

PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE, ODISHA HELD ON 16th DECEMBER, 2020

The SEAC met on 16th December, 2020 at 03:00 PM in the Conference Hall of Odisha State Pollution Control Board, Bhubaneswar under the Chairmanship of Sri B.P. Singh. The following members were present in the meeting.

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| 1. Sri. B. P. Singh | - | Chairman |
| 2. Dr D. Swain | - | Member |
| 3. Sri. J. K. Mahapatra | - | Member |
| 4. Prof. (Dr.) B.K. Satpathy | - | Member |
| 5. Er. K.R. Acharya | - | Member |

I. **CONSIDERATION OF MINOR MINERAL PROPOSALS (COMPLIANCE RECEIVED):**

The committee verified 81 nos. of minor mineral proposals (compliance received) on the basis of MoEF&CC, Govt. of India OM no. F. No. L-I 1011/175/2018-IA-II (M), dated 12.12.2018. The case-wise proceedings and observations of the committee are detailed in Table as per **Annexure – A**. The proposals of following categories are:

Total no. of proposals	Type of proposals	No. of proposal	Decisions of the committee
81	Stone Quarries and other (57)	46	The committee considered the proposals as B2 category and recommended for Environmental Clearance.
		06	Clarification to be sought from the concerned Tahasildar.
		04	SEAC recommended to return/reject the proposals to SEIAA
		01	SEAC recommended for site visit
	River Sand (24)	23	The committee considered the proposals as B2 category and recommended for Environmental Clearance.
		01	Clarification to be sought from the concerned Tahasildar.

II. **CONSIDERATION OF COUNTRY LIQUOR PROPOSAL IN JHARSUGUDA AREA (AS DECLARED EARLIER AS CRITICALLY POLLUTED AREA).**

- a) The project proponents of 5 country liquor proposals (as per **Annexure-B**) in Jharsuguda district had applied for fresh EC with a request to reconsider the proposals for EC w.r.t the notification of MoEF&CC, Govt. of India on 31.10.2019 which stipulates that Category B2 projects shall be considered at the state level stipulating Environmental Clearance conditions as applicable for the Category “B1” projects/ activities with additional conditions incorporated for environmental protection.
- b) SEAC in its meeting Dt:20.02.2020 had verified those 5 country liquor proposals and recommended for grant of Environmental Clearance as B2 category with additional

conditions incorporated for environmental protection (as applicable) as per MoEF&CC, Govt. of India O.M. No. 22-23/2018-IA.III(pt), dated 31.10.2019.

- c) These proposals (05 nos.) were disposed off by SEIAA on dated 7.3.2020 with an observation that Mohua Flower based country liquor units being distilleries are B1 category projects (as per EIA notification, 2006) and are also located within Critically Polluted Area (CPA) or within 5 km of CPAs, the project proponent may apply for environmental clearance to MoEF&CC, Govt. of India in accordance with notification dated 31.10.2019 of MoEF&CC, Govt. of India.
- d) The Project Proponent had stated that the CPCB had submitted revised CEPI score for 100 PIAs, it is mentioned that Jharsuguda, Odisha (Sl. No. 98) has a CEPI score 37.20 and is not coming under Critically Polluted Area.
- e) The appeal of the proponent was placed in the meeting of SEIAA held on 22.10.2020 and the SEIAA has recommended that the SEAC may examine the contention of project proponent and give their views on the matter to SEIAA for reconsideration of EC by SEIAA for these 05 nos. Mohua Flower country liquor units located in Jharsuguda district.
- f) The SEAC observed the following:
- Industrial clusters/Polluted Industrial Areas (PIAs) are classified on the basis of CEPI score in the following manner:

Classification	CEPI Score
Not Polluted / Marginally Polluted	<60
Severely polluted	60 – 70
Critically polluted	> 70

- The PIAs were monitored by CPCB periodically engaging NABL accredited Laboratory and CEPI score is evaluated by CPCB on the basis of said monitoring. The CEPI score evaluated during 2009, 2013 and 2018 are presented below :

