

The 336th meeting of the State Expert Appraisal Committee (SEAC) was held on 04th December, 2018 under the Chairmanship of Mohd. Kasam Khan for the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohd. Akram Khan, Member.
2. Dr. A. K. Sharma, Member.
3. Shri Prasant Srivastava, Member.
4. Dr. R. Maheshwari, Member.
5. Dr. Jai Prakash Shukla, Member.

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

1. **Case No. - 5487/2016 Engineer-in-Chief, Water Resources Department, Office of Engineer-in-Chief, Jal Sansadhan Bhawan, Tulsi Nagar, Bhopal, (M.P.) – 462003. Prior Environment Clearance for TEM Medium Irrigation Tank Project at Kasra no. 1, 2, 4, 5, 7, 19, 20, 24, 25, 26, 27, 28, 42, 43 Village – Dapkan, Khedli, Beragarh, District - Vidisha (M.P.) GCA Available – 16,470 Ha., CCA Available – 9990 Ha., Cat. 1 (c) River Valley and Hydroelectric Projects. Env. Consultant- Voyants Solutions Pvt. Ltd. Gurgaon.**

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.

The Tem Medium Project Dam Site is located on the River Tem (which is sub-tributary of Parvati River and it meets Betwa River in Yamuna basin) near Village- Dapkan in Block- Lateri of District- Vidisha Madhya Pradesh at Latitude 23⁰-53'-57" N & Longitude 77⁰-19'-15" E. The project site can be approached by traveling 40 km on Bhopal – Berasia road and than by travelling 50 km on Berasia - Nazirbad road. Thus total distance from Bhopal to site is 90 kms. The nearest railway station to project site is Bhopal which is 90 km away from dam site.

Salient Features

1. Name of the Project : TEM Medium Irrigation Project
2. Type of Project : Medium Irrigation Project

3. Location
- Name of Village : Dapkan
 Name of Tehsil : Lateri
 Name of District : Vidisha (M.P.)
 Latitude : 23° 53' 57" N
 Longitude : 77° 19' 15" E
 Toposheet : 54 H/4, 54 H/8, 55 E/01 & 55 E/05
4. River : TEM (Chambal Basin)
5. Accessibility : From Bhopal
 Airport : 90 Km
 Rail head : 90 Km
 : 80 KM (Project site is situated on all- weather Bitumen carpeted Tar Road)
6. Hydrology
 Catchment Area : 297.95 Sqkm
 Maximum Annual Rain fall : 1622.00 mm (1987-88)
 Minimum Annual Rain fall : 489.00 mm (2002 – 03)
 Average Annual Rain fall : 953.00 mm
 75% Dependable yield : 48.973 MCM
 Design flood : 2826.86 Cumecs
5. Reservoir Data
 M.W.L. : RL 457.60 m
 F.R.L. : RL 455.60 M
 Dead Storage Level : RL 447.00 M
 Gross Storage at FRL : 59.603 MCM
 Live Storage : 48.973 MCM
 Dead Storage : 10.63 MCM
 No. of villages affected : Total 09, 03 (fully), 06 (Partially)
 No. of families affected : 1040 Nos
 No. of persons affected : 4153 Nos
 Water spread area at FRL : 1265.98 Ha
 Government Land : 84.167 Ha
 submergence area
 Private Land submergence area : 978.65 Ha
 Forest submergence area : 203.126 Ha
6. Dam Data
 Type of dam : Homogenous
 Length of Dam : 2395 M
 Top width of dam : 6.00 m
 Maximum Height above ground Level : 22.109 m
7. Waste Weir Data
 Type of Waste weir : Ogee type
 Length of waste weir : 72.50 M
 Deepest foundation level : 436.50 M
 Crest Level : 451.60 M
 Maximum Discharging capacity : 2826.86 Cumecs

8	Sluice Details		
	Sluice Number	:	2
	Sill level (EI-m)	:	RL 447.00 M
	Size	:	1.50 m x 2.0 m
	Discharging capacity (m ³ /s)	:	5.25 cumecs
	Size of gate (m x m)	:	2.00 m x 2.00 m
9	Canal System	:	Flow through pressurized pipe canal
	G.C.A. Available	:	16470 Ha
	C.C.A. Available	:	9990 Ha
	Kharif	:	00 Ha
	Rabi	:	9990 Ha
10	Water Utilization		
	Water Requirement for irrigation	:	34.742 MCM
	Evaporation Losses	:	9.611 MCM
	Environment Release	:	4.50 MCM
	Drinking Water Supply	:	Nil
11	Cost Estimates		
	Unit – I Head Work	:	Rs. 2255.40 Lakhs
	Unit – II Canal Work	:	Rs 1576.10 Lakhs
	Total	:	Rs. 3831.50 Lakhs

The case was presented by the PP in 286th SEAC meeting dated 28/01/2017 for issuing of TOR to carryout EIA studies with site specific details. It was informed by the Engineer in chief of the project that final survey has been carried out and CCA is 9990 ha. 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 203.126 ha dense teak forest area, FC clearance has to be obtained. PP should indicate the status of FC clearance in EIA report.
2. Proposed CCA is 9990 ha. However, this TOR will become invalid if CCA goes beyond 10,000 ha at any point of time.
3. Study of alternative sites considered should be discussed in the EIA report.
4. Since three villages are in submergence productivity study of these village lands which will be submerged should be studied and discussed in the EIA report.
5. If there is any mining activity in the area, same should be discussed in the EIA report.
6. Being pipeline project, precautions proposed to avoid seepage/leakage etc should be discussed in the EIA report along with the technical provisions for seepage/leakage detection,

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.
10. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
11. The potential risks and threats associated with the dam when it reaches FTL to the nearby villages should be discussed in the EIA.

PP has submitted the EIA report vide letter dated 04/10/2018 which was forwarded through SEIAA vide letter no. 1616 dated 26/10/2018.

EIA was presented by the PP and their consultant during presentation it was recorded that 203.126 ha of forest land is involved in this project for which PP has already applied for FC clearance vide proposal No. FP/MP/IRRIG/30739/2017. PP has submitted the following salient features of this project:

Public Hearing:

Public hearing was neither warranted nor carried out in the wake of MoEF&CC EIA Notification dated 14.8.2018, in so far as, all irrigation projects with CCA > 2000 ha and < 10000 ha shall be treated as 'B2' and shall be apprised on the basis of EMP. Therefore, the project (CCA 9990ha) falls in category 'B2'. As per para 7(III) Stage 3(i)(f)- Public consultation, EIA notification dated 14.9.2006, all category 'B2' projects and activities are exempted from public hearing.

Irrigation Planning:

At present the area cultivated for Rabi is only 4107 ha which implies that about 5883 ha area is not being sown. The crop intensity has been adopted as 100% of the CCA (9990 ha). Based on Modified Pen Man method for each ten daily during growing season the crop water requirement has been assessed as 36.45 MCM. Micro irrigation by sprinkler system shall be adopted in the entire command area.

The command area to be benefited through left and right pressurized system lies on both bank of river Tem and is completely covered under 7 villages in Tehsil Berasia of district Bhopal and under 62 villages in Tehsil Maksundangarh of district Guna. The predominant slope of the

tract of command is between 0-2 degree (59.48%), 2-5 degree (34.98%),5-10 degree (5.06%) and above 15 degrees (0.11%). The dominating classes are, agriculture (84.65%), open scrub (6.48%), settlement (2.40%), dense forest (3.19%), open forest (3.05%) and water body (0.23%).

Hydrology/Water availability:

Tem River originates from Lateri in Vidisha district of Madhya Pradesh at an elevation of 511 masl and drains a gross catchment of 297.95 sq. km. up to the project site and joins Parbati River near village Kaharpura. The 50%, 75% and 90% dependable yield from Tem has been assessed as 81.19 MCM, 48.973 MCM and 39.71MCM. The sediment rate in Chambal basin 0.75acre feet/sq. mile/year has been adopted. The peak value of flood hydrograph comes out as 2826.86 cumecs.

Environment Management Plans

S. No.	Plans	Total Cost (Rs. Lakh)	Capital Cost (Rs lakh)	Annual Recurring (Rs lakh)
1.	Catchment Area Treatment Plan	1105.00	865.00	80.00
2	Command Area Development Plan	7225.00	5725.00	500.00
3.	Compensatory Afforestation Scheme	2379.00	2178.00	67.00
4.	Wildlife and Bio-diversity Management plan	25.00	20.50	1.50
5.	Fisheries Management Plan	195.00	191.10	1.30
6.	Resettlement & Rehabilitation Plan	8575.00	8575.00	0.00
7.	Green Belt Development Plan	47.00	38.00	3.00
8.	Reservoir Rim Treatment Plan	30.00	28.50	0.50
9	Muck Management Plan	12.00	9.60	0.80
10.	Landscape and Restoration Plan	5.00	3.50	0.50
11.	Restoration Plan for Quarry Sites	18.00	12.90	1.70
12.	Disaster Management Plan	15.00	15.00	0.00
13.	Water, Air and Noise Pollution Management	16.00	8.80	2.40
14.	Public Health Delivery Plan	75.00	15.00	20.00
15.	Labor Management Plan	18.00	6.00	4.00
16.	Sanitation and Solid Waste Management	54.00	30.00	8.00
17.	Local Area Development Plan	192.00	192.00	0.00
18.	Environmental Safeguards	20.00	5.00	5.00
19.	Energy Conservation Measures	20.00	6.05	4.65

20.	Environmental Monitoring Plan	27.00	3.00	8.00
	Grand Total	12828.00	12202.95	208.35

PP submitted that as per MoEF&CC EIA notification dated 14.8.2018, all irrigation projects with CCA > 2000 ha and < 10000 ha shall be treated as 'B2' and shall be appraised on the basis of EMP and being the B2 project they have not conducted the public hearing. After detail discussion, committee has asked the PP to submit the following information:

1. Copy of the application submitted for the FC clearance as diversion of forest land is involved in this project.
2. Contour Map of this project site.
3. Inventory of the trees that will uproot.
4. Catchment area treatment plan is to be submitted by the PP.
5. Details of the PAF and PAP i.e. complete R and R is to be submitted.
6. Copy of section 11 gazette notification.
7. NOC from the concerned Gram Panchayat through which the pipelines are passing.

PP vide letter dated 04/12/2018 has submitted reply of the above query. The query reply was presented by the PP and after deliberations, the submissions and presentation made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of Prior Environment Clearance for TEM Medium Irrigation Tank Project at Khasra no. 1, 2, 4, 5, 7, 19, 20, 24, 25, 26, 27, 28, 42, 43 Village – Dapkan, Khedli, Beragarh, District - Vidisha (M.P.) GCA Available – 16470 Ha., CCA Available – 9990 Ha., Cat. 1(c) River Valley and Hydroelectric Projects with following special conditions after obtaining FC clearance from the competent authority:

(A) PRE-CONSTRUCTION PHASE

1. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
2. Adequate arrangement to prevent incidence of any endemic health problem due to water /soil borne diseases shall be provided.
3. Adequate provisions for re-vegetation, dressing, resurfacing of burrow pits etc. should be ascertained for protecting soil erosion due to runoff during rain.
4. 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.

5. 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.
6. PP will obtain other necessary clearances/NOC from respective authorities.
7. As 203.126 ha of forest land involved in this project, PP shall obtain necessary NOC from MoEF & CC from Delhi.
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. All the electrical appliances and digging should be minimum 15 meters away from any permanent structure.

14. 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.
15. No muck disposal shall be done outside of the project site.
16. Wild life management plan shall be implemented after the approval of competent authority.
17. DG sets shall be provided with acoustic enclosures to maintain the noise level within the prescribed limits.
18. 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.
19. Plantation in patches in suitable land 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.
20. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
21. Waste oil & grease generated from the pumps and standby DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
22. The soil removed during the excavation will be stacked separately and will be used for the green belt development only.
23. It is proposed by PP that plantation in 10 hectare in several patches in non forest waste land will be done subject to availability of suitable land.
24. The provisions of CAT should be executed & completed prior to the filling of the reservoir.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

25. Plantation shall be carried out by the PP as per submitted plan in the command area or on available degraded land.
26. 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.

27. Efficient irrigation systems should be promoted in the command area as Social Responsibility by the trained staff of the department.
28. Periodic soil/water testing shall be carried out in the command area and report to be submitted to Ministry of Agriculture with essential remarks.
29. Use of Solar Energy with LED light arrangement in the pump house, site, office building should be promoted in the project area where ever possible.
30. An energy audit for energy conservation can be performed in pump site, office building, to reduce energy expense and carbon footprints.
31. All leakages will be cleaned out in the pump house to prevent wastage of water with the prescribe procedures in the regular intervals.
32. The public toilets should be made in optimum numbers so that entire command area and site should be open defecation free (ODF).
33. 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.
34. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
35. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
36. The project authorities should comply following provisions/ conditions made in the Construction and Demolition Waste Management Rules, 2016.

(D) ENTIRE LIFE OF THE PROJECT

37. A budgetary provision of Rs. 12828.00 Lakh is made for Environmental Management Plan.
38. A budgetary provision of Rs 25.00 lakh for wildlife and biodiversity management plan.
39. Wildlife management plan shall be implemented after the approval of competent authority.
40. 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.
41. 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.
42. All commitments pertaining to public hearing shall be mandatory on part of PP.

43. 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.
44. 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.
45. 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.
46. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
47. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

2. Case No. – 5546/2017 Executive Engineer, Water Resource Division, Near Harsud Naka, Civil Line, Khandwa, Distt.,- Khandwa (M.P.) 450001. Prior Environment Clearance for BHAM (Rajgarh) Medium Project of Gross Command Area (GCA) 9000 ha., Culturable Command Area (CCA) 6100 ha at Khasra no.- 234/1, 233/1, Vill. – Semlya, Rajgarh, Tehsil. - Khandwa, Distt. – Khandwa (M.P.). Cat. 1(c) River Valley and Hydroelectric Projects. Env. Consultant- Voyants Solutions Pvt. Ltd. Gurgaon.

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.

The case was presented by the PP in 290th SEAC meeting dated 22/05/2017, wherein it was informed by them that have already collected the data. Committee after deliberations decided that monsoon data should also be collect for this project and recommend standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TORs:

1. Since project involves 101 ha forest area, FC clearance has to be obtained. PP should indicate the status of FC clearance in EIA report.

2. Study of alternative sites considered should be discussed in the EIA report.
3. If there is any mining activity in the area, same should be discussed in the EIA report.
4. Being pipeline project, precautions proposed to avoid seepage/leakage etc should be discussed in the EIA report.
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. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
9. The potential risks and threats associated with the dam when it reaches FTL to the nearby villages should be discussed in the EIA.

PP has submitted the EIA report vide letter dated 05/10/2018 which was forwarded through SEIAA vide letter no. 1618 dated 26/10/2018

EIA was presented by the PP and their consultant during presentation it was recorded that 148.75 ha of forest land is involved in this project for which PP vide letter dated 20.11.2017 has already applied for FC clearance vide proposal No. FP/MP/IRRIG/28817/2017. The stage -1 clearance for diversion of 148.75 ha Forest land for construction of project has been accorded on 2.11.2018. PP has submitted the following salient features of this project:

The project shall encompass the following components: -

- 3108 m long composite dam comprising of maximum height of 16.50 m zonal earthen dam;
- 148 m wide spillway;
- 7.50 km and 5.50 km long two rising main
- Distribution network of 10 minors (44.50km).
- The cost of project is Rs 228.117 crores and B.C. Ratio-1.67:1

The major geological formations of the region are Deccan trap basalts. Geomorphic features like flood plain, alluvial plain, valley fills, inter mountain depression, pediment (volcanic) are also seen. The project site is located in seismic Zone III. The water requirement (200kld) for construction shall be mainly met from the river water and the domestic/drinking water from underground sources. The total raw material requirement for coarse and fine aggregate and boulder comes to 0.935lakh cum, 0.67 lakh cum and 7.33 lakh cum earth and 0.50 lakh

cum COT material respectively. About 200 persons shall be employed during peak construction phase. None of the plant species reportedly found in the study area falls under any of the IUCN Red list of Threatened Species Version 2014.3. Among recorded mammals none belonged to “Schedule-I” category of Indian Wildlife Protection Act (1972).

Irrigation Planning:

Based on the DPR, the command area under 14 villages is being cultivated in Rabi and Kharif crop seasons, though the area sown in Kharif and Rabi is 12.35% and 4% respectively. The crop intensity during Rabi crop has been adopted as 100% of the CCA (6100 ha). Based on Modified Pan Man method for the crop water requirement has been assessed as 25.71 MCM. Micro irrigation by sprinkler system shall be adopted in the entire command area.

The command area to be benefited from the project lies on either bank of Bham river and is completely covered in Pandhana block of District Khandwa. The predominant slope of the tract of gross command is between 0-5 degree (96.13%), 5-10 degree (3.69%), 10-15 degree (0.17%) and above 15 degrees (0.01%). The dominating classes are, agriculture (87.72%), open scrub (8.12%), settlement (3.25%) and water body (0.91%). The physico-chemical analysis of soil manifests that the soils are neutral to slightly alkaline in soil reaction with pH values ranging between 7.33 to 7.83. EC values vary between 0.187 to 0.275 ds/m i.e. far less than 4ds/m and are neither saline nor sodic.

