpuri (MP) 17.0 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.1896, dated: 15/01/2016, has reported that there are no more mine operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant in the SEAC 80<sup>th</sup> meeting dated 14.06.2017. After presentation the committee decided that PP should submit a comprehensive EMP through QCI/NABET **accredited** consultant addressing following issues:-

1. EMP with one month data for Air, Water and Noise monitoring.
2. Inventory of existing trees with their number and species on the lease and detailed plan if any existing tree is to be uprooted for the mining.
3. Details of plantation scheme to be submitted by the PP.
4. Management and disposal plan of OB.
5. Surface plan clearly showing the area left due to roads as per MMR, 1996 and location and size of settling tanks and garland drains.
6. Management of mine water discharge.
7. Transportation and evacuation plan of minerals considering production volume of all the mines within 500 meters radius.”
8. Mechanism of Blasting done to be discussed in the EMP report.
9. Production details to be submitted in the final EMP report.

In the above context, a letter was sent to PP vide no. 429 dated 21.06.2017 for submission of EMP and later reminder letter vide letter no. 511, dated 27.11.2017 was also sent. However, PP

vide letter dated 20.12.2017 has informed that field study has been completed and EMP prerartion is also in process thus two months more time may be permitted for submission the desired document. Till date PP has not submitted the comprehensive EMP and thus the case was placed before the committee.

Committee on perusal of the case file observed that till date, PP has not submitted the comprehensive EMP and have also not requested for the time hence, in the light of MoEF &CC, O.M. File no. J-11013/5/2009-IA-II (Part) , Dtd. 30th October, 2012 case may be recommended for delisting to SEIAA.

**15. Delisting of TOR as their validity has expited.**

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

SN	Case No. Activity	SEAC Meeting details	ToR Validity
1.	Case No.– 2009/2014 M/s Aditya Enterprises through Proprietor Shri Sanjay L. Gupta, 2 Sanyam Complex, Bombay Conductor Road, Jashoda Nagar, Ahmedabad- (Guj.) 382445 E.C. for proposed project Manufacturing of Dyes & Intermediates at Khasra No. 193, AKVN Industrial Area, Meghnagar, Tehsil- Meghnagar, Disst- Jhabua, M.P.Capacity-443.5MT/Month.	ToR Recommended in 188 <sup>th</sup> SEAC Meeting dt. 02/05/15	ToR Valid up to 01/05/2018.
2.	Case No.- 2500/2015 Mr. P.S. Marwah, President, M/s Birla Corporation Limited, Unit-Satna Cement Works, P.O. Birla Vikas, Distt.-Satna (M.P.)-485005 Proposed Expansion of Captive Power Plant by Installation of 6.0 MW Steam Turbo Set with existing Boiler at Khasra no.- 168, 174, 175, 176, 176, 177, 178, 180, 181, 182 at Vill.- Ghurdang, Th.--Raghuraj Nagar, Dist-Satna (M.P.)	ToR Recommended in 191 <sup>st</sup> meeting dated 07/05/2015,	ToR Valid up to 06/05/2018.
3.	Case No. - 2108/2014 Shri Abhay Singh Choudhary S/o Shri Parvat Singh Choudhary, 20, Tansen Nagar, Gwalior (MP)-474001 Pachara Stone Quarry Lease Area – 1.950 ha., at Khasra No.-80/3 , Village-Pachara, Tehsil-Badoni, District-Datia (MP) ,Cap. – 40,000 Cubic mt./Year.	ToR Recommended 169 SEAC Meeting dt. dt. 27/01/15.	ToR Valid up to 26/01/17.
4.	Case No. - 2202/14 Shri Bhushan Suri S/o Late Shri Uttam Chandra Suri, Owner, M-17, Gandhi Nagar, Gwalior (MP)-474001 Stone Quarry in an area of 1.930 ha. at Village-	ToR Recommended 175 SEAC Meeting dt. 25/02/15.	ToR Valid up to 24/02/18.