The CEPI scores of Polluted Industrial Areas in Odisha*

Sl. No.	Critically and Severely Polluted Areas	CEPI Score		
		2009	2013	2018
1.	Angul – Talcher	82.09	72.86	45.72
2.	Jharsuguda	73.34	73.31	37.20
3.	Ib Valley	74.00	59.73	66.35
4.	Paradeep	69.35	Not evaluated	60.61
5.	Kalinga Nagar (Jajpur)	Not evaluated	Not evaluated	49.62

* Collected from State Pollution Control Board, Odisha

- The Hon'ble NGT vide its order dtd. 10-07-2019 on the Original Application no-1038/2018, has indicated the latest CEPI scores for 100 Polluted Industrial Areas / Clusters monitored during 2018. As per the latest CEPI assessment in 2018, there are no Critically Polluted Areas (CPAs) and there are two Severely Polluted Areas (SPAs) in Odisha. The two Severely Polluted Areas in Odisha are Paradeep (Sl. No. 66) with CEPI score 60.61 and Ib valley (Sl. No.49) with CEPI score 60.35 as per CEPI scores of 100 PIAs indicated in the order of the Hon'ble NGT dated 10.7.2019.

Earlier, Angul-Talcher and Jharsuguda were declared as Critically Polluted Area basing on the CEPI score notified at that time. Presently, the CEPI score of Angul – Talcher (Sl. No. 94) and Jharsuguda (Sl. No. 98) are 46.43 and 37.20 respectively as per CEPI scores of 100 PIAs indicated in the order of the Hon'ble NGT dated 10.7.2019. Hence, the Angul-Talcher and Jharsuguda area are not coming under Critically Polluted Area.

- The contention of the project proponent that the presently the Jharsuguda area is not coming under the Critically Polluted Area with a CEPI score of 37.20 is true. Conditions / guidelines stipulated in the MoEF&CC, Govt. of India O.M. dated 31.10.2019 may not be applicable for these 05 country liquor proposals located within Jharsuguda area.

After detailed discussion, the SEAC reiterated its earlier recommendation for grant of Environmental Clearance to these 05 country liquor proposals as category B2 projects with conditions applicable for country liquor units.

III. CONSIDERATION OF CATEGORY B PROPOSALS (COMPLIANCE RECEIVED):

A. PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR CONSTRUCTION OF COMMERCIAL PROJECT “HOTEL RASHMI PLAZA” AT JAYADEV VIHAR, PLOT NO. – J1, B/1334, BHUBANESWAR, DISTRICT KHORDHA OF M/S. HOTEL RASHMI PLAZA – AMENDMENT OF ENVIRONMENTAL CLEARANCE NOW PP HAS CHANGED THE BUILT-UP AREA FROM 28,278.31 SQMT TO 29021.73 SQ MT) OF M/S. HOTEL RASHMI PLAZA; RASMI RANJAN ROURAY – (AMENDMENT EC).

1. This is a proposal for amendment of Environmental Clearance of M/s. Hotel Rashmi Plaza for construction of commercial project “Hotel Rashmi Plaza” at Jayadev Vihar, Plot No. – J1, B/1334, Bhubaneswar, District Khordha of Rasmi Ranjan Rouray.
2. M/s. Hotel Rashmi Plaza has obtained Environment Clearance from SEIAA, Odisha vide letter no. 8696/SEIAA, dated 10.12.2013.
3. The proposal got extension of EC for 7 years vide letter no: 6208/SEIAA, dated 09.11.2018.
4. The project proponent had completed the construction and BDA verified the construction work and it was found that the built-up area has increased from 28,278.31 m² to 29,021.73 m². However, the plot area remains same i.e. 6515.38 m².
5. Building permission from BDA was obtained vide letter no. 10206/BDA, Bhubaneswar, dated 05.04.2019 for built up area - 29,021.73 m².
6. The project proponent has applied for amendment of EC due to increase in total built up area along with half yearly compliance report on EC conditions for the period October 2017 to March 2018.
7. The Commercial Project is located at Plot No. B/1334, Jayadev Vihar, Bhubaneswar, Odisha. The Co-ordinates of the project site are 20°18'41.42" N & 85°04'1.45" E. The project site is well connected through Nandankanan Road which is 0.33km away from the project site towards East direction. The nearest National highway is NH-5 which is 2.05km away from the project site towards South South East direction. The nearest railway station is Mancheswar railway station, about 3.18 km away from the project site. The nearest airport is Bhubaneswar airport at 6.42 km from the project site.
8. The proponent made a detailed presentation on the proposal before the Committee.