Hydrology/Water Availability:

Bham River rises in District Khandwa from Teliyadhar Reserved Forest at an elevation of 455 masl and drains a gross catchment of 193.46 sq. km up to the project site. The 50%, 75% and 90% dependable yield from Bham has been assessed as 43.16 MCM, 31.14 MCM and 26.55 MCM. The sediment rate of 476 cum/sq. km/year has been adopted. The peak value of flood hydrograph comes out as 2693.93 cumecs. Main geological units of the area are Archaean, Upper Vindhyan, Bagh beds, Deccan traps and alluvium. As per Ground water development Pandhana block is categorized as safe. Out of 30 years there were no spills in two years only i.e. there were two failure years. It is also manifest that out of total net inflows of 1417.8 MCM for 30 years the spill quantity was 664.8 MCM, which is almost 46.9% of the inflow i.e. The release on downstream is more than 30% of flow during monsoon season.

Public Hearing:

Public hearing was neither warranted nor carried out in the wake of MoEF&CC EIA Notification dated 14.8.2018, in so far as all irrigation projects with CCA > 2000 ha and < 10000 ha shall be treated as 'B2' and shall be appraised on the basis of EMP. Therefore, the project (CCA 9990ha) falls in category 'B2'. As per para 7(III) Stage 3(i)(e)- Public consultation: EIA notification dated 14.9.2006, all category 'B2' projects and activities are exempted from public hearing.

Environment Management Plan:

S.No.	Plans	Total Cost (Rs. Lakh)	Capital Cost (Rs lakh)	Annual Recurring (Rs lakh)
1.	Catchment Area Treatment Plan	500.00	401.00	33.00
2.	Command Area Development Plan	4538.00	3578.00	320.00
3.	Compensatory Afforestation Scheme	1802.00	1682.00	40.00
4.	Wildlife and Bio-diversity Management plan	25.00	20.50	1.50
5.	Fisheries Management Plan	128.00	125.30	0.90
6.	Resettlement & Rehabilitation Plan	6190.00	6189.90	0.00
7.	Green Belt Development Plan	41.00	36.50	1.50
8.	Reservoir Rim Treatment Plan	24.00	24.00	0.00
9.	Muck Management Plan	29.00	24.80	1.40
10.	Landscape and Restoration Plan	4.00	2.50	0.50
11.	Restoration Plan for Quarry Sites	12.00	8.40	1.20
12.	Disaster Management Plan	15.00	15.00	0.00
13.	Water, Air and Noise Pollution Management	16.00	8.80	2.40
14.	Public Health Delivery Plan	65.00	20.00	15.00
15.	Labor Management Plan	10.00	4.00	2.00
16.	Sanitation and Solid Waste Management	25.00	13.00	4.00
17.	Local Area Development Plan	114.00	114.00	0.00
18.	Environmental Safeguards	12.00	7.50	1.50
19.	Energy Conservation Measures	12.00	2.40	3.20
20.	Environmental Monitoring Plan	26.00	2.00	8.00
	Grand Total	9050.00	8701.60	116.10

PP submitted that as per MoEF&CC EIA notification dated 14.8.2018, all irrigation projects with CCA > 2000 ha and < 10000 ha shall be treated as 'B2' and shall be apprised on the basis of EMP and being the B2 project they have not conducted the public hearing. After detail discussion, committee has asked the PP to submit the following information:

1. Copy of the application submitted for the FC clearance is to be submitted.
2. Inventory of the trees that will uproot.
3. Justification regarding existence of sal tree in the project area.
4. Catchment area treatment plan is to be submitted by the PP.
5. Details of the PAF and PAP i.e. complete R & R is to be submitted.
6. NOC from the concerned Gram Panchayat through which the pipelines are passing.
7. Copy of challan submitted for R&R.

3. Case No. - 5022/16 Superintending Engineer, O/o Engineer-in-Chief, Water Resources Department, Jal Sansadhan Bhawan, Tulsi Nagar, Bhopal (M.P.). 462003. Prior Environment Clearance for Dindori Irrigation Project in CCA of 9922 ha., at Village-Bithalkeh, Jadasurang, Tehsil-Dindori, Distt.-Dindori (M.P.). Cat. 1 (c) River Valley and Hydroelectric Projects. Env. Consultant- Voyants Solutions Pvt. Ltd. Gurgaon.

The proposed site is located about 90 K.m. from Dindori Latitude 22* 40' 46.70" N Longitude 81*27'13.8" E. The total percentage of irrigation of dindori district is very low that is 2.38 %. The local people of this area are also pursuing time to time for providing irrigation facilities.

To fulfill the demand of local people project is proposed. Catchment Area of the proposed dam is 283.37 Sq. Km. 75% dependable monsoon yield is 101.80 MCM. The project has been proposed for irrigation & drinking water for Karanjiya Janpad Panchayat and Villages under command. 82 Villages comes under the command area of Karanjiya, Bajag & Dindori Block. CCA of this project 9922 Hectare.

The area under submergence is 1354.17 Hectare which affects 2 villages fully & 4 villages partially. 2 MCM water is kept for drinking purpose & 5 MCM water kept for environment releases.

Introduction of the Project/Background Information

The project is proposed for irrigation purpose only and is a Earthen Dam along with gated Right Flank spillway. The profession of the people of this area is based on agriculture; the

area comes under draught prone area. The percentage of irrigation of this district is very low that is 3.28 %. To improve the percentage of irrigation, Dindori Irrigation project is proposed for development of the irrigation percentage of this area.

Employment Generation (Direct and Indirect) due to the project

Direct - 15 Lakh Man days

Indirect - 35 lakh man Days

Catchment Area of the proposed dam is 283.37 Sq. Km. 75% dependable monsoon yield is 101.80 MCM. The project has been proposed for irrigation & drinking water for Karanjiya Janpad Panchayat and Villages under command. 82 Villages comes under the command area of Karanjiya, Bajag & Dindori Block. CCA of this project 9922 Hectare. The area under submergence is 1354.17 Hectare which affects 2 villages fully & 4 villages partially. 2 MCM water is kept for drinking purpose & 5 MCM water kept for environment releases.

The case was earlier discussed in the 273rd SEAC meeting dated 01/04/2016 wherein it was decided that the PP may carry out EIA studies as per the standard TOR issued by MoEF&CC. Any additional TOR may be issued / information sought, as necessary after detailed presentation of the project by the PP during next meeting of the committee.

The case was presented by the PP for TOR in 274th SEAC meeting dated 12/04/2016 with site specific details. The committee after deliberations decided that following additional TORs be prescribed to the PP 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. Details of compensations proposed for the persons residing in the downstream of dam who are to be deprived of water from project.
3. Cost benefit analysis including environmental factors should be included in the EIA study.
4. L-section details of dam should be provided in the EIA report.
5. Existing and proposed agricultural practices should be discussed in the EIA report.
6. Data already collected can be used in the EIA report.
7. Green belt plan and catchment area treatment plan be provided in the EIA report.
8. Inventory of existing trees and their management should be provided in the EIA report.

PP has submitted the EIA report vide letter dated 06/09/2018 which was forwarded through SEIAA vide letter no. 1546 dated 16/10/2018

EIA was presented by the PP and their consultant. PP has submitted the following salient features of this project:

Dindori medium Irrigation project has been conceived by Water Resource Department, Madhya Pradesh across river Seoni, a left bank tributary of the Narmada, in Block Karanjiya and Tehsil Dindori, District Dindori, with a view to impound 92.73 MCM of monsoon discharge of the river and out of it harness 39.5 MCM for providing irrigation facility to 9920 ha in its own command during Rabi at 95% irrigation intensity. Apart from this 2.00 MCM has been earmarked for drinking water use and 3.0 MCM for environmental flow.

The proposed dam site is located near Bithaldeh and Jarasurang village across Seoni River, a left bank tributary of the Narmada, at latitude 22°40'46.7"N & longitude 81°027'13.8"E and geographically covered under SOI Topo Sheet No. 64 F/6. The project site falls in Karanjiya&Bajag blocks in Tehsil Dindori. Geographically the command area is spatially covered under SOI toposheet 64 F-6 and 64 F-5. The project site can be approached by traveling approximately 90 km from Dindori via SH-22 and from Gorakhpur up to BitaldahRyt via link road. It can also be accessed from m Bajag via ODR and link road.

Project Features

The project shall encompass the following components: -

- Composite dam comprising of 4230 m long with maximum height of 31.878 m homogeneous earthen dam;
- 123.5 m long spillway;
- Non-over-flow sections of 20 m length each on right and left of spillway;
- Two RCC barrel type irrigation sluice (1.6m X 1.6m);
- 5.66 km long left bank main canal (MS pipe);
- 3 Number (27.54 ,18.15 and 28.16 km)
- Cost of Project is Rs 384.08 crores and B.C. Ratio is 3.28:1

Irrigation Planning

Based on the district agriculture statics, the command area under 44 villages is being cultivated in Rabi and Kharif crop seasons. The crop intensity during Kharif and Rabi being 97.23% and 62.41% respectively. The crop intensity during Rabi crop has been adopted as 100% of the CCA (9425 ha). Based on Modified Pan Man method the crop water requirement has been assessed as 39.76 MCM. Micro irrigation by sprinkler system shall be adopted in the entire command area.

The command area to be benefited from the project lies on left bank of river Seoni and is completely covered in district Dindori under 44 villages of block Karanjia (15) and Bajag (29), Tehsil Dindori. The predominant slope of the tract of command is between 0-2 degree (52.88%), 2-4 degree (35.18%), and 4-8 degree (9.47%) and above 8 degrees (2.47%). The dominating classes are agriculture (90.95%), open scrub (2.55%), settlement (3.13%), dense forest (0.84%), open forest (1.04%) and water body (1.49%). The physic-chemical analysis of soil manifests that the soil is neutral in soil reaction and has EC values far less than 4ds/m and are neither saline nor sodic. As per soil fertility status. The organic matter content of soil varied from 1.05 to 1.39% (0.61 to 0.81% as organic carbon), thereby implying that soils are low to medium in organic content. These are medium in potassium content and low in phosphorus and nitrogen. EC values are far less than 4ds/m and soils are neither saline nor sodic.

Hydrology/Water Availability

Seoni River rises from mountainous range near village BarthanaDadar of Dindori district separating it from Chhattisgarh. The watershed has North Slope of Satpura. The river drains a total area of 283.37sq km in Karanjia block, before It joins the Narmada on its left bank near Gorakhpur. The 50% ,75% and 90% dependable yield from Seoni has been assessed as 104.27MCM, 81.94 MCM and 55.89 MCM. The sediment rate of 0.04762 Ham/sq.km/year has been adopted. The peak value of flood hydrograph comes out as 3000.48 cumecs. Dindori comprises of the prominent aquifer of Basalt (7546 sq.km), followed by Shale (332sq.km), Gneiss (253sq.km), Granite (28 sq.km) and Schist (6sq.km). As per Ground water development Karanjia and Bajag blocks are categorized as safe. Out of 30 years there were spills in every year. It is also manifest that out of total net inflows of 3428.67 MCM for 30 years the spill quantity was 1490.01 MCM, which is almost 43.45% of the inflow i.e. The release on downstream is more than 30% of flow during monsoon season.

Public Hearing

Public hearing was neither warranted nor carried out in the wake of MoEF&CC EIA Notification dated 14.8.2018; in so far as all irrigation projects with CCA > 2000 ha and < 10000 ha shall be treated as 'B2' and shall be appraised on the basis of EMP. Therefore, the project (CCA 9990ha) falls in category 'B2'. As per para 7(III) Stage 3(i)(f)- Public consultation, EIA notification dated 14.9.2006, all category 'B2' projects and activities are exempted from public hearing.

Environment Management Plans

S. No.	Plans	Total Cost (Rs. Lakh)	Capital Cost (Rs lakh)	Annual Recurring (Rs lakh)
1.	Catchment Area Treatment Plan	900.00	699.00	67.00
2	Command Area Development Plan	6771.00*	5376.00	465.00
3.	Compensatory Afforestation Scheme	0.00	0.00	0.00
4.	Wildlife and Bio-diversity Management plan	25.00	20.50	1.50
5.	Fisheries Management Plan	196.00	192.25	1.25
6.	Resettlement & Rehabilitation Plan	10530.00	10530.00	0.00
7.	Green Belt Development Plan	37.00	32.50	1.50
8.	Reservoir Rim Treatment Plan	36.00	36.00	0.00
9	Muck Management Plan	224.00	14.00	70.00
10.	Landscape and Restoration Plan	4.00	2.50	0.50
11.	Restoration Plan for Quarry Sites	0.00	0.00	0.00
12.	Disaster Management Plan	15.00	15.00	0.00
3.	Water, Air and Noise Pollution Management	16.00	8.80	2.40
14.	Public Health Delivery Plan	75.00	30.00	15.00
15.	Labor Management Plan	18.00	9.00	3.00
16.	Sanitation and Solid Waste Management	54.00	33.00	7.00
17.	Local Area Development Plan	135.00	135.00	0.00
18.	Environmental Safeguards	20.00	3.50	5.50
19.	Energy Conservation Measures	20.00	6.05	4.65
20.	Environmental Monitoring Plan	28.00	4.00	8.00
Grand Total		12333.00	11771.10	187.30

PP submitted that as per MoEF&CC EIA notification dated 14.8.2018, all irrigation projects with CCA > 2000 ha and < 10000 ha shall be treated as 'B2' and shall be appraised on the basis of EMP and being the B2 project they have not conducted the public hearing. PP further

submitted that no forest land is involved in this project. After detail discussion, committee has asked the PP to submit the following information:

1. Revised R & R table incorporating number of houses, families affected by this project is to be submitted.
2. Copy of the Map of R & R site and details about its present status with its cost estimation.

4. Case No. - 5486/2016 Shri M. G. Chobey, Engineer-in-Chief, Water Resources Department, Office of Engineer-in-Chief, Tulsi Nagar, Bhopal, (M. P.). – 462003. Prior Environment Clearance for BHAWSA Medium Irrigation Tank Project at Forest Zone Compartment No. RF 433, 435, 436, Village - Naichondi, Tehsil & District - Burhanpur (M.P.). Live Capacity – 13.64 Mcum, Command Area – 4030 Ha., Designed Area – 3750 Ha., Cat. 1 (c) River Valley and Hydroelectric Projects.ENV Developmental Assistance Systems Pvt. Ltd, Lucknow.

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.

Bhawsa Medium Irrigation Tank Project is proposed on river Amrawati, a tributary of river Tapti, near Bhawsa village of Tehsil Burhanpur, District Burhanpur located at Latitude 21°09'52'' and Longitude 76°19'07''. The Project is envisaged to have a live storage capacity of 13.64 MCM. Total CCA of the Project is 3750 ha, benefitting 10 villages of Burhanpur District. Total cost of the project is Rs. 123.20 Crore.

Location Details

S. No	Details	BHAWSA MEDIUM IRRIGATION TANK PROJECT
1	Latitude	21°09'52''
2	Longitude	76°19'07''
3	State	Madhya Pradesh
4	District	Burhanpur
5	Tehsil & Block	Burhanpur
6.	River	Amrawati
7.	Accessibility	At a distance of 26 Km from Burhanpur.

SITE SELECTION CRITERIA FOR PROJECT AREA

PARTICULARS	REMARKS
Existing infrastructure	<ul style="list-style-type: none"> • Rail Connectively – Burhanpur (26 Km.) • NH Accessibility – Julwaniya (Distt : Khargone) (215 Km.) • Airport facility – Indore (212 Km.)
Resources Availability	<ul style="list-style-type: none"> • Water– From Amarawati River • Cement / Steel – Burhanpur (26 Km.) • Metal –Jainabad (24 Km.) • Sand - Bhawsa (5 Km.) • Soil for Earthen Dam – From the Submergence area (2-4 Km) • Human Resource for Masonry Work – Locally Available
Environmental consideration (within 10 km radius from proposed project site)	<ul style="list-style-type: none"> • No National Park/Wild Life Sanctuary/Biosphere Reserve. • No Eco sensitive zone • No Critically/ severely polluted areas • No Interstate boundary

HYDROLOGY

- Catchment area of the river at dam site is 76.80 sq km.
- 75% dependable yield is worked out as 13.64 MCM.
- Designed Flood has been worked out by Synthetic Unit Hydrograph approach (CWC, Sub zone, 3b) as 756 cumecs.
- Burhanpur district is in Earthquake zone-III.

S.No	Particulars	Value
1.	Gross Catchment Area (Sq km)	76.80
2.	Average Annual Rainfall (mm)	875.86
3.	Designed flood (Cumecs)	756
4.	Net 75% dependable yield (MCM)	13.64

The case was presented by the PP in 286th SEAC meeting dated 28/01/2017 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 269.31 ha forest area, FC clearance has to be obtained. PP should indicate the status of FC clearance in EIA report.
2. Study of alternative sites considered should be discussed in the EIA report.
3. If there is any mining activity in the area, same should be discussed in the EIA report.

4. Being pipeline project, precautions proposed to avoid seepage/leakage etc should be discussed in the EIA report.
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. Details of area under submergence should be discussed in the EIA along with details of incremental benefits associated with this project.
9. The potential risks and threats associated with the dam when it reaches FTL to the nearby villages should be discussed in the EIA.

