

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 14th OCTOBER, 2020**

The SEAC met on 14th October, 2020 at 11:00 AM through video conferencing in Google Meet 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. Prof (Dr.) H. B. Sahu | - | Member |
| 3. Dr. D. Swain | - | Member |
| 4. Prof. (Dr.) P.K. Mohanty | - | Member |
| 5. Sri. J. K. Mahapatra | - | Member |
| 6. Sri. K. R. Acharya | - | Member |
| 7. Prof.(Dr.) B.K. Satpathy | - | Member |
| 8. Dr. Sailabala Padhi | - | Member |
| 9. Dr. K.C.S Panigrahi | - | Member |

The agenda-wise proceedings and recommendations of the committee are detailed below.

ITEM NO. 01

PROPOSAL FOR ENVIRONMENTAL CLEARANCE OF M/S HINDUSTAN MINERAL INDUSTRIES FOR KANTRABALI DECORATIVE STONE MINES OVER AN AREA OF 7.42 ACRES OR 3.003 HA. AT VILLAGE - KANTRABALI, TAHASIL - MUNIGUDA, DISTRICT - RAYAGADA OF SRI. HEMANTA KUMAR ROUT - EC

1. This is a proposal for Environmental Clearance of of M/s Hindustan Mineral Industries for Kantrabali Decorative Stone Mines over an area of 7.42 acres or 3.003 Ha. at village - Kantrabali, Tahasil - Muniguda, District - Rayagada of Sri. Hemanta Kumar Rout.
2. The project falls under Category "B", Project or Activity 1 (a), B2 (New Mines) Lease area <5.0 Ha (Minor Minerals) as per schedule of EIA Notification dated 14th Sep, 2006, as amended from time to time.
3. The Kantarabali Decorative mining lease area for mining of decorative stone (garnetiferrous Granite Gneiss) over an area of 3.003 Ha or 7.42 Acres was granted by the Department of Steel & Mines, Government of Odisha vide Letter No.7602/S&M, Bhubaneswar dated 04.10.2019 for a period of 30(thirty) years in favour of M/s Hindustan Minerals Industries, Sole Prop: Sri Hemanta Kumar Rout, Plot No.613/4132,Punama Gate, Old Town,Bhubaneswar-751002.
4. The Mining Plan along with the PMCP was approved by Joint Director of Mines, Director of Mines, Odisha, Bhubaneswar vide Letter No.MXXII-(a) 5/2019/5085/DM on dated 23.07.2020 for a period of five year
5. The applied mining lease area of mining lease area is a part of the area covered in the Survey of India Toposheet no.E44F10 & E44F6 and is bounded by Latitude: 19° 39' 38.72" N to 19° 39' 51.20" N and Longitude-83° 32' 41.30"E to 83° 32' 53.10"E. The entire ML area bearing Plot No.643/P, Khata No.114 is a hilly waste land under the kissam "Patharbani" and the tenant is 'Abada Ajogya Anabadi' of Govt.of Odisha. The lease area is accessible from Muniguda at a distance of about 10Km by metalled road towards south. The nearest State Highway is SH-5 is 4.0km and nearest railway station is at Muniguda, located at a distance of 7.0 km. Village Kantarabali is at a distance of 1.0km from to the

mining lease area. Village Bad Agula is at a distance of 2Km from the ML area where all infrastructure facilities like hospital, school, bus service, market is available. Bhubaneswar airport is at a distance of 246 km from the lease area. Nearest Reserve forest is Nialai is 2.5km. Nearest River is Bansadhara at 1.5km.