9. The SEAC in its meeting held on Dt: 17.07.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by a site visit of the SEAC sub-committee.
10. The project proponent has furnished compliances as desired by the committee vide letter nil dated 09.09.2020 as follows.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent
(i)	Certified copy of latest half yearly compliance Report (October, 2019 to March, 2020) to Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar	A latest half yearly compliance report to Environmental Clearance condition submitted to MoEF&CC Regional office, Bhubaneswar. Copy attached Annexure-I .
(ii)	Detailed on which portion of construction activity, the deviation in built-up has taken	The deviation in built-up layout plan and BDA approval copy attached Annexure-II .
(iii)	Details of Greenbelt area. Details of Plantation previously and proposed to be carried out	Details of greenbelt area, Details of plantation Copy attached as Annexure-III
(iv)	Submission of revised layout showing green belt, parking area, DG set location and drainage map	Submitted the revised layout showing green belt, parking area, DG set location and drainage map Copy attached as Annexure-III(a) .
(v)	Details of Parking area with regards to previously and proposed area may be furnished with percentage	Have Submitted the revised layout showing green belt, parking area furnished with percentage copy attached as Annexure-III(b) .
(vi)	Details of Solar system for previously and proposed plan (with actually done and proposed to be done) and percentage of total power to be provided	Now our project is not in operation stage due to some hotel interior work going on. After completion of the interior work we shall go for the solar plan accordingly.
(vii)	A comparative statement of consumption of water, generation of waste water, solid waste generation etc. for approved built-up area and deviation built-up area	A comparative statement report of consumption of water generation of waste water, solid waste generation etc. for approved built-up area and deviation built-up area. In view of the above minor deviation of the built-up area no pollution load like consumption of water generation of waste water, solid waste generation etc. rise in environment. Copy attached as Annexure-V .
(viii)	A short write up by project proponent why the proposal may not be considered under violation of EC Category	A short write up mentioning why that the proposal is not to be considered under violation of EC Category. Copy attached as Annexure-VI .
(ix)	Copy of approval letter along with building plan of BDA	Copy of approval letter along with building plan of BDA. Copy attached as Annexure-VII

11. The SEAC in its meeting held on Dt: 12.10.2020 decided to take decision on the proposal after a detailed site visit by the Sub-Committee of SEAC.
12. The sub-Committee of SEAC visited the project site on dated 19.10.2020 and following observations and recommendations were made:

A. Green Belt:

Observation: Green belt is not adequate. Decorative plants were found on the north side boundary earmarked for rain water harvesting pits and few decorative plants in patches in the landscape were found on south front side, on east side of the boundary, permanent structure was found including DG set and on west side, canopy is under construction with steel structure.

Recommendation:

- (i) The entire stretch of north side of the boundary with maximum possible width the covered in green belt with plantation of species and desired spacing in consultation with local forest authority.
- (ii) On west side the canopy under construction be suitably reduced and the entire stretch of the boundary with maximum width be covered with green belt like north side.
- (iii) On front south side, the land scaping be relocated and the entire side be converted to green belt.
- (iv) On east side, the left and boundary side patches be converted to green belt.
- (v) The total area under green belt shall not be less than 1360m² as specified in EC. Accordingly, they must submit the plan layout of plantation to meet the norms of coverage and an undertaking in form of a legal affidavit to execute it within 3 months' time.

B. Renewable Energy:

Not found the proponent must make provision for it like solar power and the plan with execution time frame for 5% of the total project power consumption. They must submit details of solar systems and energy to be used along with time frame for the implementation.