PP has submitted the EIA report vide letter dated 22/09/2018 which was forwarded through SEIAA vide letter no. 1548 dated 16/10/2018

EIA was presented by the PP and their consultant. PP has submitted the following salient features of this project:

Salient feature of the Project: Salient features of Bhawsa Damare detailed in the table below;

(A)	Location	
1	Topo Sheet No.	55-C/8,55-C/4
2	Latitude / Longitude	21 ⁰ -09'-52"/76 ⁰ -19'-07"
3	River/ Situation	Amravati River/ Near Naichondi Village
(B)	Hydrology	
1	Catchment Area	76.80 Sq. Km.
2	Maximum Annual Rain/Minimum Annual Rain Fall	1259.00 mm./ 514.00mm.
3.	Average Annual Rain Fall	875.86mm.
4	Design Flood (PMF) as per Flood Hydrograph	963.81 Cumecs
5.	75% Dependable Yield	13.64 MCM
(c.)	Reservoir Data	
1	T.B.L. / M. W.L	322.25 m/320.25m
2	F.R.L.	317.75m.
3	New Zero Elevation RL	303.67
4	River Bed Level	294.00 m.
5	Gross Storage at FRL	16.38 MCM
6	Live Storage / Dead Storage	13.64 MCM/2.742MCM
7.	No. of Villages Affected	Nil
8	Water Spread Area at FRL	256.73 ha
9	Revenue Submergence Area	Nil.

10.	Forest Submergence Area	271.76 ha												
11	private land Submergence	Nil												
(D)	Earth Dam													
1.	Total Length of Dam	1220 m.												
	a) Left Flank	975 m.												
	b) Right Flank	245 m.												
2.	Top Width of Dam	6.00 m.												
3.	Top of Dam (R.L.)	322.25 m.												
4.	Maximum height Above G. L.	28.25 m.												
(a)	Overflow Dam													
1	Crest level of Weir (R.L)	317.75 m.												
2	Length of Weir/ No. of Gates	140m/ Ungated												
(E)	Canal System (Irrigation)													
1	Length of gravity main pipeline canal	700 m having diameter 1.10 m- 1.41 cumecs RBC pipe canal -6.095 m- 0.94 cumecs LBC pipe canal- 3.205m- 0.47 cumecs												
2	proposed irrigation													
	a) Rabi	3750 ha.												
1.	wheat (Olv) 25%	938 ha.												
2.	Gram N2Ra 75%	2812ha.												
	Total 100%	3750 ha.												
	Annual	3750 ha.												
	Intensity of Irrigation	100%												
(F)	Cost													
1	Estimated Cost	Rs. 12320.24 Lacs												
2	Cost per Ha.	Rs. 3.28 Lacs												
3	B.C. Ratio(at 10 % interest)	1.67												
4	Cost per ha. Without 'B' Land	2.05 lacs												
5	Cost per Ha. on Designed Irrigation	3.28 lacs												
6	Command area	<table border="1"> <tr> <td>Canal</td> <td>GCA(ha)</td> <td>CCA(ha)</td> </tr> <tr> <td>LBC</td> <td>2662</td> <td>912</td> </tr> <tr> <td>RBC</td> <td>4138</td> <td>2812</td> </tr> <tr> <td>Total</td> <td>6200</td> <td>3750</td> </tr> </table>	Canal	GCA(ha)	CCA(ha)	LBC	2662	912	RBC	4138	2812	Total	6200	3750
Canal	GCA(ha)	CCA(ha)												
LBC	2662	912												
RBC	4138	2812												
Total	6200	3750												

Environment Management Plan

S. No.	Items	Total Cost (in Lakh)
1	Resettlement & Rehabilitation Plan	0.00
2	Catchment Area Treatment Plan	139.0
3	Command area Development plan	0.00
4	Compensatory Afforestation Plan	2261.99
5	Reservoir Rim Treatment Plan	5.00
6	Muck Disposal Plan	5.00
7	Green Belt development Plan	10.0

8	Landscape and Restoration Plan	10.0
9	Disaster Management Plan	25.0
10	Restoration Plan for Quarry site	25.0
11	Water, Air and Noise Management Plan	25.0
12	Labour Management Plan	5.0
13	Local Area Development Plan	15.0
14	Sanitation and Solid waste management Plan	15.0
15	Energy Conservation Measures	15.0
16	Environmental Monitoring Plan	3.0
17	Environmental safeguards during construction Phase	20.0
Grand Total		2578.99

PP stated that, in the proposed Bhawsa Medium Irrigation project, Resettlement & Rehabilitation is not proposed as the land acquired will not cause eviction of villagers. PP further submitted that they have obtained stage-I forest clearance and submitting the copy of letter issued by the competent authority. After detail discussion, committee has asked the PP to submit the following information:

1. Inventory of the trees that to be uprooted.
2. Number of beneficiary in the command area and village wise CCA.
3. Revised EMP as suggested by the committee.

PP vide letter dated 04/12/2018 has submitted reply of the above query. The query reply was presented by the PP and after deliberations, the submissions and presentation made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of Prior Environment Clearance for BHAWSA Medium Irrigation Tank Project at Forest Zone Compartment No. RF 433, 435, 436, Village - Naichondi, Tehsil & District - Burhanpur (M.P.). Live Capacity – 13.64 Mcum, Command Area – 4030 Ha., Designed Area – 3750 Ha., Cat. 1(c) River Valley and Hydroelectric Projects with following conditions:

(A) PRE-CONSTRUCTION PHASE

1. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
2. Adequate arrangement to prevent incidence of any endemic health problem due to water /soil borne diseases shall be provided.
3. Adequate provisions for re-vegetation, dressing, resurfacing of burrow pits etc. should be ascertained for protecting soil erosion due to runoff during rain.

4. 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.
5. 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.
6. PP will obtain other necessary clearances/NOC from respective authorities.
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.

(B) CONSTRUCTION PHASE

9. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
10. Fire extinguishers should be provided on site during construction/ plant erection period.

11. 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.
12. All the electrical appliances and digging should be minimum 15 meters away from any permanent structure.
13. 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.
14. DG sets shall be provided with acoustic enclosures to maintain the noise level within the prescribed limits.
15. 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.
16. Plantation in patches in suitable land 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.
17. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
18. Waste oil & grease generated from the pumps and standby DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
19. The soil removed during the excavation will be stacked separately and will be used for the green belt development only.
20. It is proposed by PP that plantation in 10 hectare in several patches in non forest waste land will be done subject to availability of suitable land.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

21. Plantation shall be carried out by the PP as per submitted plan in the command area or on available degraded land.
22. 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.
23. Efficient irrigation systems should be promoted in the command area as Social Responsibility by the trained staff of the department.

24. Periodic soil/water testing shall be carried out in the command area and report to be submitted to Ministry of Agriculture with essential remarks.
25. Use of Solar Energy with LED light arrangement in the pump house, site, office building should be promoted in the project area where ever possible.
26. An energy audit for energy conservation can be performed in pump site, office building, to reduce energy expense and carbon footprints.
27. All leakages will be cleaned out in the pump house to prevent wastage of water with the prescribe procedures in the regular intervals.
28. The public toilets should be made in optimum numbers so that entire command area and site should be open defecation free (ODF).
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. 3029.90 Lakh is made for Environmental Management Plan.
34. Wildlife management plan shall be implemented after the approval of competent authority.
35. No muck disposal shall be done outside of the project site.
36. 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.
37. 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.
38. All commitments pertaining to public hearing shall be mandatory on part of PP.
39. 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.

40. 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.
41. 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.
42. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
43. 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. - 5264/2016 Executive Engineer, Office of Executive Engineer, Water Resources Department, Hiren Water Resources Division, Jabalpur (M.P.). – 482001. Prior Environment Clearance for Hiren Irrigation Medium Tank Project at Village - Baduwa, Tehsil - Kundam (DPAP Block), Distt.- Jabalpur (M.P.). Total Live Storage Capacity- 31.25 Mcm, Cultivable Command Area - 8125 ha., Gross Catchment Area – 91.67 Sq km, Dam Lenth – 810 Meter, Spillway – 96 M, Maximum height of Dam – 39 M. Cat. - 1(c) River Valley and Hydroelectric Projects. Env. Consultant - Voyants Solutions Pvt. Ltd. Gurgaon.

This is case of Hiren Irrigation Medium Tank Project at Village - Baduwa, Tehsil - Kundam (DPAP Block), Distt.- Jabalpur (M.P.) Total Live Storage Capacity- 31.25 Mcm, Cultivable Command Area - 8125 ha., Gross Catchment Area – 91.67 Sq km, Dam Lenth – 810 Meter, Spillway – 96 M, Maximum height of Dam – 39 M.,. The application was forwarded by SEIAA to SEAC for appraisal. The project requires prior EC before commencement of any activity at site under category 1(c).

Location Details

S.No	Details	HIRAN PROJECT
1	Latitude	23°16'30''
2	Longitude	80°21'43''
3	State	Madhya Pradesh
4	District	Jabalpur
5	Tehsil & Block	Kundam

6.	River	Hiran
7.	Accessibility	At a distance of 68 Km from Jabalpur.

BRIEF DESCRIPTION OF THE PROJECT

- Hiran Irrigation Project is proposed on River Hiran, a tributary of river Narmada, near Baduwa village of Tehsil Kundam, District Jabalpur located at Latitude 23°16'30" and Longitude 80°21'43"
- The Project is envisaged to have a live storage capacity of 31.25 MCM.
- 1.06 MCM has been reserved for drinking purpose and 3.00 MCM water is kept reserved for Environmental releases.
- Total CCA of the Project is 8125 ha, benefitting 15 villages of Jabalpur & 39 villages of Katni District.
- Total cost of the project is Rs. 225.99 Crore.

Hydrology (Approved by BODHI)

S.No	Particulars	Value
1.	Gross Catchment Area (Sq km) Intercepted Catchment Area of 1 No U/S Minor Project (Sq km) Net Catchment area (Sq km)	91.67 1.76 89.91
2	Average Annual Rainfall (mm)	1338
3	Designed flood (Cumecs)	1885
4	Net 75% dependable yield (MCM)	31.25

Hydrology

- Net catchment area of the river at dam site is 89.91 sq km.
- 75% dependable yield, for Net Catchment Area, is worked out as 31.25 MCM .
- Designed Flood has been worked out by Synthetic Unit Hydrograph approach (CWC, Sub zone, 3c) as 1885 cumecs.
- Jabalpur district is in Earthquake zone-III.

Reservoir

S.No	Particulars	Value
1.	Top of Bund Level, (m)	R.L. 486.00
2.	MWL , (m)	R.L. 484.00
3.	Full Reservoir Level, (m)	R.L. 482.00
4.	Crest Level (m)	R.L. 479.00
5.	Dead Storage Level, (m)	R.L. 453.00
6.	Deepest River Bed Level, (m)	R.L. 447.00
7.	Top Width of Dam (m)	6.00
8.	Height of Dam, (m)	39.00
9.	Gross storage (MCM)	35.53

10.	Live storage (MCM)	31.25
11.	Dead storage (MCM)	4.28
12.	Length of main Dam, (m)	810.00
13	Length of Spillway, (m)	110.00
14	No. of spillway gates, (m)	9 Nos Vertical gates (10m x 3m)

The case was presented by the PP in 280th SEAC meeting dated 31/08/2016, 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 the project location is near Jabalpur which is earth quake sensitive area thus suitable precautions should be taken up during designing of the dam.
2. Since project involves 54.87 ha 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. 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. During the operational phase of the project, pumping is also proposed thus committee suggested that such a technology be used for pumping of water in which energy consumption is minimum and same should be discussed in the EIA report.
9. The potential risks and threats associated with the dam when it reaches FTL to the nearby villages should be discussed in the EIA.

PP has submitted the EIA report vide letter dated 08/10/2018 which was forwarded through SEIAA vide letter no. 1672 dated 12/11/2018

EIA was presented by the PP and their consultant. PP has submitted the following salient features of this project:

Hiran medium Irrigation Tank project has been conceived by Water Resource Department, Madhya Pradesh across river Hiran, the biggest right bank tributary of the Narmada, in Block

and Tehsil Kundam, District Jabalpur, with a view to impound 31.69 MCM of monsoon discharge of the river and out of it harness 27.34 MCM for providing irrigation facility at 100% irrigation intensity during Rabi to 8125 ha command covering 15 and 39 villages under district Jabalpur and Katni respectively. Apart from this 1.06 MCM has been earmarked for drinking water use and 0.88 MCM for environmental release.

The proposed dam site is located near Badua village across Hiran River, a right bank tributary of the Narmada, at latitude 23°16'30"N and longitude 80°21'43"E and project and command area are geographically covered under SOI Topo Sheet No. 64 A/7. The project site falls in Block in Tehsil Kundam. The project site can be approached by road from Jabalpur upto Kundam by traveling approximately 40 km via SH-22 and from Kundam to Badua via Kushua Dabra by travelling 8 km on Kundam – Baghraj Road.

Project Features

The project shall encompass the following components: -

- Hiran dam comprising of 810m long with maximum height of 39m zonal earthen dam;
- 110 m long weir;
- One RCC barrel type irrigation sluice (1.5m X 2.0m);
- D-shaped 1.65km long tunnel;
- 19.09 km long pressurized main canal (MS pipe);
- 4 Number distributaries.
- Cost of project is Rs225.99 crores and B.C. Ratio is 3.28:1.

For execution of the project 220 ha land, falling in Block and Tehsil Kundam, District Jabalpur, shall be required of which the apportionment between State, Private and forestland shall be 50.67 ha, 111.72 ha and 54.87 ha respectively There are four project affected villages which are being impacted due to acquisition of private land. There shall be 166 affected families of which none shall be displaced families. The land acquisition shall be carried out as per RFCTLARRA 2013. The State Government of Madhya Pradesh vide S. N.22(A)349-44/17/MPS/31/657, dated 6.4.2018 has sanctioned a special package for submergence affected area in case of Hiran Medium Irrigation Project. As per paragraph A(i) G.O. dated 6.4.2018, the purchase/ acquiring cost per hectare of land shall be paid Lump sum @ Rs 10 lakh/ha.

The P.P has on 25.7.2017 submitted on line the application for Forest clearance for diversion of 54.87 ha vide proposal N.O FP/MP/IRRIG/20767/2016. The case for stage -1 clearance for diversion of 54.87ha Forest land for construction of project is pending at State Government level.

The district consists of long narrow plain running from SW to NE and flanked by Bhandrer and Kaimur ranges of VindhyanSupergroup on the west and the various hills and spurs of Mahadev and Maikal range.The project site is located in seismic ZoneI II.The water requirement (200kld) for construction shall be mainly met from the river water and the domestic/drinking water from underground sources. The total raw material requirement for coarse and fine aggregate and boulder comes to 0.25 lakh cum,1.04 lakh cum and 12.40 lakh cum earth and 0.25 lakh cum boulder/stone chips respectively. About 200 persons shall be employed during peak construction phase. None of the plant species reportedly found in the study area falls under any of the IUCN Red list of Threatened Species Version 2014.3.Among recorded mammals none belonged to “Schedule-I” category of Indian Wildlife Protection Act (1972).

Irrigation Planning

At present the crop intensity during Rabi is only 28% which implies that about 72% area is not being sown. The crop intensity during Rabi crop has been adopted as 100% of the CCA (8125 ha).Based on Modified Pen Man method for each ten daily during growing season the crop water requirement has been assessed as 27.35 MCM. Micro irrigation by sprinkler system shall be adopted in the entire command area.

The command area to be benefited from the project lies on right bank of river Hiran and is covered in 15 and 39 villages under district Jabalpur and Katni respectively. The predominant slope of the tract of gross command is between 0-4degree. The dominating land use classes are agriculture, open scrub, settlement and water body. The physic-chemical analysis of soil manifests that the soil is neutral in soil reaction and has EC values ranged between 0.218ds/m to 0.28 ds/m, which is far less than threshold limit of 4ds/m for a soil to be termed as sodic.The soils are neither saline nor sodic.

Hydrology/Water Availability

Hiranriver rises in the Bhanrer range in the Jabalpur district of Madhya Pradesh near the Kundam village at an elevation of 600 m and drains a gross catchment of 91.67 sq. km up to the project site. The 50% , 75% and 90% dependable yield from Hiran has been assessed as 44.07 MCM, 31.25 MCM and 27.99MCM. The sediment rate of 476 cum/sq. km/year has been adopted. The peak value of flood hydrograph comes out as 1885 cumecs. Jabalpur comprises of the prominent aquifer of Basalt followed by Alluvium, Shale, Laterite, Limestone, Schist, BGC, Quartzite, Gneiss and Granite. As per Ground water development Kundam block is categorized as safe. Out of 27 years there were four failure years. It is also manifest that out of total net inflows of 1267.871 MCM for 27 years the spill quantity was 439.97 MCM, which is almost 34.7 % of the inflow i.e. The release on downstream is more than 30% of flow during monsoon season.

Public Hearing

Public Hearing was conducted by the Madhya Pradesh Pollution Control Board on 30th June, 2018 at school in village Badua, tehsil Kundam. The main issues were about adequate compensation to be granted and employment should be given to the residents and farmers of project affected villages.