6. The geological reserves in the area are 178760cum (@ 40% recoveries) which includes 66100cum (proved), 58120 cum (probable) & 54540cum (possible) reserves respectively for decorative stone. The mineable reserves in the area are estimated to be 94180cum (@ 40% recoveries) which includes 50320cum (proved), 43860cum (probable) reserves respectively for decorative stone.
7. The lessee has planned to mine decorative stone by opencast semi mechanized method with the deployment of machines like L/D bore machines, jack hammer drill, compressor, hydraulic excavators & tippers. The major activities of mining will include removal of waste material, block cutting/splitting, dressing, loading & transportation. Decorative stone will be produced in the form of blocks/khanda stone from 2200cum in the first year with gradual increment upto 2620cum in the fifth year of the current plan period. However, the proposed rate of production will be 3000cum per annum of saleable decorative stone after the quarry is fully developed.
8. At the end of the conceptual plan period, it is estimated to produce/generate a total ROM of 187500cum, waste 75000cum, non saleable stone 37500cum & decorative stone 75000cum.
9. **Green Belt** : During the plan period, about 200saplings of local species (Mango, Neem, Mahaneem, Amla, Bahada, Jamun, etc) will be planted over an area of 0.751 Ha in 7.5m wide safety zone along the lease boundary.
10. **Water Requirement**: Total water requirement for the project is estimated to be 5 KLD out of which 2 KLD will be required for drinking and domestic purpose, 1.5 KLD for dust suppression and 1.5 KLD for plantation purpose. Source of domestic water will be tube well.
11. **Employment Potential**: The mining activity will generate employment for 26nos of personnel, skilled 7nos, semiskilled 11nos, unskilled 4nos & 4nos management staffs).
12. The project cost is ₹ 150 lakhs and cost of EMP is Rs.350000.
13. The Environment consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** along with the proponent has made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant, the SEAC decided to take decision on the proposal after receipt of the following information / documents from the proponent.

- (i) Detailed composition of waste generated and top soil.
- (ii) Details of Haulage road construction and maintenance.
- (iii) Details of waste management.
- (iv) Details of no. of vehicles to be used and its operation time.
- (v) Details of silt management in monsoon period.
- (vi) Layout showing location of rain harvesting recharging pits and quantity to be harvested.
- (vii) Layout showing garland drains and settling pond design.
- (viii) Details of type of land use in north east side, cropping pattern of the area, types of land.

- (ix) Map showing lease area and dams under construction.
- (x) Periodically testing of water accumulated in lease area and surface runoff.
- (xi) Increase in no. of tree plantation for dense safety belt.
- (xii) Certificate from mining officer about details of other mines located within 500 meter periphery of the mine.
- (xiii) Copy of lease deed issued by Steel and Mines Department, Govt. of Odisha.
- (xiv) The road to which and where the haulage road intersects.
- (xv) Any plan for (ZLD) or discharge is there and if so, where it will be discharged.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR SILPAPURI SAND BED MINES ON RIVER KATHAJODI OVER AN AREA OF 5.06 HA. /12.50AC. IN VILLAGE - UNIT-39, SILPAPURI, TAHASIL - CUTTACK SADAR, DISTRICT - CUTTACK OF TAHASILDAR CUTTACK SADAR - TOR

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. As per EIA Notification dated 14.09.06 and its subsequent amendments S.O.141 (E) on dated 15.1.2016, the project falls under, Category "B1".
3. The proposed Silpapuri Sand Bed Mines project is for river bed sand mining on Kathajodi River at village Unit-39, Silpapuri under Cuttack Sadar Tahasil of Cuttack District, Odisha, over an area of 5.06Ha or 12.50Acres.
4. The Quarry lease has been proposed to be granted by the Tahasildar, Cuttack Sadar to the applicant (successful bidder) for minor mineral (River Sand) for five years. As per the Director of Geology, Odisha, the mining plan has been approved by the Deputy Director of Geology, Cuttack, Odisha vide memo no.3158/DG on dated 21.05.2020.
5. The lease area is located in survey of India toposheet no (F45T15) and bounded between the latitudes of 20°26'03.01" N to 20°26'13.0"N and longitudes of 85°53'55.5" E to 85°54'04.05"E and is in Khata No.-327, Plot No. - 685, Kisam: Nadi Nearest road is Nayabazar –Biribati Road and Cuttack-Paradip road which is located at a distance of 0.8km & 3Km from the lease area. The site is well connected to NH-5 at a distance of 1.7Km. Nearest railway station is Cuttack railway Station which is located at distance of 3.5 Km from the lease area. Nearest airport is Bhubaneswar airport at a distance of 20Km from the mining lease area. The area is located at a distance of 2 Km from the district headquarters Cuttack. Nandankanan zoological Park is at 13km. Nearest Densely Populated area (Silpapuri) – 2km.
6. The Geological Reserve is 394570cum and Mineable Reserve is 374993cum. Total production within plan period is 225000cum and 45000cum per annum. Opencast manual method will be adopted for sand mining. Excavation & loading of sand into the trucks/tractors will be done by manual means.
7. Water Requirement – Water requirement for the project will be 3 KLD. For drinking & domestic purpose water requirement will be 2 KLD, water requirement for Green belt development and dust suppression will be 1 KLD. Ground water will be used for drinking and domestic purpose whereas surface water will be used for green belt development