C. Water Balance:

- i) The proponent must submit the water balance (both for monsoon and non-monsoon period), they must also submit the water harvesting capacity & re-charging details vis-à-vis and the highest rainfall.
- ii) The proponent stated that their source of water is underground & Municipality as well. They must write to BMC/PHED/ WATCO for maximum water supply and any shortfall quantity be met from underground only. The details & the permission / NOC letter of WR Deptt./ CGWA including letter of BMC /PHED/WATCO be submitted to this effect.
- iii) The proponent should explore the possibility of full use of rain water harvesting in view of re-charging after treatment to make it domestic use worthy, using latest technology and submit e-techno-economic feasibility report within 06 months' time.
- iv) The sound / noise from STP/Chiller plant is unbearable and they must take technically remedial measure to arrest the sound to bring it within the norms.

D. Parking:

They must submit the details of parking area and in terms of ECS/equivalent two wheelers with respect to hotel occupancy as well floating population from commercial establishment. The project proponent should ensure that there will be no parking on the public road.

- i) To submit the order copy of Hon'ble High Court of Orissa and Supreme Court along with the letter of Chief Secretary on forest clearance as to the Kisam of the land on the hotel complex.
- ii) Environmental clearance condition compliance wherever not complied within a definite time frame through an undertaking.

13. Now the project proponent has furnished compliances as desired by the committee as follows.

- i) Copy of Supreme court of India judgement & order CC 529/2008 in WP No-982/2007 of the High court of Orissa.
- ii) Copy of High court of Orissa, Cuttack WP@ no-982 of 2007.
- iii) Copy of High court of Orissa, Cuttack RVWPET No. 99/2007.
- iv) Copy of Govt. clearance regarding Forest diversion proposal against the allotment of Land, Order no- GAD-CA-4-MISC-0060-2015-16071 dt.11.06.19.
- v) Copy of Refusal order of supply water by The Executive Engineer PH Division II, Bhubaneswar.
- vi) Copy of sanction order for water supply connection by WATCO, Bhubaneswar dt.22.01.2020 order no-3756 AE(P)2020.

14. SEAC in its meeting held on Dt: 02.12.2020 recommended for considering amendment of environmental clearance granted earlier for enhancement of built up area from 28,278.31 m² to 29021.73 m² after receipt of detailed information sought by the sub-committee of SEAC.

15. Now the project proponent has furnished compliances as desired by the committee vide letter nil dated 14.12.2020 as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	The plan layout of plantation to meet the norms of green coverage i.e., not less than 1360m ² as specified in EC and an undertaking in form of a legal affidavit to execute it within 3 months' time is to be submitted.	An undertaking in form of a legal affidavit to execute it within 3 months' time has been submitted. Annexure-I	Compiled
(ii)	Details of solar system to be used in the project	The project proponent has ensured to implement 30kw solar system in the project	The project proponent has ensured to implement 30kw solar system in the project.

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(iii)	Detail water balance (both for monsoon and non-monsoon period)	Detail water balance. Copy attached-II	water balance (both for monsoon and non-monsoon period) has not been submitted.
(iv)	Details water harvesting capacity & re-charging details while taking into consideration the highest rainfall in that area	Details water harvesting capacity & re-charging details Copy attached-III	Compiled
(v)	To submit the details of parking area and in terms of ECS/equivalent two wheelers with respect to hotel occupancy as well floating population from commercial establishment	Details of parking area. Copy attached-IV	Compiled
(vi)	Environmental clearance condition compliance wherever not complied within a definite time frame through an undertaking	Self-undertaking copy attached as annexure-V for Environment clearance condition compliance six monthly yearly twice.	Compiled

Considering the information / documents furnished by the proponent, the SEAC recommended for amendment of Environmental clearance for revised built up area with following additional conditions.