Environment Management Plans

S. No.	Plans	Total Cost (Rs. Lakh)	Capital Cost (Rs lakh)	Annual Recurring (Rs lakh)
1.	Catchment Area Treatment Plan	505.00	430.00	25.00
2	Command Area Development Plan	5801.00*	5396.00	135.00
3.	Compensatory Afforestation Scheme	623.00	569.00	18.00
4.	Wildlife and Bio-diversity Management plan	25.00	20.50	1.50
5.	Fisheries Management Plan	80.00	79.10	0.30
6.	Resettlement & Rehabilitation Plan	2214.00	2214.00	0.00
7.	Green Belt Development Plan	22.00	15.10	2.30
8.	Reservoir Rim Treatment Plan	21.00	21.00	0.00
9	Muck Management Plan	11.00	2.00	3.00
10.	Landscape and Restoration Plan	4.00	2.50	0.50

11.	Restoration Plan for Quarry Sites	18.00	3.00	5.00
12.	Disaster Management Plan	15.00	15.00	0.00
13.	Water, Air and Noise Pollution Management	16.00	8.80	2.40
14.	Public Health Delivery Plan	65.00	20.00	15.00
15.	Labor Management Plan	10.00	4.00	2.00
16.	Sanitation and Solid Waste Management	25.00	13.00	4.00
17.	Local Area Development Plan	113.00	113.00	0.00
18.	Environmental Safeguards	8.00	0.50	2.50
19.	Energy Conservation Measures	12.00	2.40	3.20
20.	Environmental Monitoring Plan	26.00	2.00	8.00
Grand Total		3813.00	3534.90	92.7

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

1. Since project involves forest area, PP should submit the copy of application submitted for FC Clearance.
 2. Inventory of the trees that to be uprooted.
 3. Catchment area treatment plan is to be submitted by the PP.
 4. Details of the PAF and PAP i.e. complete R & R is to be submitted.
- 6. Case No. - 5128/2016 Shri Surendra Petalia, Executive Engineer, Pancham Nagar, Project Survey Division, Damoh (M.P.) Prior Environment Clearance for Judi Tank Project in CCA of 8500 ha. at Village-Karri and Dilona, Tehsil-Bijawar & Batiyagarh, Dist-Damoh (M.P.) Env. Consultant- Voyants Solutions Pvt. Ltd. Gurgaon.**

Location Details

S.No.	Details	JUDI TANK PROJECT
1	Latitude	24 ⁰ 08' 41'' N
2	Longitude	79 ⁰ 15' 36'' E
3	State	Madhya Pradesh
4	District	Chhatarpur / Damoh
5	Tehsil & Block	Buxwaha / Batiyagarh

6.	River	Judi, a tributary of Sonar which finally merges into River Ken
7.	Accessibility	At a distance of 65 Km from Damoh, 20 km from Buxwaha, tehsil of Distt Chhatarpur and 30 Km from Batiagarh, Tehsil of Distt Damoh

BRIEF DESCRIPTION OF THE PROJECT

- Judi Tank Project is proposed at Latitude 24⁰ 08' 41''N and Longitude 79⁰ 15' 36''E on River Judi near Khatariya village of Tehsil Buxwaha, District Chhatarpur & its right bank is in Tehsil Batiagarh District Damoh.
- The Project is envisaged to have a live storage capacity of 28.33 MCM.
- Dead storage of the project is 4.385 MCM
- Total CCA of the Project is 8500 ha, benefitting 31 villages of Damoh District of Batiagarh Tehsil.
- Total cost of the project is Rs. 298.92 crores.

SITE SELECTION CRITERIA FOR PROJECT AREA

<u>PARTICULARS</u>	<u>REMARKS</u>
<u>Existing infrastructure</u>	<ul style="list-style-type: none"> • <u>Rail Connectively – Damoh (65 Km.)</u> • <u>NH Accessibility – NH- 86 (37 Km.)</u> • <u>DR Accessibility – SH-37 Damoh to Chhatarpur (12 Km.)</u> <u>Near Amodha village</u> • <u>Airport facility – Khajuraho(112 Km.)</u>
<u>Resources Availability</u>	<ul style="list-style-type: none"> • <u>Water– From Judi River</u> • <u>Cement / Steel – Damoh(65 Km.)</u> • <u>Metal – Buxwaha (20 Km.)</u> • <u>Sand - 85 Km from Gulganj</u> • <u>Soil for Earthen Dam – From the Submergence area (2-5 Km)</u> • <u>Human Resource for Construction Work – Locally Available</u>

<p><u>Environmental consideration (within 10 km radius from proposed project site)</u></p>	<ul style="list-style-type: none"> • <u>No National Park/Wild Life Sanctuary/Biosphere Reserve.</u> • <u>Total forest affected in the project is 254.20 Ha, out of which 227.70Ha in submergence (171.80Ha in the distt.Chhatarpur & 55.90 Ha in Distt. Damoh) and 26.50Ha affected in canal (Damoh Distt.)</u> • <u>No Eco sensitive zone</u> • <u>No Critically/ severely polluted areas</u> • <u>No Interstate boundary</u>
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DETAILS OF SUBMERGENCE AREA

Forest Land	:	227.70 Ha
Private Land	:	157.81 Ha
Government Land	:	130.00 Ha
Total	:	515.51 Ha

LAND UNDER SUBMERGENCE (District wise)

S N	Details of submergence	Chhatarpur	Damoh	Total
1	Private land	157.81	-	157.81
2	Government land	130.00	-	130.00
3	Forest land	171.80	55.90	227.70
	Total	459.61	55.90	515.51

Hydrology (Approved by BODHI)

S.No	Particulars	Value
1.	Catchment area (sq.km)	141.10

2	Intercepted Catchment Area (sq km)	18.29
3	Net Catchment Area (sq km)	122.81
4	Average Annual Rainfall (mm)	1046.64
5	Designed flood (PMF) (Cumecs)	1483
6	Net 75% dependable yield available (MCM)	28.33

The case was presented by the PP in 275th SEAC meeting dated 12/05/2016, 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 >50% of the area is forest area. Since project involves forest area, FC clearance should be obtained.
3. Cost benefit analysis including environmental factors should be studied in the EIA.
4. Green belt plan and catchment area treatment plan be provided in the EIA report.
5. Inventory of existing trees and their management should be provided in the EIA report.
6. It was also suggested by the committee that PP should explore the possibility of reducing the submergence of forest area.

PP has submitted the EIA report vide letter dated 05/10/2018 which was forwarded through SEIAA vide letter no. 1612 dated 26/10/2018.

EIA was presented by the PP and their consultant. PP has submitted the following salient features of this project:

Proposed Judi Tank project dam site is located on the Judi River near Khatariya village in Buxwaha Tehsil of Chhatarpur district. Judi River is a tributary of Sonar River. At the proposed location the river forms a boundary for both the districts i.e.Chattarpur&Damoh, the Dam axis is spread in both the districts. It impounds 30.523 MCM of monsoon discharge of the river and out of it harness 28.33 MCM for providing irrigation facility at 112% irrigation

intensity during Rabi to 8500 ha (100%) and Kharif 1020 ha (12%) in command covering 30 villages under district Damoh.

The proposed dam site is located near Khatariya Village in Buxwaha Tehsil at latitude 24^o8'41"N and longitude 79^o15'36"E and geographically covered under SOI Topo Sheet No. 54P/4, 54P/8 and 54P/12. The project site falls in Block and Tehsil Buxwaha, District Chhatarpur. Geographically the command area is spatially covered under SOI toposheet 54P/8 and 54P/12 and falls in 30 villages of Tehsil Batiyagarh, District Damoh. The project site can be approached by road from Damoh via Damoh-Chhatarpur SH-37. It is about 30 km from Batiyagarh and 20 km from Tehsil headquarter Buxwaha

Project Features

The project shall encompass the following components: -

- 565 m long composite dam comprising of 499 long with maximum height of 27.50 m homogeneous earthen dam;
- 66 m wide spillway;
- One RCC barrel type irrigation sluice (1.6m X 1.5m);
- 20 km main canal (MS pipe);
- 4 branches (24km) and 7 distributaries(50km).
- Cost of project is Rs240.24 crores and B.C. Ratio is 1.70:1.

For execution of the project 559.337 ha land shall be required of which the apportionment between State, Private and forestland shall be 161.749 ha, 144.834 ha and 252.754 ha respectively. There are five project affected villages which are being impacted due to acquisition of private land. There shall be 278 affected families of which 40 shall be displaced families. The land acquisition shall be carried out as per RFCTLARRA 2013.

The P. P has on 25.11.2017 submitted on line the application for Forest clearance for diversion of 252.754 ha vide proposal No, FP/MP/IRRIG/18046/2016. The stage -1 clearance for diversion of 252.754ha Forest land for construction of project has been granted on 2.11.2018.

The geographical formations found in Chhatarpur region are represented by the Archeans and Proterozoic formation comprising Bundelkhand Granite in Northern & north central part

with a thin soil cover. The project site is located in seismic Zone III. The water requirement (200 kld) for construction shall be mainly met from the river water and the domestic/drinking water from underground sources. The total raw material requirement for coarse and fine aggregate and boulder comes to 0.20 lakh cum, 0.25 lakh cum and 2.15 lakh cum earth and 0.15 lakh cum boulder/stone chips respectively. About 200 persons shall be employed during peak construction phase. None of the plant species reportedly found in the study area falls under any of the IUCN Red list of Threatened Species Version 2014.3. Among recorded mammals none belonged to "Schedule-I" category of Indian Wildlife Protection Act (1972).

Irrigation Planning

At present, the command area under 37 villages is being cultivated in Rabi and Kharif crop seasons. The crop intensity during Kharif and Rabi being 74.46% and 73.65% respectively. The crop intensity during Rabi crop has been adopted as 100% (8500 ha) and during Kharif 12% (1020 ha). Based on Modified Pen Man method for the crop water requirement has been assessed as 28.33 MCM. Micro irrigation by sprinkler system shall be adopted in the entire command area.

The command area to be benefited from the project lies on left bank of river Judi and is covered in 30 villages under district Damoh. The predominant slope of the tract of gross command is between 0-5 degrees. The dominating land use classes are agriculture, open scrub, settlement and water body. The physico-chemical analysis of soil manifests that the soil is neutral in soil reaction and has EC values far less than threshold limit of 4 ds/m for a soil to be termed as sodic. The soils are neither saline nor sodic.

Hydrology/Water Availability

Judi River rises in the hill range in the Chhatarpur district of Madhya Pradesh at an elevation of 493 mamsl and drains a gross catchment of 141.10 sq. km up to the project site. The 50%, 75% and 90% dependable yield from Judi has been assessed as 35 MCM, 31.25 MCM and 39.24 MCM. The sediment rate of 357.02 cum/sq. km/year has been adopted. The peak value of flood hydrograph comes out as 1483 cumecs. Jabalpur comprises of the prominent aquifer of Basalt followed by Alluvium, Shale, Laterite, Limestone, Schist, BGC, Quartzite, Gneiss and Granite. As per Ground water development Batigarh and Buxwaha blocks are categorized as semi-critical. Out of 40 years there were ten failure years. It is also manifest that out of total net inflows of 1635.59 MCM for 40 years the spill quantity was 561.02 MCM, which is

almost 34.3% of the inflow i.e. The release on downstream is more than 30% of flow during monsoon season.

Public Hearing

The Public Hearing in Chhatarpur was conducted on 18th July, 2018 near school at village panchayat- Pali, tehsil Buxwaha, District Chhatarpur. The meeting was presided by Mr. D.K. Morya, Additional District Collector. The Public Hearing in Damoh was conducted on 12th July, 2018 near school at village panchayat- Kathora, tehsil Batiyagarh, District Damoh. The meeting was presided by Mr. AnandKopariya, Additional District Collector, Damoh. The main issues were about adequate compensation to be granted and employment should be given to the residents and farmers of project affected villages.

Environment Management Plans

S. No.	Plans	Total Cost (Rs. Lakh)	Capital Cost (Rs lakh)	Annual Recurring (Rs lakh)
1.	Catchment Area Treatment Plan	1050.00	774.00	92.00
2.	Command Area Development Plan	6047.00*	5375.00*	224.00*
3.	Compensatory Afforestation Scheme	2591.00	2429.00	54.00
4.	Wildlife and Bio-diversity Management plan	30.00	21.00	3.00
5.	Fisheries Management Plan	128.00	126.20	0.60
6.	Resettlement & Rehabilitation Plan	2521.00	2521.00	0.00
7.	Green Belt Development Plan	22.00	15.10	2.30
8.	Reservoir Rim Treatment Plan	21.00	21.00	0.00
9.	Muck Management Plan	2.00	0.50	0.50
10.	Landscape and Restoration Plan	4.00	2.50	0.50
11.	Restoration Plan for Quarry Sites	10.00	1.60	2.80
12.	Disaster Management Plan	15.00	15.00	0.00
13.	Water, Air and Noise Pollution Management	16.00	8.80	2.40
14.	Public Health Delivery Plan	65.00	20.00	15.00
15.	Labor Management Plan	10.00	4.00	2.00
16.	Sanitation and Solid Waste Management	25.00	13.00	4.00
17.	Local Area Development Plan	120.00	120.00	0.00
18.	Environmental Safeguards	8.00	0.50	2.50
19.	Energy Conservation Measures	11.00	1.40	3.20
20.	Environmental Monitoring Plan	26.00	2.00	8.00
Grand Total		6675.00	6096.60	192.80

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

1. Since project involves forest area, PP should submit the copy of application made for FC for diversion of forest land.
2. Inventory of the trees that to be uprooted.
3. Detailed Scheme for muck management plan.
4. Layout on Map of proposed R & R site with its details of application made for allotment of R & R site.
5. Copy of letter issued for award of R&R.
6. Catchment area treatment plan is to be submitted by the PP.

7. Case No. - 5772/2018 Eexecutive Engineer,, Panchanmnagar Survey Div.- Hatta Damoh (M.P.). Prior Environment Clearance for Sitanagar Irrigation Project, Live Capacity – 59.59 Mcm,Cultivable Command Area – 16,200 ha., Catchment Area - 3896.97sq.mtr.(Dam length 1671 M, Spillway – 204.00 M, Maximum height of Dam - 27.50 M). at Village - Summer & Bijori Sirsiya District - Damoh (M.P.). Category: 1(c) River Valley Project.

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.

The case was presented by the PP and their consultant wherein during presentation it was submitted by the PP that no forest land is involved in the project and no submergence is involved in the project. After deliberations committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA study along with following additional TORs:

1. Issues of tree to be uprooted and species wise details.
2. Issues of R&R should be discussed in the EIA report in details.
3. A detail of the source (quantum of water available, other potential users etc.) from where water is envisaged to be lifted shall be furnished.
4. Places where diversions of nallah/natural drains are proposed should be detailed out in the EIA report.
5. Sedimentation study in the pipe lines including the deposition, scaling etc should be furnished with EIA report along with the methodology proposed for its cleaning.

6. Economic viability and cost benefit analysis be conducted and presented in the EIA report and should also take into consideration environmental/ecological factors.
 7. How micro-irrigation technology shall be implemented in this project after the completion of the project should be discussed in the EIA report.
 8. The study area for the EIA shall include 2.5 Km area on either sides of the pipeline.
 9. Management plan for dug-out material generated during laying / construction of the pipe line / structures.
 10. NOC of gram sabah shall be obtained and annexed with the EIA report.
 11. 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.
 12. An inventory of flora & fauna based on actual ground survey shall be presented.
 13. PP should also explore the possibility of reducing proposed power requirement and methods proposed for dealing with back pressure in case of electricity failure should be studied in the EIA report.
 14. EIA report should cover impact of anticipated change in cropping pattern and associated activities like horticulture, animal husbandry etc.
 15. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.
 16. Ratio of gravity flow and pumping should be studied in the EIA report as 03 pumping stations are proposed in the project.
 17. Since all the pumping stations are in remote locations, mechanism of providing power supply to them should be discussed in the EIA report. If fresh HT lines are proposed to be laid down issues such as land acquisition should be detailed out in the EIA report. For lying transmission line, if there is involvement of forest land, same should be added in the FC proposal.
 18. Any proposal for alternate power supply. If yes, their details should be discussed in the EIA report.
 19. Risk factors with their management plan should be discussed in the EIA report.
8. **Case No. - 5723/2018 Sarpanch, Gram Panchayat Silgi, Tehsil - Mandla, Dist. Mandla, MP Prior Environment Clearance for Sand mine in an area of 6.0 Ha. (1,05,948 cum per annum) (Khasra no. 1) at Village- Silgi, Tehsil - Mandla, Dist. Mandla (MP)**

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 1) at Village- Silgi, Tehsil - Mandla, Dist. Mandla (MP) 6.0 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. 555 dated 02/5/2018 has reported that there is 01 more mine operating or proposed within 500 meters around the said mine with total area of 11.100 ha including this mine

Earlier this case was presented by the PP and their consultant in 323rd SEAC meeting dated 18/08/2018. During presentation it was observed by the committee that replenishment details of sand are not provided in the mine plan. Thus PP was asked to provide replenishment details duly approved by the competent authority for further consideration of the project.

The case was presented by the PP and their consultant wherein PP submitted that semi mechanized open-cast method through local labours, loader/Elevator is proposed and this is also mentioned in the mining plan. Hence, after presentation PP was asked to submit following details:

1. As per presentation, the proposed method of mining is semi-mechanized using machine such as JCBs (pockland) and hywa/trucks. However, unladen weight and laden weight of both the machine (empty/ full with sand) not given, this information is essential to assess the amount of load that will be put on river bed and also to assess the level of "Bed compaction" for which report on bed compaction should be submitted.
2. Extent of mechanization with capacity and number of machinery engaged in the sand mining.
3. The replenishment plan submitted by PP is not approved by the competent authority and only an "Approval" seal is placed on the plan without any signature. Thus PP was asked to submit copy of approval letter issued by the competent authority.

9. Case No. - 5724/2018 Sarpanch, Gram Panchayat Bhapsa, Tehsil - Mandla, Dist. Mandla, MP Prior Environment Clearance for Sand mine in an area of 5.10 Ha. (1,03,275 cum per annum) (Khasra no. 412) at Village- Bhapsa, Tehsil - Mandla, Dist. Mandla (MP)

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 412) at Village- Bhapsa, Tehsil - Mandla, Dist. Mandla (MP) 5.10 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. 553 dated 02/5/2018 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

Earlier this case was presented by the PP and their consultant in 323rd SEAC meeting dated 18/08/2018. During presentation it was observed by the committee that replenishment details of sand are not provided in the mine plan. Thus PP was asked to provide replenishment details duly approved by the competent authority for further consideration of the project.