- (i) Core drilling permeability test through MECL, Nagpur or any other competent bodies.
- (ii) Selection of Core sample study for porosity / permeability test to ascertain ground water flow & direction through competent organization.
- 16) During 2002 -03 to 2007-08 (6years) the production figure has exceeded 0.1 MTPA for which Deputy Directorate of Mines, Govt. of Odisha has raised a demand note of ₹ 77,52,97,589 /- vide office letter no. 568/Mines dated 11.04.2018. as per judgment of Hon'ble Supreme Court of India. The lessee filed a revision application in the revision authority Ministry of Mines, New Delhi vide. Case no. 22/(43)/2018/RC-I. The revision authority considered the case and passed an order "The Impugned order" be stayed till the next hearing vide order on 10.05.2018. This Environmental Clearance is to be issued without prejudice to the case filed before Revisional Authority (RA), Ministry of Mines, New Delhi.

B. STANDARD CONDITIONS: (AS MINISTRY'S O.M NO 22-34/2018-IA.III DATED 8.01.2019 &16.01.2020)

Statutory compliance

- 17) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- 18) The Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India &Ors before commencing the mining operations
- 19) The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- 20) This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- 21) This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- 22) Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.
- 23) The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.


Nodal Officer, SEAC

ITEM NO. 03

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR UTTAMAPUR SAND BED MINES ON RIVER KUAKHAI OVER AN AREA OF 5.67 HA. /14 AC. IN VILLAGE - UTTAMAPUR, TAHASIL - CUTTACK SADAR, DISTRICT - CUTTACK OF TAHASILDAR CUTTACK SADAR - TOR

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. As per EIA Notification dated 14.09.06 and its subsequent amendments S.O.141 (E) on dated 15.1.2016, the project falls under, Category "B1".
3. The proposed Uttamapur Sand Bed Mines project is for river bed sand mining on Kuakhai River at village Uttamapur under Cuttack Sadar Tahasil of Cuttack District, Odisha, over an area of 5.67Ha or 14Acres.
4. The Quarry lease has been proposed to be granted by the Tahasildar, Cuttack Sadar to the applicant (successful bidder) for minor mineral (River Sand) for five years. As per the Director of Geology, Odisha, the mining plan has been approved by the Deputy Director of Geology, Cuttack, Odisha vide memo no. 3168/DG on dated 21.05.2020.
5. The lease area is located in survey of India toposheet no. 73 H/3 and bounded between the latitudes of 20°25'31.99"N to 20°25'42.35"N and longitudes of 85°51'53.68"E to 85°52'03.42"E in Khata No.-255, Plot No - 861, Kisam - Nadi. Nearest road is Balikuda road which is located at a distance of 1.5Km from the lease area. The site is well connected to NH-5 and NH 45 at a distance of 1Km from the lease area. Nearest railway station is Gopalpur-Balikuda railway Station and Cuttack Railway Station which are located at distance of 1.5 Km and 4 Km respectively from the lease area. Nearest airport is Bhubaneswar airport at a distance of 15Km from the mining lease area. Nandankanan zoological Park is at 5km. Nearest Densely Populated area Gopalpur – 2km.
6. The Geological Reserve is 226628cum and Mineable Reserve is 16672cum. Total production within plan period is 100000cum and 20000cum per annum. Opencast manual method will be adopted for sand mining. Excavation & loading of sand into the trucks/tractors will be done by manual means.
7. Water Requirement – Water requirement for the project will be 3 KLD. For drinking & domestic purpose water requirement will be 2 KLD, water requirement for Green belt development and dust suppression will be 1 KLD. Ground water will be used for drinking and domestic purpose whereas surface water will be used for green belt development and dust suppression.
8. Power Requirement - No use of electric power as the operation will be done in day time. However solar lights will be used for day to day living purposes.
9. Employment Potential: Total number of employee will be around 20 which includes skilled, semi-skilled & unskilled category in the mine.
10. The project cost is 10 lakhs.
11. The Environment consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** along with the proponent has made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar**, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per **Annexure – A** for conducting detailed EIA study.