- i) The proponent shall meet the norms of green coverage i.e., not less than 1360m² as specified in EC within 3 months' time as per undertaking furnished.
- ii) The proponent shall provide solar system of adequate capacity as per undertaking furnished.
- iii) The proponent shall provide water harvesting pit / recharge pit of adequate numbers taking into consideration the highest rainfall in that area.
- iv) The proponent shall provide parking area in terms of ECS / equivalent two wheelers for hotel occupancy as well as floating population from commercial establishment.
- v) The proponent shall comply the Environmental clearance conditions wherever not complied within a definite time period as per undertaking submitted.
- vi) Compliance to above conditions shall be verified on completion of the project by SEAC for which the proponent has to informed.

B. PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR KAKUDI AND KISHORIPAL SAND MINES OVER AN AREA 41.885 HA. IN VILLAGE-KAKUDI AND KISHORIPAL, UNDER TAHASIL-TALCHER, DIST-ANGUL OF M/S. MAHANADI COALFIELDS LIMITED (MCL) – EC

1. This is a proposal for Environmental Clearance for Kakudi and Kishoripal Sand Mines over an area 41.885 Ha. in village-Kakudi and Kishoripal, under Tahasil-Talcher, Dist-Angul of M/s. Mahanadi Coalfields Limited (MCL).
2. Kakudi/ Kishoripal Sand Mine is an existing sand mine project located in the river bed of Brahmani at village Kakudi and Kishoripal, Angul district, Odisha. The sand from this mine was mined between 1991-92 to 2003-04. This sand mine has leasehold area of 41.885 Ha & existing annual production capacity of 0.25 Million M3 per annum.

3. TOR granted from MoEF & CC, New Delhi vide No.J-11015/33/2015-IA.II(M) on 17.04.2015
4. The sand mining lease had been granted by Govt. of Odisha from 14.11.1990 to 14.11.2010, afterwards it was extended upto 31.03.2020 and now it has been further extended upto 13.11.2040.
5. Mining Plan had been approved by Ministry of Coal vide letter no.34012/(4)/2011-CPAM, dt: 21.08.2013.
6. The sand from this mine is required for stabilization purpose at one operating mine i.e. Nandira Colliery and three discontinued mines viz. Deulbera, Handidhua and Talcher collieries.
7. As per the directives of DGMS, stabilization to be done at identified underground workings of Deulbera & Handidhua Colliery at the earliest for ensuring the safety of Talcher town as a whole.
8. The mining lease area is located in Village - Kakudi and Kishoripal in the Tahasil of Talcher, Dist. Angul, Odisha bearing Plot No. 949(P), 948(P) & 947(P), Khata No.70 in village Kakudi and Plot No.927(P) & 928(P) , Khata No. 120 in village Kishoripal. NH-149 passes through Talcher town at a distance of about 2.5 km & connects to NH-55.Talcher railway station on branch line of East Coast Railway at a distance of about 5.5 km.
9. The total Mining Lease Area of the project is 41.885 Ha, out of which only 19.07 Ha will be used for mining, rest of the area will left for protection and sand barrier. The annual production of the project is 0.25Mm³/year. Geological Reserve is 0.846Mm³. And Mineable Reserve is 0.35 Mm³. Life of mine is 20 years.
10. Mining will be carried out in Strip Mining by Mechanical winning of sand by hydraulic excavator (Back-hoe shovel) loading onto tipping truck & transport. For transport of sand to mines, temporary roads / cause ways have been envisaged inside the river bed. A 50m sand barrier against river bank will be left un-mined for protection of the bank.
11. Baseline data generation was during Nov'15 to Feb'16.
12. Public Hearing conducted by OSPCB on Dt: 20.12.2016.
13. Water Requirement – 102.93KLD of water shall be required for domestic and mining activities. Treated water from Deulbera/ Handidhua mines will be used for dust suppression. Wastewater generated from transportation vehicles will be treated in ETP of nearby adjacent mines and the estimated quantity of wastewater generation is 53.22 KLD.
14. Employment Potential: Total number of employee will be around 92 which includes skilled, semi-skilled & unskilled category in the mine.
15. The project cost is ` 747.74 lakhs. Funds for Environment Management : ` 22.0 Lakhs (Capital)
16. The Environment consultant **M/s Central Mine Planning & Design Institute Ltd., Ranchi – 834 031, Jharkhand** along with the proponent have made a detailed presentation on the proposal before the Committee.
17. The SEAC in its meeting held on Dt: 11.09.2020 decided to take decision on the proposal after receipt of the following information / documents from the proponent followed by a site visit of SEAC Sub-Committee.