In this meeting PP and their consultant presented the case. During presentation PP stated that semi mechanized open-cast method through local labours, loader/Elevator is proposed and this is also mentioned in the mining plan. Hence, after presentation PP was asked to submit following details:

1. As per presentation, the proposed method of mining is semi-mechanized using machine such as JCBs (pockland) and hywa/trucks. However, unladen weight and laden weight of both the machine (empty/ full with sand) not given, this information is essential to assess the amount of load that will be put on river bed and also to assess the level of "Bed compaction" for which report on bed compaction should be submitted.
4. Extent of mechanization with capacity and number of machinery engaged in the sand mining.
5. The replenishment plan submitted by PP is not approved by the competent authority and only an "Approval" seal is placed on the plan without any signature. Thus PP was asked to submit copy of approval letter issued by the competent authority.
6. As per Google image of December, 2017 based on the co-ordinated provided by the PP, approx. 40% of the lease area is submerged in water and in stream mining is not permitted. Thus PP was asked to submit revised production plan leaving the submerged area as non mining area as per Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.

10. Case No. - 5725/2018 Sarpanch, Gram Panchayat Tikarwara, Tehsil - Mandla, Dist. Mandla, MP – 481771 Prior Environment Clearance for Sand mine in an area of 6.00 Ha. (1,15,668 cum per annum) (Khasra no. 298/1) at Village- Tikarwara, Tehsil - Mandla, Dist. Mandla (MP)

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 298/1) at Village- Tikarwara, Tehsil - Mandla, Dist.

Mandla (MP) 6.00_ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, 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. 554 dated 02/5/2018 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

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. 553 dated 02/5/2018 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

Earlier this case was presented by the PP and their consultant in 323rd SEAC meeting dated 18/08/2018. During presentation it was observed by the committee that replenishment details of sand are not provided in the mine plan. Thus PP was asked to provide replenishment details duly approved by the competent authority for further consideration of the project.

This case was scheduled for the presentation and discussion wherein Project Proponent (PP) remains absent to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings for appraisal.

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

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

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

Earlier this case was presented by the PP and their consultant in 330th SEAC meeting dated 24/10/2018, wherein neither Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings.

This case was scheduled for the presentation wherein: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Earlier PP was also absent in 330th SEAC meeting dated 24/10/2018. Committee decided to call the PP in subsequent meetings giving last chance to present their case and even if the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

12. Case No. - 5778/2018 Sarpanch/Sachiv, Gram panchayat Ganiyar, Tehsil Narwar, District Shivpuri (M.P.)-473551. Prior Environment Clearance for Sand Mine in an area of 6.430 ha. for Production Capacity of 1,09,953 cum/year, Khasra No. - 60, 1038, at Village - Ganiyar, Tehsil - Narwar, District Shivpuri (M.P.). Cat. 1 (a) Mining Projects.

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.- 60, 1038, at Village - Ganiyar, Tehsil - Narwar, District Shivpuri (M.P.). Lease Area - 6.430 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format in the form of combined NOC by OIC. Concerned Mining Officer vide letter no. 286 dated: 01/4/15 has reported there is no more mine operating or proposed within 1000 meters around the said mine

The case was presented by the PP and their consultant wherein : 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 1,09,953 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 50 meters annually in the last week of September and maintain the records in RL (Reduce

Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.

- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- 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. 5.15 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 lacks/year is proposed for various activities. A separate bank with cost sheet 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.

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

13. **Case No. - 5496/2017 Shri Shardul Shah, Director India Waste Management Pvt. Ltd, 30, MLA Quarters, Bhadbhada Road, T.T. Nagar, Bhopal, (M.P) – 462003 Prior Environment Clearance for Common Bio Medical Waste Treatment Facility at Plot No. E3, Industrial Area No. –II, Mandideep, Tehsil - Goharganj, Distt.- Raisen, (M.P.) Cat. 7 (da) Common Hazardous Waste Treatment Storage and disposal facilities (TSDFs) (EIA Consultant: M/s Gaurang Environmental Solutions Pvt. Ltd., Jaipur)**

The proposed project is for setting up of common bio-medical waste treatment facility and project falls under Category “B” Projects of activity 7 (da) as per EIA Notification dated 14th September, 2006 and its subsequent amendments dated 17th April 2015, under

Bio- Medical Waste Treatment Facilities. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

The case was recommended for grant of prior EC in the 306th SEAC meeting dated 27/01/2018 and SEIAA in its 500th meeting dated 30/08/18 decided to grant prior EC. EC was issued vide letter no. 1530/SEIAA/18 dated 12/10/18.

Moh. Tahir Khan, Bhopal (M.P.) vide letter dated 01/10/2018 has raised certain issues regarding M/s India Waste Management Pvt., Ltd., Mandideep and the same has been forwarded by SEIAA to SEAC vide letter dated 24/11/2018 for site inspection/ examination and give factual status.

The case was placed before the committee with the concerned case file. The committee on perusal of the complaint observed that the complainant is mainly concerned about the location of the project as site is located in close proximity with a habitat and criteria of coverage of an incinerator.

Committee observed that at the time of prescribing “TOR” to this facility the issue of habitat was raised and considering the same PP was asked to provide necessary details and containment plan in the EIA report which reads as follows:

- ✓ *Considering habitation near to the project site (on the SE side), PP will carry out air modeling selecting suitable software and discuss in EIA report where maximum GLC would occur. PP will also submit the exact distance of nearest habitat (on the SE side) from the all four corners of the project location and justify that this CBWTF will not cause any adverse impact on environment and habitation in the vicinity.*
- ✓ *One monitoring location should be fixed in the nearby habitation (on the SE side) for monitoring of air, noise water, soil etc.*
- ✓ *Considering habitation near to the project site (on the SE side), PP should provide the details of habitations with sensitive features such as no. of houses, no. of residents and details of other structures such as schools, hospitals, source of water supply etc.*
- ✓ *Justify in EIA report considering habitation near to the project site (on the SE side) that the proposed technology is “Best Available Technology” of CBWTF and also how unit will remain zero discharge.*

Committee further observed that at the time of EIA appraisal the issue of habitat was discussed wherein PP and their consultant submitted that in EIA report this point is addressed as per the given TOR point in Chaptor-4. Committee also observed that PP has submitted a

detailed report on “Air dispersion modeling report for this CBWTF” vide letter dated 17/01/2018. As per this modeling report the maximum GLC will be at a distance of 1400 meters from the project site in SE direction which will be away from the habitat.

As per the suggestions of the SEAC in the meeting dated 07/12/2017, PP has also proposed dry scrubber technology to avoid any adverse impact on nearby habitat. PP has proposed bag filters at the final outlet of incinerator stack with 30 meters height as best available technology.

Committee further discussed that as per the revised guidelines issued by CPCB for “Common Bio-medical Waste Treatment & Disposal facility” (December, 2016) it is clearly mentioned in the location criteria that “A CBWTF shall preferably be developed in a notified industrial area without any requirement of buffer zone”, and this proposed site is located in notified industrial area.

Further in the recommendations it is mentioned that ETP of 300 KLD (in two phases of 200 KLD and 100 KLD) with provision of tertiary system shall be provided with recycling of treated water to maintain zero discharge conditions. It is also stipulated in the conditions that no effluent from the facility shall be discharged outside the premises and Zero discharge shall be maintained. PP should install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom & on line continuous monitoring system to monitor the stack emission and data connectivity must be provided to the MPPCB’s server for remote operations to keep vigil on industry as best available technology.

Committee observed that criteria of coverage of faculty were dealt in detail by SEIAA in their 500th meeting dated 30/08/2018. Committee after deliberations recommends that with the above submissions the file may be sent to SEIAA.

14. **Case No. - 5791/2018 M/s Fortune Soumya Housing, Fortune Soumya Santosa, Bagli Behind C-21 Mall, Bhopal, (M.P.). Prior Environment Clearance for Construction of Proposed Residential Development Fortune Soumya Santosa on part of Khasra No. 35, 40, 48, 49, P.H. No. 25, (Total Land Area = 62,873.23 sqm., Proposed Scheme Area = 61,607.01 sqm, Net Planning Area = 60914.87 sqm, Total Built-up Area = 42856.47 sqm) at Village - Bagli, Tehsil - Huzur & Dist. - Bhopal (M.P.). Category: 8(a) Building & Construction Project. Env. Con. – ENV DAS India Pvt. Ltd., Lucknow (U.P.).**

This is case of Prior Environment Clearance for Construction of Proposed Residential Development Fortune Soumya Santosa on part of Khasra No. 35, 40, 48, 49, P.H. No. 25, (Total Land Area = 62,873.23 sqm., Proposed Scheme Area = 61607.01 sqm, Net Planning

Area = 60914.87 sqm, Total Built-up Area = 42,856.47 sqm) at Village - Bagli, Tehsil - Huzur & Dist. - Bhopal (M.P.). Category: 8(a) Building & Construction Project. The project requires prior EC before commencement of any activity at site.

This case was scheduled in this meeting wherein PP and their consultant presented the salient features of the project:

The proposed residential project “**Fortune Soumya Santosa**” is located at village Bagli, Tehsil Huzur, District Bhopal, Madhya Pradesh and spreads over **60,914.87 m²**, and the land use is residential as per Master Plan 2005 of Bhopal.

Environment Clearance was issued vide letter no. 8179/SEIAA/2015 dated 26/11/2015. Due to change in layout plan we are applying for revised EC.

The proposed site has already been in possession of the project proponent. Site is open land and does not involve activities of any type. It is anticipated that the construction activities of the proposed project would not have an adverse effect on the land use. The development of the green belt and other landscape would enhance the visual aesthetics of the area.

Site and Surroundings within 10 km from proposed project are as follows:

North: Van Vihar National Park is 13 km (NW) from the site. MANIT is 9 km. Habibganj Railway Station is 7.5 km, Bhopal Junction Railway station is 13.5 km. Shahpura Lake is 7.5 km, Bhabha Engineering Research Institute is 1.5 km. Raja Bhoj International Airport: 20 km

West: Kerwa dam is 12 km and Kaliyasotr river is 5 km from site, Misrod Railway Station is 3 km. Barkatullah University is 5 km, Kolar road is approx 7.5 km far from the project site

South: International Public School is located at a distance of 2.5 km. Mostly occupied by residential colonies.

East: NH-12 and Bhojpur road are 2 km from the site. It is mostly occupied by semi urban stretch. Rapadiya, Bagarauda, Semari Khurd and many other villages are located east of the proposed site.

Particulars	Details
Location	Construction of Proposed Residential Development Fortune Soumya Santosa on Part of Khasra No. 35,40, 48, 49, P.H. NO: 25, Village Bagli, Tehsil Huzur, District Bhopal, Madhya Pradesh, India.

Type of Project	Building and large construction project
Category	B, Type- 8(a)
Elevation (m)	458 m above mean sea level
Latitude and Longitude (mentioned in Fig 1)	SE Corner - 23° 9'55.32"N; 77°29'22.31"E SW Corner - 23° 9'57.18"N; 77°29'11.89"E NE Corner - 23°10'6.82"N; 77°29'22.54"E NW Corner - 23°10'4.64"N; 77°29'17.22"E
Current status of land	Residential Landuse as per BDA Master Plan, 2005
Type of facilities	Housing with basic amenities Convenient shops EWS & LIG Club Swimming pool
Nearest Highway	Bhojpur road (NH-12) (E)
Nearest railway station	Misrod Railway is 3 km (W) Habibganj Railway Station is 7.5 km (NW)
Nearest airport	Raja Bhoj International Airport, Bhopal – 20 km (NW)
Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	Van Vihar National Park is 13 km (NW)
Rivers/Lakes	Kaliasot River – 5 Km (W), Shahpura lake – 7.5 km (NW)
Seismic zone	Seismic Zone-II as per BIS 2002 map.
Defense installations	---

Ground Coverage	<p>Total Permissible Ground Coverage :17009 m² Proposed Ground Coverage for plotted development(50% of 30804.57 m²) = 15402.285 m² (A) Proposed Ground Coverage for Commercial area (60% of 1905.03 m²) = 1143.018 m² (B) Proposed Ground Coverage for Informal sector (EWS&LIG) (30% of 1544.75 m²) = 463.425 m² (C) Total (A+B+C) = 17008.72 m² Total proposed ground coverage = 17008.72 m²</p>
FAR	<p>Permissible: 60914.87sqm x 1.25 = 76143.58 sqm (Proposed FAR for Housing = 1.25 x 30804.57 = 38505.71 sqm (A) FAR For Commercial Shops= 1x1202.11=1202.11(B) FAR For Club = 1.25 x 702.95 = 878.65(C) Total (A + B + C) = 40586.47sqm Proposed FAR: 40586.47 sqm</p>
Total (Non- FAR area)	2270 m2
Total Built up area	<p>FAR+ Non-FAR 40586.47 m2 +2270 m2 = 42856.47 m2</p>
Total open area	43906.15m2
Green Area	<p>7569.46 m2+ 7701.14 m2 (25% of plotted area) = 15270.6025 (Including Common and Individual Green area)</p>
No. of Trees (Required-80 trees /m ² of open area)	<p>Required: 549 Trees Proposed: 550 Trees</p>
Total Dwelling Units Total no. of EWS/LIG	<p>Residential: 321 no. EWS-30 no. LIG-20 no. Total: 371 no.</p>
Total no. of shops	8
Estimated Population	<p>Residential – 321 (@5 persons per unit) =1605 EWS- 50 (@5 persons per unit) =250 Total Population =1855 persons Visitors – 160 Staff(including shop) -100</p>
Parking facilities	<p>Individual Parking will be provided for row houses. Stilt/Surface parking (including two wheeler parking) will be provided for EWS/LIG.</p>
Power requirement & source	<p>1200 kVA Source : Madhya Pradesh KshetraVidyutVitran Company Limited</p>

Power Backup	1 DG sets of 125 kVA for common facilities
Water Requirement and Source	Fresh Water Demand : 130 KLD Recycled Water: 119 KLD Total Water Demand : 249KLD Source: Ground Water till the municipal supply is available
Connectivity	Bhopal city as well as the proposed project site has a perfect central connectivity to India's all metro cities and other important markets. The proposed site is located 2 km West of Bhojpur Road. The nearest railway station is Misrod Railway and Habibganj Railway Station which are at an aerial distance of 3 km (W) and 7.5 km (NW) from the project site respectively. The nearest airport is the Raja Bhoj International Airport, which is about 20 km (NW) from the proposed site. Apart from this, State Road Transport bus services provide regular and frequent connectivity to the people to and from Bhopal. The project complex will have traffic entry/exit from 12 m wide road.

Comparative area statement

Items	As per EC issued vide letter no. 8179/SEIAA/2015 dated 26/11/2015		New Proposal	
Total Plot area	62,873.23 sqm		62,873.23 sqm	
Net Planning area	60,914.87 sqm		60,914.87 sqm	
Plottable Area	36626.23 sqmt	60.1 %	30804.57 sqmt	50.57%
Roads	14738.7 sqmt	24.2 %	19091.06 sqmt	31.34%
Open and Services	7177.17 sqmt	11.8 %	7569.46 sqmt	12.43%
Convenient Shops	182.91 sqmt	0.3 %	1202.11 sqmt	1.97%
Sports and Common	1093.4 sqmt	1.8 %	702.92 sqmt	1.15%
Activities	1096.46 sqmt	1.8 %	1544.75 sqmt	2.54%
EWS				
Total FAR Proposed	47741 sqm		40586.47 sqm	
Ground Coverage Proposed	18,776 m ²		17008.72 m ²	
Parking	Individual parking will be provided		Individual parking will be provided	
Built-up Area	47741 m ²		42856.47 m ²	
Proposed Landscape Area	13898.8 sqm (22.8%)		15270.60 sqm (25%)	
No. of Trees proposed	315Trees		550 Trees	

Total Water Requirement	216KLD	249 KLD
Fresh Water Demand	100KLD	130 KLD
Recycled Water	116KLD	119 KLD
STP Capacity	160KLD	200 KLD
Solid Waste Generation	511 kg/Day	981kg/day
Total Dwelling Units	Residential-140 EWS-55	Residential-321 EWS-50
Total Population	Residential –140 (@5 person per unit)=700 EWS-55(@5 person per unit) =275 Total Population=975 persons Visitors – 100 Staff(including shops) -50	Residential – 321 (@5 persons per unit) =1605 EWS-50(@5 persons per unit) =250 Total Population =1855 persons Visitors – 160 Staff(including shops) -100

The case was earlier discussed in the 335th SEAC meeting dated 01/12/2018 wherein it is recorded that “The EMP and other submissions made by PP were found satisfactory and acceptable to the committee for grant of EC but the recommendations were kept in abeyance considering the recent notification issued by MoEF&CC, New Delhi vide SO 5736 (E) dated 15/11/2018”.

The case was again placed before the committee wherein it was brought in to the notice of committee that Hon’ble High Court of Delhi on dated 26/11/2018 has stayed the notifications dated 14/11/2018 & 15/11/2018” issued by MoEF&CC, New Delhi in WP (C) 12517/2018 & CM APPL.48579/2018 & WP (C) 12570/2018 & CM Appl.48897/2018. The committee on perusal of the order of Hon’ble High Court of Delhi recommends that since the notifications dated 14/11/2018 & 15/11/2018 are stayed by the court, this case now can be appraised and recommendations can be made. The committee observed that the PP has presented the case in the 335th SEAC meeting dated 01/12/2018 wherein the submissions and presentation made by the PP were found to be satisfactory and acceptable hence now in the light of Hon’ble High Court of Delhi decision dated 26/11/2018 the case is recommended for grant of prior EC subject to the following special conditions:

(A) PRE-CONSTRUCTION PHASE

1. Curtaining of site should also be carried out to protect nearby habitat.
2. Minimum fourteen rain water harvesting points should be provided.
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 (if required) 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.