- (i) Distance of all nearby mines in Topo map and Google map.
- (ii) Certificate from the 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.
- (iii) Details of river embankment / bank protection management including its distance from the lease boundary.
- (iv) Approach road for mineral transportation to be provided i.e. from lease boundary to the haulage road. Details of haulage road with length and width to be provided.
- (v) Distance between haulage road and nearby village road to be indicated.
- (vi) Responsibilities of perpetual perennial maintenance of haulage road to be specified including the village road if used for the purpose of transportation of sand including the public road / village road till it intersect SH / NH etc.
- (vii) Mitigation measures to be taken to ensure not to disturb free flow of river.
- (viii) Traffic study and management in reference to area occupied by sensitive facilities (educational institutions, NH-5, bus stop nearby) through an expert of repute to be submitted.
- (ix) Operation time i.e. time for movement of empty and loaded vehicles to be mentioned.
- (x) Any electric HT line within 500 meters of the lease area if existing to be indicated.
- (xi) Distance of lease boundary from nearby habitation duly certified by the Tahasildar.
- (xii) Certified copy of half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Govt. of India Regional Office, Bhubaneswar.
- (xiii) NOC from concerned competent authority for usage of road for transportation of sand including use of village road.
- (xiv) Details of safety zone w.r.t lease area and river bank / embankment.

ITEM NO. 04

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR BRAHMAPUR SAND BED MINES ON RIVER KATHAJODI OVER AN AREA OF 5.26 HA. /13.0 AC. IN VILLAGE - BRAHMAPUR, TAHASIL - CUTTACK SADAR, DISTRICT – CUTTACK OF TAHASILDAR CUTTACK SADAR – TOR

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. As per EIA Notification dated 14.09.06 and its subsequent amendments S.O.141 (E) on dated 15.1.2016, the project falls under, Category "B1".
3. The proposed Brahmapur Sand Bed Mines project is for river bed sand mining on

- Kathajodi River at village Brahmapur under Cuttack Sadar Tahasil of Cuttack District, Odisha, over an area of 5.26Ha or 13Acres.
4. The Quarry lease has been proposed to be granted by the Tahasildar, Cuttack Sadar to the applicant (successful bidder) for minor mineral (River Sand) for five years. As per the Director of Geology, Odisha, the mining plan has been approved by the Deputy Director of Geology, Cuttack, Odisha vide memo no. 3160/DG on dated 21.05.2020.
 5. The lease area is located in survey of India toposheet no 73 H/15 and bounded between the latitudes of 20°25'37.06" N to 20°25'46.04"N and longitudes of 85°54'34.81" E to 85°54'45.46"E in Khata No.-677, Plot No - 1, Kisam - Nadi. Nearest road is Cuttack-Paradip road which is located at a distance of 2.6 Km from the lease area. The site is well connected to NH-5 at a distance of 2.8 Km & NH-42 at a distance of 10.31Km. Nearest Railway Station is Cuttack Railway Station located at a distance of 5Km towards North-West direction from the lease area. Nearest airport is Bhubaneswar Airport located at a distance of 22Km from the lease area. The area is located at a distance of 4 Km from the district headquarters Cuttack. Nandankanan zoological Park is at 12km. High tension line within the lease area.
 6. The Geological Reserve is 63132cum and Mineable Reserve is 58329cum. The Mining will be done with semi mechanized method for excavation & loading into trucks/ tractors for transport to the users' destination. The quarry will be worked for five years. The average proposed rate of production is 7000 Cu. m per annum (in five years, total production will be 35000Cu.m). Excavation & loading of sand into the trucks/tractors will be done by manual means. Total lease area is 5.26Ha, out of which 4.86Ha areas will be use for excavation of sand within the plan period and 0.40Ha areas dedicated for safety zone/plantation purpose.
 7. Water Requirement – Water requirement for the project will be 3 KLD. For drinking & domestic purpose water requirement will be 2 KLD, water requirement for Green belt development and dust suppression will be 1 KLD. Ground water will be used for drinking and domestic purpose whereas surface water will be used for green belt development and dust suppression.
 8. Power Requirement - No use of electric power as the operation will be done in day time. However solar lights will be used for day to day living purposes.
 9. Employment Potential: Total number of employee will be around 11 which includes skilled, semi-skilled & unskilled category in the mine.
 10. The project cost is 10 lakhs.
 11. The Environment consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** along with the proponent has made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar**, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per **Annexure – A** for conducting detailed EIA study.