18. The project proponent has furnished compliances as desired by the committee and same has been verified as follows:

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(i)	One season fresh baseline data to be submitted as the data so collected is more than 3 years old	<p>Reports of recent months (March, June, July & August'2020) are enclosed as Annexure-I for kind reference. During April & May'2020, Air quality could not measure due to COVID-19 pandemic. Data has been submitted.</p> <p>It is our invocation to consider the routine environment monitoring data as baseline report and kindly exempt the project for generating a fresh baseline data, while considering the urgent and immediate requirement of sand from this mine vide their letter dated 13.10.2020.</p>	One season fresh baseline data has not been submitted. March, June, July & August'2020 data had been submitted.
(ii)	Mitigation measures to reduce fluoride content in surface water and ground water	<p>MCL is monitoring surface water and ground water quality throughout Talcher Coalfields. And it is observed that none of the sample has fluoride content excess than permissible/acceptable limit. Latest reports of nearby Surface Water & Ground Water sources are enclosed an Annexure-II for ready reference.</p> <p>Moreover, Kakudi & Kishoripal mine being a sand mining project, the contamination of any fluoride in the ground/surface due to sand mining does not arise.</p>	Water quality reports on Water & Ground Water sources are enclosed which shows Fluoride content < 0.3 mg/L.
(iii)	Minutes of public hearing to be submitted	Public Hearing proceedings along with Attendance sheet has already been submitted in Final EIA/EMP report vide Annexure-VI. However, a copy of the same is enclosed as Annexure-III for your kind reference.	Compiled

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
(iv)	Details of CSR & CER activities covered under proposed sand quarry	Details of CSR & CER activities covered under K&K sand mine is enclosed as Annexure-IV	Compiled
(v)	Details of plantation to be done alongside haulage road and river embankment and details of planation done in last ten years year wise with survival rate and the plants/trees available at present with location, type and age	The project has committed to take up gap/avenue plantation all along sand transportation road and block plantation at periphery of the mine, where free space available. Detail of proposal is given in Annexure-V , Previous plantations details in compliance report and in Annexure VI	Compiled in form of maps.
(vi)	Location of sampling points undertaken to be shown in map	A map showing location of sampling points is enclosed as Annexure-VII	Compiled
(vii)	Certificate from concerned Tahasildar about the geo coordinates and distance of the Bridge from the boundary of the lease area and other mines located within 500 meter from the periphery of the lease boundary	Tahasildar, Talcher vide Letter No.4261/Dtd:12.10.2020 has certified. Annexure-VIII	There is no bridge and other mines located within 500 meter from the periphery of the lease boundary. Distance of nearby villages had been submitted.
(viii)	Techno economic feasibility study for sand transportation in slurry form through pipes be made and submitted as a long term measure to avoid air pollution due to trucks, dumpers etc. movements. The possibility of slurry transportation to a common point may also be studied so that users may carry further by dumpers	There is no scope of conducting techno economic feasibility study.	-
(ix)	Any bridge or structure near to the sand mining area. If so, details to be given	No bridge or any other structure is located near to the sand mining area. Certificate in this regard obtained from Tahsildar, Talcher is enclosed as Annexure-VIII .	Compiled
(x)	Any electric HT line inside and within 500 meter of lease area if existing be indicated	No electric HT line is located inside or within 500 meter of leasehold area of the mine	Compiled
(xi)	Operation time/movement time of vehicles carrying sand and empty	Production capacity of the mine - 0.25 Mm ³ /day Effective	Compiled