(B) CONSTRUCTION PHASE

6. During construction phase, the entire area should be covered with 10 feet MS sheets and due care should be taken for noise and vibration control during construction work.
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 550 no's of trees will be planted around periphery, nallah side, roads and open area. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
13. 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.
14. PP has proposed 12 number rain water harvesting pits, however number of harvesting pit with each block and their design should be based on recharge rate study.
15. LED should be preferred over of tube lights/CFL.
16. Provision for physically challenged persons is made so that they easily excess pathway/derive way for their vehicles.
17. PP should explore the possibility of providing solar street light during construction stage.
18. Waste oil generated from the DG sets (if any) 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

19. Fresh water requirement for the project shall not exceed 113 KLD.
20. As proposed, the waste water will be shall be treated in STP (capacity 200 KLD
21.) giving tertiary system and will be reused for flushing system, dust suppression, watering at green belt area and only excess treated water shall be discharged in municipal drains for which necessary sewage discharge approval is obtained by them form the municipal corporation.
22. STP Sludge shall be disposed off with municipal solid waste.
23. Storage of solid waste shall be done for maximum 48 hours at site.
24. Recyclable waste will be sold to authorized agencies.
25. Storm water drainage system should be provided.
26. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
27. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
28. PP shall explore the possibility for provision of bio- toilet for the common area like club house etc.
29. As submitted, pp shall adopt energy conservation measures and shall provide solar water heating system and external solar street light to conserve the energy.
30. PP shall provide DG set with enclosure and of adequate capacity for emergency services within the site. 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.

(D) ENTIRE LIFE OF THE PROJECT

31. PP has proposed Rs. 08.00 lacks for green belt development as capital cost and Rs. 06.00 lacks/year for recurring expenses in the proposed EMP of this project.
32. PP has proposed Rs 104.0 lacks for execution of environment management plan (inclusive of green belt development) as capital cost and Rs. 27.0 lacks/year as recurring expenses (inclusive of green belt development) in the proposed EMP of this project which shall be complied therewith
33. As proposed, the green belt development / plantation activities at area of 7569.46 sq mt (12.43%) with 500 nos of plants 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.
34. 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.

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. The environment clearance is super seed to the previous environment clearance issued vide letter no. 8383/SEIAA/2015 dated 30.11.2015. 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.

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

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

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

PP and their consultant presented the case in 330 SEAC meeting dated 24/10/2018 and during appraisal of the project it was observed by the committee that few coordinates are falling on the hill in the north-eastern side crossing river bed and few trees are also seen on Google image of October 2018. Thus after presentation, PP was asked to provide following informations:

1. District Survey Report which is not enclosed with application as per MoEF O.M. S.O. 3611 Dtd. 25th July 02018. However, PP has submitted Geological Survey Report wherein no relevant details of sand mining are provided.
2. Replenishment plan is not approved by the competent authority.

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

PP vide letter dated 06/11/2018 has submitted the reply which was placed before the committee for discussion. On perusal of the reply submitted by PP committee observed that PP has submitted the replenishment report but the same has not been approved by the competent authority and even the RQP has not signed the report. Further the co-ordinated provided by PP are not authenticated by the competent authority and issued by the "Mining Surveyor" and are falling in Son Gariyal Wildlife Sanctuary. When the co-ordinates provided by PP matched with the co-ordinates mentioned in the DFO certificate it is observed that both the co-ordinated are also not matching. Hence committee decides to call PP in the subsequent meeting with the above informations for further consideration of the case.

16. Case No. - 4002/15 Shri Vaibhav Singh Yadav, M/s Shri Murli Construction R/o 27, Jyoti Nagar, Thatipur, District-Gwalior (MP)-474003 Sand Quarry in an area of 15.800 ha. (1,58,000 cum/year) at Khasra No.-825, Vill.-Khamroli, Tehsil-Sewada, District-Datia (MP)

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.-825, Vill.-Khamroli, Tehsil-Sewada, District-Datia (MP) 15.800 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vides letter no.405-3, dated: 04/08/2015 has reported that there is 01 more mine operating or proposed within 1000 meters around the said mine with total area of 38.40 ha including this mine.

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No.-825, Vill.-Khamroli, Tehsil-Sewada, District-Datia (MP) 15.800 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed

format duly verified by the Tehsildar and DFO. Concerned Mining Officer vides letter no.405-3, dated: 04/08/2015 has reported that there is 01 more mine operating or proposed within 1000 meters around the said mine with total area of 38.40 ha including this mine.

The case was presented by the PP and their consultant in 257th meeting dated-04/01/2016 and during presentation it was observed that concerned Mining Officer vides letter no.405-3, dated: 04/08/2015 has reported existence of 01 more mine operating or proposed within 1000 meters around the said mine with total area of 38.40 ha including this mine. It being a case of cluster where the total area is > 25 ha it was decided to consider this case as B-1 and committee recommended to issue standard TOR prescribed by MoEF&CC with following additional TORs:-

1. Detailed evacuation plan is to be discussed in the EIA report.
2. EIA/EMP is required to be prepared for entire cluster in order to cover all the possible externalities. The report should cover carrying capacity, transportation and other related issues for the cluster.
3. Photographs and maps depicting all the mines present in the cluster.
4. On a Google map, show all the mines in a cluster with all four co-ordinates of individual mines.
5. The date and duration of carrying out the base line data collection and monitoring be informed to the concerned Regional Officer of the M. P. Pollution Control Board.
6. Photographs of individual mine during EIA process with date.
7. Justify the production from each mine and also justify the duration when mining is possible.
8. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
9. Show on a map, where temporary storage facility of sand will be created along with environmental protection measures proposed for such storage facility.
10. Discuss and assess impacts of sand mining on pisciculture.
11. Discuss and assess impacts of sand mining on agricultural practices (such as growing of water melons etc) if taking place in the cluster area.
12. Discuss the measures that will be adopted for the bank erosion.
13. Indicate in EIA the structures such as bridges/barrages/dams close to individual leases in cluster and effects of mining on their structure stability with protection plan.
14. Provide the historical data of last 05 years about the sand already evacuated and the replenishment capacity of individual mine lease.

15. If a habitation is in close vicinity of ML area then possible impacts & mitigation measures be addressed in EIA.

As per the above, the TOR was issued to the PP vide letter no. 496 dated 02/03/2016.

MP State Mining Corporation Limited, Bhopal vide their letter no. 400 dated 09/08/2016 has also informed that it is a case of non-cluster as per GOI, MoEF&CC notification dated 01/07/2016 as this lease was sanctioned prior to the 09/09/2013. Concerned Mining Officer vide letter no. 913 dated 29/07/2016 has issued a certificate stating that above lease was sanctioned vide order no. F4-1/2010/12/01 dated 22/09/2010 and thus does not falls under the perview of cluster approach as per GOI, MoEF&CC notification dated 01/07/2016.

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

The case was presented by the PP and their consultant in the 52nd SEAC meeting dated 12/10/2016 and during presentation it was observed that as per the Google image of Dec 2015 based on the co-ordinates provided by the PP that approx. 40% of the lease area is submerged in water. Thus remaining 60% area is minable and 94,800 cum/year sand can be evacuated. It was also observed that a bridge like structure was observed which appear to be incomplete. PP submitted that it is a crossway which is kachha in nature. PP & OIC, State Mining Co-operation were present during discussion were asked to submit photographs and certificate of Tehsildar/competent authority for confirmation of their submission for further consideration of this project.

PP vide letter dated 14/10/2016 have submitted photographs and certificate issued by the Nayab Tehsildar issued vide letter no. 78/2016 dated 13/10/2016 which were placed in 54th SEAC-II meeting dated 14/10/2016 stating that there is no bridge in the lease. Since there is no bridge in existence in the QL area as per the certificate of Tehsildar the issue regarding existence of bridge in the QL area is resolved. The other submissions made by PP were found satisfactory and acceptable and thus the committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'B':

1. Production of Sand as per mine plan with quantity not exceeding 94,800 cum/year.

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

SEIAA vide letter no. 1050 dated 03/07/2018 has forwarded this case to SEAC stating that: "PP has submitted a representation to change the production capacity as per mining plan however, EC granted for a production capacity of 94,800 cum/year whereas in the mining plan the capacity demanded was 1,58,000 cum/year.

The case was placed before the committee wherein committee observed that the justification for reduction in production capacity is given in the minutes stating that "*during presentation it was observed that as per the Google image of Dec 2015 based on the co-ordinates provided by the PP that approx. 40% of the lease area is submerged in water. Thus remaining 60% area is minable and 94,800 cum/year sand can be evacuated*", thus committee decided that reason for the reduction in sand quantity was justified hence no further action is required in this case. The committee after deliberations decided that above clarification may be sent to SEIAA for onward necessary action.

17.5023/16 Superintending Engineer, O/o Engineer-in-Chief, Water Resources Department, Jal Sansadhan Bhawan, Tulsi Nagar, Bhopal (M.P.). Prior Environment Clearance for Kharmer Irrigation Project in CCA of 9959 ha., at Village-Janki-Dungariya, Tehsil-Dindori, Distt.-Dindori (M.P.)

The proposed site is located about 35 K.m. from Dindori Latitude 22* 42' 46" N Longitude 81*07'37" E The total percentage of irrigation of Dindori District is very low that is 2.38 %.

Catchment Area of the proposed dam is 145 Sq.Km. that is 75% dependable monsoon yield is 46.79 MCM. The project has been proposed for irrigation & drinking water for Samnapur Janpad Panchayat and Villages under command. 44 Villages comes under the area of command Samnapur & Amarpur Blocks. CCA of this project is completed as 9959 Hectare.

To accommodate 54.632 MCM of water the area under submergence is 962.02 Hectare which affects 03 villages partially. 1.0 MCM water is kept for drinking purpose & 2.5 MCM water kept for environment releases.

Introduction of the Project/Background Information

In case of mining project, a copy of mining lease/ letter of intent should be given. The project is proposed for irrigation purpose only based on Earthen Dam along with gated central spillway. The profession of the people of this area is based on agriculture, the area comes under draught prone area . The percentage of irrigation of this district is very low that is 3.28 % . To improve the percentage of irrigation, Kharmer Irrigation project is proposed for development of the irrigation percentage of this area.

Employment Generation (Direct and Indirect) due to the project

Direct - 5 Lakh Man days

Indirect - 25 lakh man Days

Catchment Area of the proposed dam is 145 Sq.Km. that is 75% dependable monsoon yield is 46.79 MCM. The project has been proposed for irrigation & drinking water for Samnapur Janpad Panchayat and Villages under command. 44 Villages comes under the area of command Samnapur & Amarpur Blocks. CCA of this project is completed as 9959 Hectare. To accommodate 54.632 MCM of water the area under submergence is 962.02 Hectare which affects 03 villages partially. 1.0 MCM water is kept for drinking purpose & 2.5 MCM water kept for environment releases.

The case was earlier discussed in the 273rd SEAC meeting dated 01/04/2016 wherein it was decided that the PP may carry out EIA studies as per the standard TOR issued by MoEF&CC. Any additional TOR may be issued / information sought, as necessary after detailed presentation of the project by the PP during next meeting of the committee.

The case was presented by the PP for TOR in 274th SEAC meeting dated 12/04/2016 with site specific details. The committee after deliberations decided that following additional TORs be prescribed to the PP 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. Details of compensations proposed for the persons residing in the downstream of dam who are to be deprived of water from project.
3. Cost benefit analysis including environmental factors should be included in the EIA study.
4. L-section details of dam should be provided in the EIA report.
5. Existing and proposed agricultural practices should be discussed in the EIA report.
6. Data already collected can be used in the EIA report.
7. Green belt plan and catchment area treatment plan be provided in the EIA report.
8. Inventory of existing trees and their management should be provided in the EIA report.

PP has submitted the EIA/EMP report vide letter dated 06/09/2018 which was forwarded through SEIAA vide letter no.-1544 dated 15/10/2018.

The EIA was presented by the PP and their consultant wherein during presentation PP and their consultants informed that As per clause 1(c) ii of EIA notification dated 14.8.2018, all irrigation projects with CCA above 2000 ha and below 10000 ha shall be treated as 'B2' and shall be appraised on the basis of EMP alone.

Therefore, the project (CCA 9980 HA) falls in category B-2. As per para 7(III) Stage3 (i) (f) - Public consultation, EIA notification dated 14.9.2006, all category ' B2' projects and activities are exempt from public hearing.

They further describe about the project that:

- The proposed dam site is located near Dungariya, Jhanki village across Kharmer River, a tributary of the Narmada. The project site falls in Samnapur Block and Tehsil Dindori.
- The total percentage of irrigation of Dindori district is very low (2.38%).
- To fulfill the demand of local people and to improve the percentage of irrigation, the project is proposed in this area. To harness the surplus water available in the Kharmer river during monsoon, an assured source of surface irrigation during Rabi is vehemently needed in the area.
- Project has been conceived with a view to impound 46,79 MCM of monsoon discharge of the river and harness it for providing for irrigation, for drinking purpose and E-flow has been apportioned as 41.34 MCM, 1.80 MCM and 3.65 MCM after excluding the evaporation losses in the reservoir (9.717 MCM).
- Composite dam comprising of 1076.50m long homogeneous earthen dam, maximum height of 21.38m from deepest river bed level ;
- 88.50m long spillway with 7 radial gates (10.5m x 5.00m).
- 45m and 45m long Non-over-flow sections on right and left of spillway

- One RCC barrel type irrigation sluice (1.5m x 2.0 m).
- 32km long right bank underground piped canal and 49.90km long left bank underground canal (diameter varying between 1.04m to 1.57m)
- The distribution system shall have underground piped distributaries and minors for pressurized micro irrigation system
- The land requirement for project shall be 900.34 Ha, of which revenue and private land shall be 120.293 ha and 780.047 ha respectively
- No diversion of forest land is required for the project
- Due to project 8 villages shall be affected of which 1 village Umariya Ryt shall be fully affected and 7 villages shall be partially affected.

In the SEAC 332nd meeting dated 26.10.2018, after presentation and discussion committee has asked PP to submit response on following:

1. Written Commitment required from the PP regarding following aspects:
 - That no Forest land diversion.
 - No R& R under section 19, is pending
 - No activity on site, no broken area.
 - No third party intrusion
 - No family or person left out in survey for compensation under RFCTLARR Notification 13.01.2017).
2. Justification why change in CCA from 9959 ha in Form -1 to 9980 ha during EIA presentation.
3. Chronology of land acquisition under section 11, 19, 21 (RFCTLARR Notification 13.01.2017).
4. Details about muck management plan.
5. Copy of money receipt for the compensation in collect orates.
6. Primary and secondary wind rose diagram
7. Details R&R site and layout and name and record and project cost.
8. Commitment from PP that there is no family or person left out in survey for compensation under section.
9. Provision of first-aid for injury on site.

PP vide letter no. 2738 dated 05.11.2018, submitted reply of the queries raised in the 332 SEAC meeting which was placed before the committee. Committee observed that as per reply submitted by PP:

- Total submergence area of Kharmer Irrigation project is 900.34 ha, and no forest area coming under submergence, nor in the dam construction.
- There are eight villages namely 1. Dungariya Raiyat 2. Salheghori Raiyat 3. Salheghori mal 4. Andai Raiyat 5. Khamhi mal 6. Keolari-Bamhni 7. Mohgaon Raiyat and 8. Umariya Raiyat for which Section 19 the formalities and action has been completed.
- No construction and no broken area, the site is totally virgin.
- No temporary camp at site has been built.
- No third party intrusion at project site.
- There is no family or person left out in survey for compensation under the submergence area of Kharmer irrigation project nor in dam area.
- In the CCA area 21 ha. land has been increased now the CCA area is 9980 ha.
- Copy of money receipt for the compensation in collectorate (Land Acquisition Officer) Dindori, letter is enclosed no. 1737/SAC/Dated 27.07.2018.
- The R&R plan has been submitted. The Government Kharmer Irrigation Project, Tehsil Samnapur Distt. Dindori at village" Jhanki ka Begantola" on Samnapur Bichhiya state highway has been selected for R&R of displaced families. PP stated that in the R&R village" Jhanki ka Begantola where all the basic amenities has been provided.
- There is no family or person is left out neither in survey for compensation under the project submergence area nor in the dam construction.
- Provision of first-aid for injury on site will be provided by PP from construction stage to completion stage.

The query reply was placed before the committee and committee found satisfactory and acceptable to the committee. Hence the case was recommended for grant of prior EC Kharmer Irrigation Project in CCA of 9980 ha., at Village-Janki-Dungariya, Tehsil-Dindori, Distt.-Dindori (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. For dust suppression, regular sprinkling of water should be undertaken.
3. PP will obtain other necessary clearances/NOC from respective authorities.
4. 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.