- (i) Distance of all nearby mines in Topomap and Google map.
- (ii) Certificate from the 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.

- (iii) Details of river embankment / bank protection management including its distance from the lease boundary.
- (iv) Approach road for mineral transportation to be provided i.e. from lease boundary to the haulage road. Details of haulage road with length and width to be provided.
- (v) Distance between haulage road and nearby village road to be indicated.
- (vi) Responsibilities of perpetual perennial maintenance of haulage road to be specified including the village road if used for the purpose of transportation of sand including the public road / village road till it intersect SH / NH etc..
- (vii) Mitigation measures to be taken to ensure not to disturb free flow of river.
- (viii) Traffic study and management in reference to area occupied by sensitive facilities (educational institutions, NH-5, bus stop nearby) through an expert of repute to be submitted.
- (ix) Operation time i.e. time for movement of empty and loaded vehicles to be mentioned.
- (x) Any electric HT line within 500 meters of the lease area if existing to be indicated.
- (xi) Distance of lease boundary from nearby habitation duly certified by the Tahasildar.
- (xii) Certified copy of half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar.
- (xiii) NOC from concerned competent authority for usage of road for transportation of sand including use of village road.
- (xiv) Undertaking by project proponent towards safety of people and non-mineable zone as high tension line within lease area.
- (xv) Details of safety zone w.r.t lease area and river bank / embankment.

ITEM NO. 05

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR PRATAPNAGARI SAND BED MINES ON RIVER KUAKHAI OVER AN AREA OF 5.26 HA. /13AC. IN VILLAGE - PRATAPNAGARI, TAHASIL - CUTTACK SADAR, DISTRICT - CUTTACK OF TAHASILDAR CUTTACK SADAR – TOR

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. As per EIA Notification dated 14.09.06 and its subsequent amendments S.O.141 (E) on dated 15.1.2016, the project falls under, Category "B1".
3. The proposed Pratapnagari Sand Bed Mines project is for river bed sand mining on Kuakhai River at village Pratapnagari under Cuttack Sadar Tahasil of Cuttack District, Odisha, over an area of 5.26Ha or 13Acres.
4. The Quarry Pratapnagari Sand Bed Mines lease has been proposed to be granted by the Tahasildar, Cuttack Sadar to the applicant (successful bidder) for minor mineral (River Sand) for five years. As per the Director of Geology, Odisha, the mining plan has been approved by the Deputy Director of Geology, Cuttack, Odisha vide memo no. 3166/DG on dated 21.05.2020.

5. The lease area is located in survey of India toposheet no 73 H/3 and bounded between the latitudes of 20°23'40.87" N to 20°23'53.84"N and longitudes of 85°52'09.60" E to 85°52'19.81"E in Khata No.- 1030, Plot No - 1248, Kisam - Nadi. The site is well connected to NH-5 at a distance of 1.2 Km. Nearest railway station is Baranga railway Station which is located at distance of 4.5 Km from the lease area. Nearest airport is Bhubaneswar airport which is located at distance of 18 Km from the lease area. The area is located at a distance of 9 Km from the district headquarters Cuttack. Nandankanan zoological Park is at 5km.
6. The Geological Reserve is 189396cum and Mineable Reserve is 137520cum. The Mining will be done with semi mechanized method for excavation & loading into trucks/ tractors for transport to the users' destination. The quarry will be worked for five years. The average proposed rate of production is 16500 Cu. m per annum (in five years, total production will be 82500Cu.m). Excavation & loading of sand into the trucks/tractors will be done by manual means. Total lease area is 5.26Ha, out of which 3.82Ha areas will be use for excavation of sand within the plan period and 0.68Ha areas dedicated for safety zone/plantation purpose.
7. Water Requirement – Water requirement for the project will be 3 KLD. For drinking & domestic purpose water requirement will be 2 KLD, water requirement for Green belt development and dust suppression will be 1 KLD. Ground water will be used for drinking and domestic purpose whereas surface water will be used for green belt development and dust suppression.
8. Power Requirement - No use of electric power as the operation will be done in day time. However solar lights will be used for day to day living purposes.
9. Employment Potential: Total number of employee will be around 30 which includes skilled, semi-skilled & unskilled category in the mine.
10. The project cost is 10 lakhs.
11. The Environment consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** along with the proponent has made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar**, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per **Annexure – A** for conducting detailed EIA study.