Sl. No.	Information Sought by SEAC	Compliance furnished by the proponent	Views of the SEAC
	vehicles including types of vehicles , no. of vehicles to be engaged and the frequency of movements be submitted	working days per annum (Excluding monsoon period) - 175 days Quantity required per day - 1430 m3/day (Approx.)	
(xii)	Traffic study and management at haulage road, roads passing through villages and junction of public road (20% as stated by the proponent including internal roads of MCL with decongestion plans and measures through an expert of repute	Traffic study has been done by CMPDI and the details are already given in Mining Plan (Approved by Ministry of Coal) and EIA/EMP report. A copy of the same is enclosed as Annexure-IX .	Compiled
(xiii)	Distance of lease boundary from nearby habitation duly certified by the Tahasildar	Tahasilar, Talcher vide Letter No.4261/ Dtd: 12.10.2020 has authenticated the details. Copy is enclosed as Annexure-VIII. A copy of Mining Plan showing the portion left for protection of Kakudi village & 50m sand barrier are enclosed as Annexure-X	Compiled

19. The SEAC in its meeting held on Dt: 11.09.2020 decided decided to take decision on the proposal after a detailed site visit by the Sub-Committee of SEAC.

20. The sub-Committee of SEAC visited the project site on dated 19.11.2020 and following observations and recommendations were made:

- a) There is no embankment and the river bank has irregularly eroded along a stretch of about 740 meters alongside the stretched sand bed. No plantation is found over 100 meters width just from the bank.

For protection of the bank, it is recommended that the entire bank of about 740 meters stretch is stone patched to protect the river bank from erosion in consultation and on advice of the domain expert with due permission of Water Resources Department, Govt. of Odisha. This must be completed within a month or two for which they need to submit a legal affidavit.

Systematic and organized plantation must be done alongside the same stretch to cover the gap laterally between the stone patching and the plants / trees available in consultation with the local state forest authority with the recommended species by the later.

A ramp with WBM materials in consultation with the Civil Engineers for plying of vehicles (to & fro) from the sand bed to the top of the river bank and vice-versa is required to be constructed.

- b) Besides 50 mtrs of sand barrier, safety zone must be left between the river bank and the mining area as per the available guideline to this effect.

- c) There is a gap (inclined) of about 500 meters from the river bank to reach the public road (R&B/RD) of Govt of Odisha for which a strong two lane WBM road to be constructed for plying of loaded / empty sand carrying vehicles like Hywa etc.
- d) This public single road is about 2.5 km long through which the sand vehicles will travel to reach NH-149 that passes through Talcher town and connected to NH-55. Along since this road, there exists few habitations / shops etc. All safety measures need to be taken to avoid any accident while vehicles plying.

Besides, the following action has to be taken by MCL:

- (i) They need to take permission from the authority of the road to use the same for this purpose and they undertake to maintain the road perpetually till they use as per the advice of the authority concerned in form of a legal affidavit.
 - (ii) They will make plantation along both sides of this road of about 2.5 KM in vacant patches of desired species in consultation with the local forest authority of Govt. of Odisha.
- e) The major part of the about single road of about 2.5 KM will be used by MCL for this purpose temporarily as stated by them during the visit by their officials present since they will be constructing a separate haulage road of about 1.8 km dedicatedly for this purpose and MCL representatives present showed the proposed haulage road to the sub-committee.

It is recommended that haulage road must be two laned and either concrete /WBM road in consultation with the experts and plantation of required species and number must be made on both sides of the haulage road in consultation with the local forest authority.

The village "Kishoripal" will also be around 500 mtrs away from the proposed haulage road and all safety measures need /must be taken to avoid any kind of accident.

The land for the proposed road, if does not belong to MCL, is to be acquisitioned by them as per the laid down rules.

After detailed discussion, the SEAC decided to take decision on the proposal after the proponent submit the compliance to the observations of the sub-committee of SEAC during site visit and submission of one season fresh baseline data at the earliest.

SRI B.P. SINGH
CHAIRMAN, SEAC

(DR.) D. SWAIN
MEMBER, SEAC

ER. K.R. ACHARYA
MEMBER, SEAC

SRI. J. K. MOHAPATRA
MEMBER, SEAC

PROF.(DR.) B.K. SATPATHY
MEMBER, SEAC

APPROVED

CHAIRMAN, SEAC