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. 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.
9. 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.
10. DG sets shall be provided with acoustic enclosures to maintain the noise level within the prescribed limits.
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. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
13. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
14. 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.
15. 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

16. Plantation shall be carried out by the PP as per submitted plan in the command area or on available degraded land.
17. Efficient irrigation systems should be promoted in the command area as Social Responsibility by the trained staff of the department.
18. Periodic soil/water testing shall be carried out in the command area and report to be submitted to Ministry of Agriculture with essential remarks.
19. Use of Solar Energy should be promoted in the project area where ever possible.
20. 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, Solid Waste Management Rules, 2016 etc.
21. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
22. 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

23. For Environmental monitoring total budgetary provision of Rs. 30 lacs out of which Rs. 22.50 Lacs for during construction and Rs. 7.50 Lacs for during operation.
24. PP proposed in the EMP Rs. 17.00 Lacs for occupational health, Rs. 4.00 Lacs for environmental safeguards during construction stage.
25. Rs. 54.00 lacs for sanitation and solid waste management plan.
26. Rs. 21.00 lacs for energy conservation measures .
27. A budgetary provision of Rs. 66.87 crores is made for R&R plan. 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.
28. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
29. All commitments pertaining to public hearing shall be mandatory on part of PP.
30. 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.
31. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
 32. 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.
 33. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
 34. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
18. **Case No.5137/16 Shri Atul Gondal, Authorized Signatory, M/s Vedansh Minerals Resources, Sub Lessee of MPSMCL, L.L.P. 10/499, B, Aliganj, Khalasilean, Kanpur (UP)-208002 Prior Environment Clearance for River Sand Mining in an area of 10.00 ha. (40,000 cum/year) at Khasra No. 1566 at Village-Bijakpur, Tehsil-Dabra, District-Gwalior (MP)**

This is case of River Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. 1566 at Village-Bijakpur, Tehsil-Dabra, District-Gwalior (MP) 10.00 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vides letter no. 435 dated: 04/11/2015 has reported that there is no more mines operating or proposed within 1000 meters around the said mine.

The case was presented by the PP and their consultant wherein it was observed from the Google image based on the co-ordinate provided by the PP that QL is sanctioned just adjacent to the river bank and sufficient safety area is not left from the bank and the allotted sand lease. Thus committee after deliberations decided that at least 20 meters area be left from northern side of the bank as non-mining area to avoid bank erosion. Other submissions made by PP were found satisfactory and acceptable and thus the committee decided to recommend the case

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

- Production of Sand as per mine plan with quantity not exceeding 4,40,000 cum/year.
- District Authority should record the deposition of sand in the lease area at an interval of 100 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
- Evacuation of sand should not be allowed through the roads passing through the villages.
- Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
- If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
- The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
- No diversion of active channel should be allowed for mining.
- 20 meter area be left from the northern side of the banks in the QL as no mining area to avoid bank erosion.

The above case was placed before the committee in the 29th SEAC meeting dated 03/06/2016 for issuance of corrigendum as in this case due to typographical error quantity recommended for EC in the 20th SEAC meeting dated 24/04/2016 was 4,40,000 cum/year while PP has applied only for 40,000 cum/year and the mine plan was also approved for the quantity of 40,000 cum/year. Committee after deliberations decided that the quantity may be revised and now recommended for 40,000 cum/year and other conditions will remain same as per the recommendations of 20th SEAC meeting dated 24/04/201.

SEIAA vide letter dated 31/10/2018 has sent back the file for re-examination the case wrt to a complaint and give factual report and thus the file was placed before the committee for necessary action and recommendations.

On perusal of case file it was observed by committee that the case was appraised on the basis of documents & mine plan submitted by the sub-lessee M/s Vadansh Minerals Resources and lessee MP State Mining Corporation limited. In this case the complainant has raised the issue of lease area wherein when verified from the case file it is observed that as per mine plan and all the other documents the lease area is mentioned as 10.00 ha and even the

District Collector & mining Officer in Eakal Preman Patra has mentioned the area as 10.00 ha. The MP State Mining Corporation limited, Bhopal in the letter of acceptance has too mentioned that area as 10.00 ha. On the basis of all such documents the case was appraised and recommendations were made. Now a complaint has been made wherein the issue of lease area from 10.00 ha to 4.00 ha has been raised and as per the documents attached with the file the matter is in process between MP State Mining Corporation limited, PP and District collector and sufficient evidence is not available in the file (except the copy of order in case no. 24/16-17/ V121 dated 12/02/2918 wherein recommendations for cancellation of lease is made) that the sanctioned lease is cancelled by the MP State Mining Corporation limited, MRD/ GoMP / District Collector.

On perusal of above facts committee recommends that SEIAA may call a meeting with all the concerned to decide the issue of lease and its area and if the lease is cancelled by the concerned department then EC may be rejected as per the procedure laid down in clause 08 (vi) of EIA Notification, 2006.

19. Case No. - 5637/2018 Shri Gaya Prasad Agrawal S/o Shri Jagdish Prasad Agrawal, Village - Amarkantak, Tehsil - Pushparajgarh, Dist. Anuppur, MP – 484886 Prior Environment Clearance for Stone Quarry in an area of 7.639 Ha.. (41,249 cum per annum) (Khasra no. 407/13, 406/4, 406/6, 406/7, 419/3k, 419/3kha, 407/1, 408/1) at Village- Bartola, Tehsil - Pushparajgarh, Dist. Anuppur (MP)

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 407/13, 406/4, 406/6, 406/7, 419/3k 419/3kha, 407/1,408/1) at Village- Bartola, Tehsil - Pushparajgarh, Dist. Anuppur (MP) 7.639 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. 401 dated: 08/09/2017 has reported that there is no more mines operating or proposed within 500 meters around the said mine.

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

S. No	Particulars	Details
1	Name of the project & its location:	7.639 Hectare Bartola Stone Quarry Of

		Gaya Prasad Agrawal S/o Shri Jagdish Prasad Agrawal At Village-Bartola, Tehsil-Pushparajgarh Dist. Anuppur (M.P)				
2	Name of the Company, Address Tele No. & E-mail :	Gaya Prasad Agrawal S/o Shri Jagdish Prasad Agrawal Village- Amarkantak, Tehsil-Pushparajgarh Dist. Anuppur (M.P) 484886 Email: gpa201718@gmail.com Contact No.: 7909557920				
3.	Latitude and Longitude of the project	COORDI NATE	PILLAR NO.A	PILLA R NO.B	PILLAR NO.C	PILLA R NO.D
		Latitude	22°58'11.91 "N	22°58'1 2.48"N	22°58'16.86 "N	22°58'22 .72"N
		Longitude	81°27'55.88 "E	81°27'5 3.25"E	81°27'53.07 "E	81°27'53 .25"E
		PILLAR NO.E	PILLAR NO.F	PILLA R NO.G	PILLAR NO.H	PILLA R NO.I
		22°58'22. 81"N	22°58'26.64 "N	22°58'3 0.03"N	22°58'31.99 "N	22°58'33 .15"N
		81°27'55. 56"E	81°27'58.01 "E	81°28'0 1.03"E	81°28'01.99 "E	81°28'03 .26"E
		PILLAR NO.J	PILLAR NO.K	PILLA R NO.L	PILLAR NO.M	PILLA R NO.N
		22°58'33. 08"N	22°58'27.97 "N	22°58'2 6.51"N	22°58'15.03 "N	22°58'15 .22"N
		81°28'04. 07"E	81°28'03.47 "E	81°28'0 2.29"E	81°28'00.09 "E	81°27'59 .02"E
4.	If a Joint venture, the names & addresses of the JV partners including their share	Lease Owner				
5	Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.	New Lease Area 7.635 Hect. Mineral – Basalt- Capacity : 41249 Cu.m Per Year Lease Period- 10 Year (17-18 to 26-27)				
6	Whether the project is in the Critically Polluted Area (CPA):	No.				
7	Cost of the project :	16 lakhs (Approx.)				

8	Employment generated/to be generated:	15-20
9	Benefits of the project:	It's a mine of Basalt mineral.
9	Whether new or expansion project. If expansion: (i) from MT to MT (ii) ii What is the % of expansion	It's a new project.
10	If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006.	No
11	If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEF	No
12	No. and Date of the ToR /and revised ToR, if any, letter issued by the authority.	N.A.
13	No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent)	N.A.
14	If the project was considered in EAC, Pl. gives dates of the meeting (s).	No
15	Type of Mine: (Open cast/Underground/mixed)	Open cast Mine
16	Capacity of the mine applied for	7.369 Hect.
17	ML Area i. As per block allotment ii. As per approved mine plan	7.369 Hect.
18	Date of approval of mine plan, mine closure plan, status & date	Approval Letter no. 2007 Date. 30.12.2017
19	Date of Board's approval:	No

20	Date of Ground water clearance:	No
21	Date of mine closure approval	Mine lease is approved for the period of 10 years from 30.12.2017
22	Cost of proposed EMP and CSR (with detailed components & proposed activities) with capitol cost and recurring cost	Details of EMP & CSR is given below:

ANNUAL COST OF ENVIRONMENTAL PROTECTION MEASURES			
Sr. No.	Environmental Management	Details of expanses	Expenses per Year (in Rs.)
1.	EMP Cost	Production cost @ Rs. 200 / cu.m. Total production cost = Rs. 8249800 (41249 m ³) EMP cost = 3 % of total production cost	247494.00
a	Dust suppression (Haul Road Length = 500 M X 6 M)	Water cost = @ Rs. 100 / tanker * 3 * 240 days	72000.00
b	Development of green belt area	Budgetary provision for plantation and its maintenance @ Rs. 200/ plant * 80 plants = Rs. 16000/- Gardener Expenses = Rs. 60000/- Other Expenses = Rs. 24000/-	100000.00
c	Environment Monitoring	Annual monitoring cost (six monthly basis one sample of Air/Water/Noise Level) @ Rs. 30000	60,000.00
d	Reclamation/Rehabilitation	Not Require	Nil
e	Miscellaneous		15494.00
Total			247494.00

ANNUAL COST CSR ACTIVITIES					
Sr. No.	CSR Activities	Details of expenses			
1	Total CSR budget	Total production = 41249 cu.m. Profit per cu.m.=Rs. 100 = Rs. 4124900 Budget for CSR @ 3 % of the total profit			
a.	Construction of Classrooms and Sanitation facilities in nearby School.	40 % of annual CSR budget			
b.	Distribution of Books and other stationeries to the children of nearby school.	30 % of annual CSR budget			
c.	Health camps	15 % of annual CSR budget			
d.	Energy conservation awareness through distribution of solar lamps.	15 % of annual CSR budget			
Total					
3	Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions.	Details are given below:			
A	B	C		D	E
Year	Plantation during the year (No. of saplings)	Area covered during the year in m ²		Survival rate%	Remarks location/ Species
		BARRIER ZONE	Green belt Nos./area (Sqm)		
2017-18	80	1860.2	80/1860.2	80	Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Awala-20 Nos., Plantation @ 1/3 m ²
					Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Kachnar-20 Nos., Plantation @ 1/3 m ²

2018-19	80	1860.2	80/1860.2	80	Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Awala-20 Nos., Plantation @ 1/3 m2
2019-20	80	1860.2	80/1860.2	80	Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Kachnar-20 Nos., Plantation @ 1/3 m2
2020-21	80	1860.2	80/1860.2	80	Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Awala-20 Nos., Plantation @ 1/3 m2
2021-22	80	1860.2	80/1860.2	80	Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Awala-20 Nos., Plantation @ 1/3 m2
2022-23	80	1860.2	80/1860.2	80	Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Awala-20 Nos., Plantation @ 1/3 m2
2023-24	80	1860.2	80/1860.2	80	Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Kachnar-20 Nos., Plantation @ 1/3 m2
2024-25	80	1860.2	80/1860.2	80	Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Awala-20 Nos., Plantation @ 1/3 m2
2025-26	80	1860.2	80/1860.2	80	Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Kachnar-20 Nos., Plantation @ 1/3 m2
2026-27	80	1860.2	80/1860.2	80	Neem -20 Nos., Sissoo-20 Nos., Mango-20 Nos., Awala-20 Nos.,

						Plantation @ 1/3 m2
	Total	800	18602 m ²	800/18602	80	
333 No. of additional trees will be planted both side of the 500 mtr. Long haul road within the time period of 10 years.						
4	Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details.		No			

The case was presented by the PP and their consultant in the 308th SEAC meeting dated 24/02/2018 wherein after presentation PP was asked to submit response on following:

1. The gradient of the QL is very high thus haul road layout commensurate to the gradient shall be submitted.
2. As per the Google image of November, 2016 on the both side of lease natural drains are in existence thus Pp was asked to submit revised map leaving 50 meters area for the natural drain as per MMR, 1996.
3. Drawing and design of garland drains and settling pits on surface map considering peak rainfall and existence of natural drain on both sides of the lease.
4. Revised plantation scheme as suggested by the committee.
5. Proposal for overhead sprinkling system with budgetary provisions in EMP.
6. Proposal for 03 meter MS wall all around the crusher with budgetary provisions in EMP.
7. Revised EMP with bifurcation in capital and recurring.
8. Proposal for occupational health survey for the workers with their number.

PP vide letter dated 01/03/2018 has submitted the reply of above queries which was placed before the committee in the 310th. SEAC meeting dated 24/03/2018. The reply submitted by PP found satisfactory and acceptable hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

- Production of Stone as per mine plan with quantity not exceeding 41,249 cum/year.
- The lease area should be clearly distinguished and earmarked at the site.
- A crusher is also proposed within the lease area for which wind breaking wall of minimum 03 meters height of MS should be erected all around the crusher to avoid fugitive emissions.
- PP should explore possibility of using solar lights in office /rest areas.

- As per the Google image of November, 2016 on the both side of lease natural drains are in existence thus additional 50 meters area excluding 7.5 meter barrier zone shall be left as non-mining area for the natural drain as per MMR, 1996.
- Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area.
- Approach road from site to the main road will be maintained by the PP.
- Top soil shall be simultaneously used for the plantation.
- A budgetary provision for Environmental management Plan of Rs. 4.85 lacks (capital) is made with a recurring expenditure of 2.39 Lacks. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return. Under CSR Rs. 03.00 lacks/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

SEIAA vide letter no. 996 dated 12/06/2018 has sent back the file for reappraisal as “this lease area seems ecologically and environmentally sensitive as mining activities may lead to adverse impact on the two tributary flowing in the close vicinity of the lease area.”

The case file was placed before the committee wherein on perusal of the case file committee observed that during presentation and appraisal of this case proper justification was provided and explained by the proponent in the 308th SEAC meeting dated 24/02/2018 that, in the project Total applied area was 9.712 Hectare out of this 2.073 Ha., area has been earmarked by the collector as a protected area due to natural drainage passing nearer to the lease area, accordingly the deducted mining lease area which is 7.639 Ha., has been sanctioned to lessee for mining activity. Lessee has applied for environmental clearances accordingly with sanctioned mining plan on the marked & approved land area. The approved marked map is attached with details on slide no. 09 of the PPT. (Dated on 24/02/2018).

The Committee has been observed the details and maps during the presentation and asked to the lessee to submit a complete garland drain and settling tanks planning for the conservation of natural drainage; accordingly the plan was submitted by the PP dated on 12/03/18 showing the distances from the natural drain and the planning of garland drains; which has been found satisfactory with respect to the required production quantity. Further, existence of two natural drains was taken into consideration by the committee and a specific condition was stipulated in

the recommendations made for EC as “As per the Google image of November, 2016 on the both side of lease natural drains are in existence thus additional 50 meters area excluding 7.5 meter barrier zone shall be left as non-mining area for the natural drain as per MMR, 1996”, and accordingly the case was recommended by the committee for the prior grant of environmental clearance. Thus committee on the basis of above submissions recommends that since the observations made by SEIAA has already been addressed in the appraisal of the case, the recommendations made by the committee in the 308th SEAC meeting dated 24/02/2018 may be considered for grant of prior EC.

20. 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. (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.

Earlier this case was recommended for the grant of prior EC in the 314th SEAC meeting dated 10/05/2018. Then this case was discussed in 488th SEIAA meeting dated 30.05.2018 and it is recorded that:

- A. A complaint letter received from Convener of Narmada Bacchao Andolan in which number of issues raised regarding the Berkheda medium irrigation project and PP has submitted point-wise reply of the related issues, it is decided to send the team of SEAC for site visit and also to cross check/verify the issues raised in the complaint and reply submitted by PP for factual status. Accordingly re-appraise the case in line of above.
- B. Besides this PP should also submit the details of compensation regarding land aquisitions, and displacement of families due to construction of dam.

The case was scheduled for the presentation in the 321st SEAC meeting dated 16/08/2018 wherein it is recorded that “PP vide letter no. 2541 dated 13/08/2018 has requested to postponed the presentation as their consultant is unable to attend this meeting which was placed before the

committee. Committee accepted the request made by the PP and decided to call the PP in 324th SEAC meeting dated 19/08/2018 if time permits”.

The case was presented by the PP and their consultant in the 234th SEAC meeting dated 19/08/2018 as per the instruction of SEIAA to cross check/verify the issues raised in the complaint and reply submitted by PP for factual status. Following officials on behalf of PP were present during the presentation:

1. Shri Rajeev K. Suklikar, E-IN-C, WRD, Govt. of MP.
2. Shri B. S. Sankat, EE, WRD, Manawar, District: Dhar.
3. Shri Yogesh Birla, SDO, WRD, Manawar, District: Dhar.
4. Shri S. K. Nigam, Environmental Consultant.
5. Shri Santosh K. Kulkarni, Environmental Consultant

During presentation PP submitted that due to heavy rains in the project area site visit is not possible as the road is kachha and site is not approachable. PP further submitted that they have also submitted an affidavit dated 18/08/2018 (vides letter no. 2612 dated 19/08/2018) along with revised EIA/EMP stating the same and site inspection is possible only after October, 2018. However, PP made the point wise presentation of the issues raised in the complaint. During presentation PP informed that they have not carried out any work at the project site only works related to the subsurface geotechnical investigation were carried out which are essential for design and drawings related to the project. For other issues, PP made detailed presentation before the committee. After presentation, PP was asked to submit following documents:

1. Copy of the letter issued to the district collector, Dhar for formation of committee for actual social survey.
2. Commitment letter from PP that written consent will be taken from individuals against onetime payment of settlement.
3. Consent letter from PP regarding higher compensation package which is more beneficial for the affected PAF's.
4. Increase in irrigation potential in commend area shall also be provided in % values.
5. Cost against FRA shall be provided.
6. Copy of demand letter of LAO and PD A/c Advice shall be submitted.
7. Copy of demand note of forest department and challan submitted by PP.