- (i) Distance of all nearby mines in Topomap and Google map.
- (ii) Certificate from the 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.
- (iii) Details of river embankment / bank protection management including it's distance from the lease boundary.
- (iv) Approach road for mineral transportation to be provided i.e. from lease boundary to the haulage road. Details of haulage road with length and width to be provided.
- (v) Distance between haulage road and nearby village road to be indicated.

- (vi) Responsibilities of perpetual perennial maintenance of haulage road to be specified including the village road if used for the purpose of transportation of sand including the public road / village road till it intersect SH / NH etc.
- (vii) Mitigation measures to be taken to ensure not to disturb free flow of river.
- (viii) Traffic study and management in reference to area occupied by sensitive facilities (educational institutions, NH-5, bus stop nearby) through an expert of repute to be submitted.
- (ix) Operation time i.e. time for movement of empty and loaded vehicles to be mentioned.
- (x) Any electric HT line within 500 meters of the lease area if existing to be indicated.
- (xi) Distance of lease boundary from nearby habitation duly certified by the Tahasildar.
- (xii) Certified copy of half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar.
- (xiii) NOC from concerned competent authority for usage of road for transportation of sand.
- (xiv) Details of safety zone w.r.t lease area and river bank / embankment.

ITEM NO. 06

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR SUBARNAPUR SAND BED MINES ON RIVER KATHAJODI OVER AN AREA OF 8.30 HA. /20.50AC. IN VILLAGE - SUBARNAPUR, TAHASIL - CUTTACK SADAR, DISTRICT - CUTTACK OF TAHASILDAR CUTTACK SADAR – TOR

1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. As per EIA Notification dated 14.09.06 and its subsequent amendments S.O.141 (E) on dated 15.1.2016, the project falls under, Category "B1".
3. The proposed Subarnapur Sand Bed Mines project is for river bed sand mining on Kathajodi River at village Subarnapur under Cuttack Sadar Tahasil of Cuttack District, Odisha, over an area of 8.30Ha or 20.50Acres.
4. The Quarry Subarnapur Sand Bed Mines lease has been proposed to be granted by the Tahasildar, Cuttack Sadar to the applicant (successful bidder) for minor mineral (River Sand) for five years. As per the Director of Geology, Odisha, the mining plan has been approved by the Deputy Director of Geology, Cuttack, Odisha vide memo no. 3154/DG on dated 21.05.2020.
5. The lease area is located in survey of India toposheet no 73 H/15 and bounded between the latitudes of 20°27'48.34 " N to 20°27'56.75"N and longitudes of 85°50'37.29"E to 85°50'52.69"E in Khata No.- 1, Plot No - 1, Kisam - Nadi. Nearest road is Cuttack-Paradip road which is located at a distance of 8.5Km from the lease area. The site is well connected to NH-5 at a distance of 3.5Km & NH-42 at a distance of 10.5Km. Nearest airport is Bhubaneswar airport at a distance of 20Km from the mining lease area. The area is located at a distance of 2 Km from the district head quarters Cuttack. Nandankanan zoological Park is at 10km.
6. The Geological Reserve is 132739cum and Mineable Reserve is 125005cum. The Mining will be done with semi mechanized method for excavation & loading into trucks/

- tractors for transport to the users' destination. The quarry will be worked for five years. The average proposed rate of production is 15000 Cu. m per annum (in five years, total production will be 75000Cu.m).Excavation & loading of sand into the trucks/tractors will be done by manual means. Total lease area is 8.30Ha, out of which 7.812Ha areas will be use for excavation of sand within the plan period and 0.488Ha areas dedicated for safety zone/plantation purpose.
7. Water Requirement – Water requirement for the project will be 3 KLD. For drinking & domestic purpose water requirement will be 2 KLD, water requirement for Green belt development and dust suppression will be 1 KLD. Ground water will be used for drinking and domestic purpose whereas surface water will be used for green belt development and dust suppression.
 8. Power Requirement - No use of electric power as the operation will be done in day time. However solar lights will be used for day to day living purposes.
 9. Employment Potential: Total number of employee will be around 25 which includes skilled, semi-skilled & unskilled category in the mine.
 10. The project cost is 10 lakhs.
 11. The Environment consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** along with the proponent has made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar**, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per **Annexure – A** for conducting detailed EIA study.