	Pachara, Tehsil-Badoni, Datia (MP)		
5.	Case No. – 2327/2014 Smt. Indra Shrivastava W/o Shri Dharmendra Shrivastava Partnar M/s Mahalaxmi Stone Crusher R/o 5, Vidhya Vihar Colony, Thatipuer Chouraha Gwalior, Distt-Gwalior (M.P.)-452001 Stone Quarry Lease Area – 4.00 ha., at Khasra No. 80/3, Lease Period Ten Year Village- Pachara, Tehsil-Datia, District-Datia (MP), Capacity – 1,00,000 Cu.mt./Year.	ToR Recommended 179 SEAC Meeting dt. dt. 25/03/15.	ToR Valid up to 24/03/18.
6.	Case No. – 2376/2015 Shri Pushpraj Sharma S/o Shri Anil Kumar Sharma, New Colony, 3 Bidla Nagar, Gwalior (MP)-474001 (M-09926661799) Stone Quarry in an area of 1.970 ha. at Khasra No.80/3 Lease Period 10 Year at Village- Pachara, Tehsil-Badoni, District-Datia (MP) Capacity-40,000 cum/year.	ToR Recommended 180 <sup>th</sup> SEAC Meeting dt. dt. 26/03/15.	ToR Valid up to 25/03/18.
7.	Case No. - 2416/2015 Shri Sumit Singhania, 8, Shastri Nagar, Neemuch (M.P.)-458441 Prior E.Cfor approval of Sarwania Maharaj Laterite Mine Lease Area – 13.284 ha.(for expansion in Capacity from 1,837 TPA to 2,50,000 TPA) at Khasra No. – 39/1, Vill.-Sarwania Maharaj, Th.-Neemuch, Distt.-Neemuch (M.P.)	ToR Recommended 191 <sup>th</sup> SEAC Meeting dt. dt. 07/05/15.	TOR Valid up to 06/05/2018.
8.	Case No. - 2426/2015 Shri Braeajendra Sharma, Director, M/s S.R. Ferro Alloys, 9, Siddheshwar Colony, PO & Distt.-Jhabua (M.P.) – 457661 Jamli Choti & Arandi Falia Manganese Deposit Mine Lease Area - 15.26 ha., Capacity-38,000 cum/year) at Khasra No. – 255, 249, Vill.-Jamli Choti & Arandi Falia, Th.-Jobat, Distt.-Alirajpur	ToR Recommended 192 <sup>th</sup> SEAC Meeting dt. dt. 08/05/15.	TOR Valid up to 07/05/2018.
9.	Case No. - 2471/2015 M/s S.N.S. (Minerals) Ltd., Shri Himanshu Kothari, Executive Director & Nominated Owner, N.H-7, Rewa Road, Maihar, distt-Satna (M.P.) -485771 Tilaura Limestone Mine Lease Area - 3.774 ha.Capacity Limestone 25000TPA & Reject Stone 30000 TPA at Khasra Nos. 909, 910, 911, 912, 915, 996, 997, 998, 999, & 1001 at Vill.-Tilaura, Th.-Maihar, Distt-Satna (M.P.)	ToR Recommended 192 <sup>th</sup> SEAC Meeting dt. dt. 08/05/15.	TOR Valid up to 07/05/2018.

**16. JOINT INSPECTION REPORT OF MEMBERS OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC) AND DISTRICT LEVEL EXPERT APPRAISAL COMMITTEE (DEAC) COMMITTEE -AS PER HON'BLE NATIONAL GREEN**

**TRIBUNAL, (CZB) BHOPAL ORDER DATED 17/05/2017 IN OA No. 15/2017 AND 16/2017**

EC's issued for case no. 3777/2015 and 3776/2015 were challenged by the Gram Panchayat Ghunaur and Gram Panchayat Rohiniya before the Hon'ble NGT CZ Bhopal vide Original Application 15 & 16 of 2017 respectively and Hon'ble NGT (CZ) Bhopal have directed MP, SEIAA in its order dated: 17/5/17 in OA No. 15 & 16 of 2017 (Annexure-1) to review the matter in respect of grant of EC dated 29/12/15 which is recorded as:-