PP vide letter no. 2620 dated 19/08/2018 has submitted the above information which was placed before the committee. The committee found the information submitted by PP satisfactory and acceptable and decided that the case with point wise reply of complaint made may be sent to

SEIAA for further necessary action along with the recommendations made by SEAC in its 314th meeting dated 10/05/2018. However, site visit could not be carried out as PP has submitted that the site is not approachable till October, 2018. SEIAA discussed the issue in their 505th meeting dated 26/09/2018 and decided that for visualization of factual status site visit shall be carried out.

As instructed by SEIAA, a sub-committee of SEAC visited the site and submitted the inspection report (Annexure-1) which is as follows:

SITE INSPECTION REPORT of 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.

Background

TOR for the above project was recommended in the 278th meeting of SEAC dated 14/06/2016. 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 in the 313th SEAC meeting dated 18/04/2018 wherein certain queries were issued to the PP. PP vide letter no. 1283/W/2018 dtd 08.05.2018 submitted reply of the above queries which was placed for discussion in the 314th SEAC meeting dated 10/05/2018 and after discussion, the case was recommended for grant of EC to SEIAA. Later on this case was discussed in 488th SEIAA meeting dated 30.05.2018 wherein SEIAA decided that a complaint is received in which number of issues raised regarding the Berkheda medium irrigation project and PP has submitted point-wise reply of the related issues, it is decided to send the team of SEAC for site visit and also to cross check/verify the issues raised in the complaint and reply submitted by PP for factual status. The case was scheduled for the presentation as per the decision of SEIAA in the 321st SEAC meeting dated 16/08/2018 wherein "PP vide letter no. 2541 dated 13/08/2018 has requested to postponed the presentation as their consultant is unable to attend this meeting. Committee accepted the request made by the PP and decided to call the PP in 324th SEAC meeting dated 19/08/2018. During presentation PP submitted that due to heavy rains in the

project area, site visit is not possible as the road is kachha and site is not approachable till October, 2018. However, the reply submitted by PP on issues raised in the complaint was appraised by the committee and same was submitted to SEIAA. SEIAA discussed the issue in their 505th meeting dated 26/09/2018 and decided that for visualization of factual status site visit shall be carried out.

As decided, Shri Prashant Shrivastava and Shri R. Maheshwari, Member SEAC visited the site on 22/10/2018 along with Dr. Abhaya Saxena, MPPCB, Bhopal. Following officials for the Barkheda Project and local residents were also present during site inspection:

1. Shri P. Joshi, SE, WRD, Barkheda Project, Manawar. District Dhar, MP.
2. Shri B. S. Sankat, EE, WRD, Barkheda Project, Manawar. District Dhar, MP.
3. Shri J. K. Kushwaha, Sub Engineer, WRD, Manawar. District Dhar, MP.
4. Shri Juwar Singh Anare, Sarpanch (Barkheda Panchayat)
5. Shri Sunil S/o Shri Dagar Singh Tol R/o Village Tol.
6. Shri Ramesh S/o Baloo R/o Village Barkheda.
7. Shri Raju S/o Ramesh R/o Village Tol.
8. Shri Anter S/o Malsingh R/o Village Reharda.

Location of the project

Berkheda Irrigation Project is proposed on River Uri near Tole/Berkheda village of Tehsil Kukshi, District Dhar. 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.

S.No	Details	BERKHEDA PROJECT
1.	State	Madhya Pradesh
2.	District	Dhar
3.	Tehsil & Block	Kukshi
4.	River	Uri ,a tributary of river Narmada
5.	Accessibility	At a distance of 80 Km from Dhar.

VILLAGES UNDER SUBMERGENCE

1.	Village under full submergence	NIL
2.	Partially Submerged Villages	07 of Tehsil Kukshi & Gandwani
3.	Total effected Population of villages	684Nos (ST 684, SC 0)
4.	Total effected No. of Families in villages	168Nos (ST 168, SC 0)
5.	Number of Houses	65 No.

There are 07 number villages coming in partially submergence namely Tole, Bandhaniya, Pipari in tehsil Kukshi and Reharda, Kojakuwa, Kadwal, Mujalda in tehsil Gandhwani.

Observations

Initially, Site was viewed from a hill top adjacent to the project site for bird eye view and later on the team also went to the project's ground location/site to ascertain the status. Panchanamas were made during site visit at the top view of the dam and on the dam site in the presence of officials and local residents which are annexed as Annexure-1 & 2.

Following observations were made during site visit;

1. A trench measuring approx. 250 meters to 300 meters long and 4.5 meters to 05 meters wide at the bottom has been burrowed (dugged out) at the project site by PP. The top width of this trench is varying from approx. 09 meter to 12.00 meters. During discussion PP submitted that this trench is created for the geo-technical investigation prior to finalization of site of dam and its design & drawings. It has been found at the site that the earth has been dugged out and a query has been excavated.
2. It has been found that the area marked as spill way in the drawing of DPR has been also been dugged out. On discussion it is found that it is aligned as per proposed spillway which is a part of the project activities.
3. PP submitted during discussions that geo technical studies has been conducted after obtaining TOR to finalize actual sitting of dam and subsequently to assess the area of submergence and calculation of forest land in line with the MoEF&CC OM No. J-15012/5/2013-IA-I dated 01/08/2013.
4. After deliberate discussion on submissions made by PP that that this digging is carried out to generate the data for geo-technical study of the dam site committee observed that in

proposed EMP the budgetary allocations are proposed for following relevant activities in the 20 point EMP:

SL. No	PARTICULARS	AMOUNR (In Rs.)
1.	GREEN BELT DEVELOPMENT PLAN	29.00 Lacks
2.	RIM TREATMENT PLAN	47.00 Lacks
3.	MUCK MANAGEMENT PLAN	72.00 Lacks
4.	LANDSCAPE & RESTORATION PLAN	5.50 Lacks
5.	RESTORATION PLAN FOR QUARY SITE	8.00 Lacks

5. After site inspection PP was asked to submit written statement on above activities with subsequent details on basin map & line diagram.
6. PP vide letter no. 3613 dated 01/12/2018 further submitted that the digging of spill way is a part of project activity for which financial allocations has been made. The digging of spillway for geo-technical investigations helps in generating the base data thus eliminating any extra work and saving in cost otherwise also this digging is required for constructing spillway. (Annexure-3)

Recommendations

From the above it is clear that PP has digged the earth aligned with the dam line and spillway. Although the land use has been changed by PP but the excavated area is aligned as per drawings and part of the project report. No other construction activities/ machineries are observed by the committee at the site except a temporary site office for security purpose. The EMP is proposed by PP as per the standard TOR/EIA. Committee agree with the submission of PP that for geotechnical investigations, this digging is required to finalize the drawing, design & subsequently cost estimates of the dam. Being forest land is involved in the project; actual sitting of dam and subsequently to obtain area of submergence, trench digging for geotechnical investigations was must to make application for forest land as per the MoEF&CC OM No. J-15012/5/2013-IA-I dated 01/08/2013.

The report of sub-committee and its recommendations were placed before the committee. Committee after deliberations and agreeing with the recommendations decided that the recommendations made by sub-committee may be sent to SEIAA for onward necessary action.

21. **Case No.4379/15 Shri Kailash Chandra Gupta, M/s Esteem Infrabuild Pvt. Ltd., P-4, Lal Bahadur Nagar, Durgapura, Jaipur (Raj.) Prior Environment Clearance for approval of Sand Quarry in an area of 16.250 ha. (1,62,000 cum/year) at Khasra no.- 278, Village-Bheekampura, Tehsil-Sevda, District-Datia (MP).**

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no. - 278, Village-Bheekampura, Tehsil-Sevda, District-Datia (MP) 16.250 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no.451, dated: 20/8/2015 has reported that there are 06 more mines operating or proposed within 1000 meters around the said mine with total area of 31.25 ha including this mine.

Earlier this case was presented by the PP and their consultant in 52nd SEAC-II meeting dated-12/10/2016, wherein it was observed that:

“Please refer minutes of 259th SEAC meeting dated-06/01/2016 where TOR was approved and the TOR was issued to the PP vide letter no. 420 dated 02/03/2016.

MP State Mining Corporation Limited, Bhopal vide their letter no.400 dated 09/08/2016 has also informed that it is a case of non-cluster as per GOI, MoEF&CC notification dated 01/07/2016 as this lease was sanctioned prior to the 09/09/2013. Concerned Mining Officer vide letter no. 910 dated 29/07/2016 has issued a certificate stating that above lease was sanctioned vide order no. F4-1/2010/12/01 dated 22/09/2010 and thus does not falls under the perview of cluster approach as per GOI, MoEF&CC notification dated 01/07/2016.

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

The case was presented today by the PP and their consultant and during presentation it was observed that as per the Google image of Dec. 2015 based on the co-ordinates provided by the PP that more than 40% of lease area is submerged in water, but with the available dry area demanded quantity of sand can be evacuated. Hence, after presentation, PP was asked to submit following information:

1. *Revised EMP considering the length of evacuation route to be 2.5 km for maintenance as suggested by the committee during presentation,.*
2. *Environmental policy of the company.”*

The PP vide letter dated 04/11/2016 has submitted the reply which was placed before the committee for further evaluation. The committee after deliberation in its meeting no 59th dated 11/11/2016 observed that the PP has submitted the desired information which is satisfactory and acceptable, hence the committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure ‘B’:

1. Production of Sand as per mine plan with quantity not exceeding 1,62,000 cum/year.
2. District Authority should record the deposition of sand in the lease area at an interval of 100 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
3. Evacuation of sand should not be allowed through the roads passing through the villages.
4. Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
5. If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
6. The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
7. No diversion of active channel should be allowed for mining.

SEIAA vide letter no. 1632 dated 31/10/2018 has sent back the file to SEAC for examination on the basis of a complaint sent by Mining Officer, Datia and the same was placed before the committee.

Committee on perusal of the case files observed that Mining Officer, Datia has forwarded a complaint made by letter dated 30/08/2018 wherein it is stated that mines named as Bhikampura A & B are in cluster. On perusal of the recommendations of the case committee observed that the reason for not considering these mines in cluster are justified in the minutes of this case itself which reads as follows:

“MP State Mining Corporation Limited, Bhopal vide their letter no.400 dated 09/08/2016 has also informed that it is a case of non-cluster as per GOI, MoEF&CC notification dated 01/07/2016 as this lease was sanctioned prior to the 09/09/2013. Concerned Mining Officer vide letter no. 910 dated 29/07/2016 has issued a certificate stating that above lease was sanctioned

vide order no. F4-1/2010/12/01 dated 22/09/2010 and thus does not falls under the perview of cluster approach as per GOI, MoEF&CC notification dated 01/07/2016”.

Committee after deliberations decided that since the reason of not considering this lease in cluster is mentioned in the minute which is as per the MoEF&CC notification dated 01/07/2016, same may be forwarded to SEIAA for onward necessary action with submission that MO, Datia may also be requested to verify the contents before forwarding the complaint to SEIAA.

22. Case No.4368/15 Shri Atul Gondal, M/s Prime Vision Industries Pvt. Ltd., Sub Lessee, M.P. State Mining Corporation Ltd., 303, 3rd Floor, Vishal Chamber, P-1, Sector-18, Noida-201301. Prior Environment Clearance for approval of Sand Quarry in an area of 15.00 ha. (1,50,000 cum/year) at Khasra no.-278, Village-Bheekampura, Tehsil-Sevda, District-Datia (MP).

This is case of Sand Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-278, Village-Bheekampura, Tehsil-Sevda, District-Datia (MP) 15.00 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 1000 meters radius around the site and requisite information in the prescribed format in the form of combined NOC by OIC. Concerned Mining Officer vide letter no. 450 dated: 20/8/2015 has reported that there is 01 more mine operating or proposed within 1000 meters around the said mine with total area of 31.250 ha including this mine.

Earlier this case was presented by the PP and their consultant in 51th SEAC-II meeting dated-11/10/2016, wherein it was observed that:

“Please refer minutes of 268th SEAC meeting dated-16/01/2016 where TOR was approved and the TOR was issued to the PP vide letter no. 228 dated 02/03/2016.

MP State Mining Corporation Limited, Bhopal vide their letter no.400 dated 09/08/2016 has also informed that it is a case of non-cluster as per GOI, MoEF&CC notification dated 01/07/2016 as this lease was sanctioned prior to the 09/09/2013. Concerned Mining Officer vide letter no.909 dated 29/07/2016 has issued a certificate stating that above lease was sanctioned vide order no. F4-1/2010/12/01 dated 22/09/2010 and thus does not falls under the perview of cluster approach as per GOI, MoEF&CC notification dated 01/07/2016.

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

The case was presented today by the PP and their consultant. After presentation, PP was asked to submit following information:

- 1. Revised CSR as suggested by the committee with name of its effected villages where CSR activity shall be carried out.*
- 2. Environmental policy of the company.”*

The PP vide letter dated 03/11/2016 has submitted the reply which was placed before the committee for further evaluation. The committee after deliberation observed that the PP has submitted the desired information which is satisfactory and acceptable, hence the committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure ‘B’:

1. Production of Sand as per mine plan with quantity not exceeding 1,50,000 cum/year.
2. District Authority should record the deposition of sand in the lease area at an interval of 100 meters annually in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority may allow lease holder to excavate the replenished quantity of sand in the subsequent year.
3. Evacuation of sand should not be allowed through the roads passing through the villages.
4. Heavy vehicles (Hywa) should not be allowed on Kachcha, narrow roads.
5. If causeway (Rapta) is required to be constructed for mining. It should be removed completely before rainy season every year.
6. The river bank from where access ramps are made should be restored and access should be closed every year before rainy season.
7. No diversion of active channel should be allowed for mining.

SEIAA vide letter no. 1633 dated 31/10/2018 has sent back the file to SEAC for examination on the basis of a complaint sent by Mining Officer, Datia and the same was placed before the committee.

Committee on perusal of the case files observed that Mining Officer, Datia has forwarded a complaint made by letter dated 30/08/2018 wherein it is stated that mines named as Bhikampura

A & B are in cluster. On perusal of the recommendations of the case committee observed that the reason for not considering these mines in cluster are justified in the minutes of this case itself which reads as follows:

“MP State Mining Corporation Limited, Bhopal vide their letter no.400 dated 09/08/2016 has also informed that it is a case of non-cluster as per GOI, MoEF&CC notification dated 01/07/2016 as this lease was sanctioned prior to the 09/09/2013. Concerned Mining Officer vide letter no. 910 dated 29/07/2016 has issued a certificate stating that above lease was sanctioned vide order no. F4-1/2010/12/01 dated 22/09/2010 and thus does not falls under the perview of cluster approach as per GOI, MoEF&CC notification dated 01/07/2016”.

Committee after deliberations decided that since the reason of not considering this lease in cluster is mentioned in the minute which is as per the MoEF&CC notification dated 01/07/2016, same may be forwarded to SEIAA for onward necessary action with submission that MO, Datia may also be requested to verify the contents before forwarding the complaint to SEIAA.

23. Delisting of TOR as their validity has expired.

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

SN	Case No. Activity	SEAC Meeting details	ToR Validity
1.	Case No. – 2726/2015 Shri Raj Kumar Nema, OIC, Sub Off., M.P. State Mining Corporation Ltd., H.No. 12, Ward No. 17, Sainath Colony, Meenakshi, Hoshangabad	ToR Recommended in 230 th SEAC meeting date 07/11/15.	ToR Valid up to 25/10/2018.

(Mohd. Akram Khan)
Member

(Dr. A.K. Sharma)
Member

(Dr. J. P. Shukla)
Member

(R. Maheshwari)
Member

(Prashant Shrivastava)
Member

(Mohd. Kasam Khan)
Chairman

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

Annexure- 'A'

Standard conditions applicable to Stone/Murrum and Soil quarries:

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

Annexure- 'B'

Standard conditions applicable for the sand Mine Quarries*

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

Annexure- 'C'

Standard conditions applicable for the Khodu Bharu sand Mine Quarries*

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

Annexure- 'D'

General conditions applicable for the granting of TOR

1. The date and duration of carrying out the baseline data collection and monitoring shall be informed to the concerned Regional Officer of the M.P Pollution Control Board.
2. 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.
3. An inventory of flora & fauna based on actual ground survey shall be presented.
4. Risk factors with their management plan should be discussed in the EIA report.
5. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
6. The EIA document shall be printed on both sides, as far as possible.
7. All documents should be properly indexed, page numbered.
8. Period/date of data collection should be clearly indicated.

9. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
10. 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.
11. 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.
12. Grant of TOR does not mean grant of EC.
13. 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.
14. 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.
15. 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.
16. All the necessary NOC's duly verified by the competent authority should be annexed.
17. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
18. 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.
19. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
20. 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.
21. 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.
22. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
23. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.

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

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