- (i) Distance of all nearby mines in Topomap and Google map.
- (ii) Certificate from the 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.
- (iii) Details of river embankment / bank protection management including it's distance from the lease boundary.
- (iv) Approach road for mineral transportation to be provided i.e. from lease boundary to the haulage road. Details of haulage road with length and width to be provided.
- (v) Distance between haulage road and nearby village road to be indicated.
- (vi) Responsibilities of perpetual perennial maintenance of haulage road to be specified including the village road if used for the purpose of transportation of sand including the public road / village road till it intersect SH / NH etc.
- (vii) Mitigation measures to be taken to ensure not to disturb free flow of river.
- (viii) Traffic study and management in reference to area occupied by sensitive facilities (educational institutions, NH-5, bus stop nearby) through an expert of repute to be submitted.
- (ix) Operation time i.e. time for movement of empty and loaded vehicles to be mentioned.
- (x) Any electric HT line within 500 meters of the lease area if existing to be indicated.
- (xi) Distance of lease boundary from nearby habitation duly certified by the Tahasildar.

- (xii) Certified copy of half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar.
- (xiii) NOC from concerned competent authority for usage of road for transportation of sand including use of village road.
- (xiv) Details of safety zone w.r.t lease area and river bank / embankment.

ITEM NO. 07

PROPOSAL OF ENVIRONMENTAL CLEARANCE FOR ARAKHAKUDA SAND BED MINES ON RIVER KUAKHAI OVER AN AREA OF 5.06 HA. /12.50AC. IN VILLAGE - ARAKHAKUDA, TAHASIL - CUTTACK SADAR, DISTRICT - CUTTACK OF TAHASILDAR CUTTACK SADAR – TOR

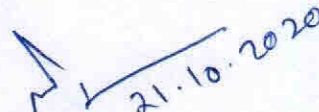
1. The proposal was considered by the committee to determine the "Terms of Reference (ToR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.
2. As per EIA Notification dated 14.09.06 and its subsequent amendments S.O.141 (E) on dated 15.1.2016, the project falls under, Category "B1".
3. The proposed Arakhakuda Sand Bed Mines project is for river bed sand mining on Kuakhai River at village Arakhakuda under Cuttack Sadar Tahasil of Cuttack District, Odisha, over an area of 5.06Ha or 12.50Acres.
4. The Quarry Arakhakuda Sand Bed Mines lease has been proposed to be granted by the Tahasildar, Cuttack Sadar to the applicant (successful bidder) for minor mineral (River Sand) for five years. As per the Director of Geology, Odisha, the mining plan has been approved by the Deputy Director of Geology, Cuttack, Odisha vide memo no. 3172/DG on dated 21.05.2020.
5. The lease area is located in survey of India toposheet no. (F45T15) and bounded between the latitudes of 20°22'43.92" N to 20°22'53.66"N and longitudes of 85°52'29.52" E to 85°52'42.87"E in Khata No.- 172, Plot No - 81, Kisam - Nadi. Nearest road is Baranga road which is located at a distance of 7.5Km from the lease area. The site is well connected to NH-5 at a distance of 1.3Km. Nearest railway station is Baranga railway Station which is located at distance of 5.2 Km from the lease area. Nearest airport is Bhubaneswar airport at a distance of 15Km from the mining lease area. Nandankanan zoological Park is at 5.7km.
6. The Geological Reserve is 50586cum and Mineable Reserve is 20840cum. The Mining will be done with semi mechanized method for excavation & loading into trucks/ tractors for transport to the users' destination. The quarry will be worked for five years. The average proposed rate of production is maximum 2500 Cu. m per annum (in five years, total production will be 12500Cu.m). Excavation & loading of sand into the trucks/tractors will be done by manual means. Total area of the lease area is 5.06Ha out of which 2.084Ha areas will be use for excavation of sand within the plan period and 2.976Ha areas dedicated for safety zone/plantation purpose.
7. Water Requirement – Water requirement for the project will be 3 KLD. For drinking & domestic purpose water requirement will be 2 KLD, water requirement for Green belt development and dust suppression will be 1 KLD. Ground water will be used for drinking and domestic purpose whereas surface water will be used for green belt development and dust suppression.