*“We direct further that SEIAA to take into account the situation and ensure that both the members of SEAC as well as DEAC may be present during spot inspection before giving their appraisal reports and recommendations for grant or refusal of the EC based upon the local conditions and its impact on the environment Learned Counsel prays for time to submit the report before the Tribunal.”*

With reference to the above, a team of SEAC & DEAC was constituted (annexure-2 (a & b)) for spot inspection as per the order of Hon'ble NGT, CZ, Bhopal. As decided, joint team of SEAC & DEAC visited the site on 29.01.2018 wherein the following members were present:

1. Shri Prashant Shrivastava, Member, SEAC, MP.
2. Dr. Mohd. Akram Khan, Principal Scientist, CSIR-AMPRI and Member, SEAC, MP.
3. Shri K.D. Ojha, Executive Engineer, WRD, District Katni, Member, DEAC, MP.
4. Smt. Deepmala Tiwari, Deputy Director, Khanij Sakha, District Katni, Member, DEAC, MP.
5. Shri Hemant Tiwari, Regional Officer, MP Pollution Control Board, District Katni, Member, DEAC, MP.
6. Shri Shalendra Mishra, Mine Inspector, District Katni, Member, DEAC, MP.

Apart from the above team members, representative of mine owner was also present during site inspection.

With reference to SEIAA letter No. 2035 dt. 31/3/18, the case was placed before the inspection team member of SEAC. On presual of SEIAA query and IR submitted by joint team, following are the submissions.

- (A) The mentioned point by the NGT has already been addressed in the joint IR.
- (B) In point no. 5 (i) to (v), it is very clearly mentioned that
  - Sanction volume of sand i.e. 39,200 was found technically available for evacuation on inspection data i.e. 29/1/2018.



- It was found evident on inspection data that a vertical dugout section of 3 meters was exposed by the miner for sand evacuation.

(C) As far the issue regarding submergence of the area up the month of January is concerned, there was no sign and symptoms of submergence on 29/1/2018. (Inspection date)

The committee deliberated on the above query of SEIAA and recommends that above clarification may be sent to SEIAA for onward necessary action.

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

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

**(R. Maheshwari)**  
**Member**

**(Prashant Shrivastava)**  
**Member**

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

**(Dr. Rubina Chaudhary)**  
**Member**

**(Mohd. Kasam Khan)**  
**Chairman**

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

**Annexure- 'A'**

**Standard conditions applicable to Stone/Murram and Soil quarries:**

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

**Annexure- 'B'**

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

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

**Annexure- 'C'**

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

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

**Annexure- 'D'**

**General conditions applicable for the granting of TOR**

1. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
2. An inventory of flora & fauna based on actual ground survey shall be presented.
3. Risk factors with their management plan should be discussed in the EIA report.
4. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
5. The EIA document shall be printed on both sides, as far as possible.
6. All documents should be properly indexed, page numbered.
7. Period/date of data collection should be clearly indicated.
8. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
9. The copy of the letter received from the SEAC prescribing TOR for the project should be attached as an annexure to the final EIA/EMP report.

10. The final EIA/EMP report submitted to the SEIAA must incorporate all issues mentioned in TOR and that raised in Public Hearing with the generic structure as detailed out in the EIA report.
11. Grant of TOR does not mean grant of EC.
12. The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared.
13. On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MOEF & CC) have been complied with and the data submitted is factually correct.
14. While submitting the EIA/EMP reports, the name of the experts associated with involved in the preparation of these reports and the laboratories through which the samples have been got analyzed should be stated in the report. It shall be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and also have NABL accreditation.
15. All the necessary NOC's duly verified by the competent authority should be annexed.
16. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
17. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CSR cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
18. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
19. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
20. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
21. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
22. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.