8. Power Requirement - No use of electric power as the operation will be done in day time. However solar lights will be used for day to day living purposes.
9. Employment Potential: Total number of employee will be around 05 which includes skilled, semi-skilled & unskilled category in the mine.
10. The project cost is 10 lakhs.
11. The Environment consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar** along with the proponent has made a presentation on the proposal before the Committee.

Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s Kalyani Laboratories (Pvt) Ltd. Pahala, Bhubaneswar**, the SEAC prescribed the following specific ToRs in addition to standard ToRs as per **Annexure – A** for conducting detailed EIA study.

- (i) Distance of all nearby mines in Topomap and Google map.
- (ii) Certificate from the 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.
- (iii) Details of river embankment / bank protection management including it's distance from the lease boundary.
- (iv) Approach road for mineral transportation to be provided i.e. from lease boundary to the haulage road. Details of haulage road with length and width to be provided.
- (v) Distance between haulage road and nearby village road to be indicated.
- (vi) Responsibilities of perpetual perennial maintenance of haulage road to be specified including the village road if used for the purpose of transportation of sand including the public road / village road till it intersect SH / NH etc.
- (vii) Mitigation measures to be taken to ensure not to disturb free flow of river.
- (viii) Traffic study and management in reference to area occupied by sensitive facilities (educational institutions, NH-5, bus stop nearby) through an expert of repute to be submitted.
- (ix) Operation time i.e. time for movement of empty and loaded vehicles to be mentioned.
- (x) Any electric HT line within 500 meters of the lease area if existing to be indicated.
- (xi) Distance of lease boundary from nearby habitation duly certified by the Tahasildar.
- (xii) Certified copy of half yearly condition wise compliance Report on Environmental Clearance conditions submitted to MoEF&CC, Regional Office, Bhubaneswar.
- (xiii) NOC from concerned competent authority for usage of road for transportation of sand including the use of village road.
- (xiv) Details of safety zone w.r.t lease area and river bank / embankment.

Secretary, SEAC


Chairman, SEAC

Proceedings of the SEAC meeting held on 14.10.2020


Nodal Officer, SEAC

TERMS OF REFERENCE (ToR) FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

A. STANDARD TOR FOR MINING PROJECT

1. The Environmental Clearance will not be operational till such time the Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors..
2. Department of Mining & Geology, State Government shall ensure that mining operation shall not commence till the entire compensation levied, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.
3. Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
4. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
5. All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
6. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
7. Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
8. Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
9. It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the proposed safeguard measures in each case should also be provided.
10. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the


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mine / lease period.

11. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
12. Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
13. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
14. Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
15. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
16. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
17. A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
18. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
19. A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
20. Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be

indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.

21. Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects failing under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
22. R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs/STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine (lease area) will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
23. One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season) ; December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
24. Air quality modelling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modelling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
25. The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
26. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.


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29. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater, Necessary data and documentation in this regard must be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter- alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
30. Details of any stream, seasonal or otherwise, passing through the tease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be.
31. Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and BGL. A schematic diagram may also be provided for the same.
32. A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
33. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
34. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
35. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

39. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
40. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
41. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
42. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
43. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
44. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
45. The activities and budget earmarked for Corporate Environmental Responsibility (CER) shall be as per MoEF&CC, Govt. of India O.M No 22-65/2017-IA. II (M) dated 01.05.2018 and the action plan on the activities proposed under CER shall be submitted at the time of appraisal of the project included in the EIA/EMP Report.
46. The Action Plan on the compliance of the recommendations of the CAG as per MoEF&CC, Govt. of India Circular No. J-11013/71/2016-IA.I (M), dated 25,10.2017 needs to be submitted at the time of appraisal of the project and included in the EIA/EMP Report.
47. Compliance of the MoEF&CC, Govt. of India Office Memorandum No. F: 3-50/2017-IA.III (Pt.), dated 30.05.2018 on the judgement of Hon'ble Supreme Court, dated the 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India needs to be submitted and included in the EIA/EMP Report.

B. Besides the above, the below mentioned general points are also to be followed:-

- a) All documents to be properly referenced with index and continuous page numbering.
- b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
- d) Where the documents provided are in a language other than English, an English translation should be provided.
- e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
- f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006- IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
- g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the


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TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.

- h) As per the circular no. J-11011/618/2010-IA.II (I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area,(ii) geological maps and sections and (iii) Sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

C. The prescribed TOR would be valid for a period of four years for submission of the EIA/EMP report after conducting public hearing.