

# STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR

2<sup>nd</sup> Floor, BELTRON Bhawan, Shastri Nagar, Patna – 800023.

---

Ref. No. - 213

Patna Dated: - 07/05/2024

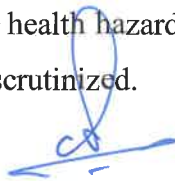
## MINUTES OF 38<sup>th</sup> MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR CONSTITUTED ON 12.08.2021

VENUE: SEIAA Office

DATE: 06<sup>th</sup> May, 2024.

### Minutes/Proceeding of the Meeting

- 1. Opening Remarks of the Chairman:** The Chairman and Members extended a warm welcome to each other and among participants of the meeting. Thereafter, the meeting was opened for the proceedings as per the agenda adopted for the meeting.
- 2. Confirmations of Minutes of 37<sup>th</sup> Meeting (37/2023) vide Ref. No.-172, dated:- 10.04.2024 of State Expert Appraisal Committee held on 06<sup>th</sup> April, 2024.** The State Expert Appraisal Committee, hereinafter referred to as SEAC, was informed that no representation has been received regarding projects considered in the meeting held on 06<sup>th</sup> April, 2024. The minutes of the said SEAC meeting was confirmed by the Committee.
- 3. Consideration of Proposals:** The SEAC considered the proposals received as per the agenda adopted for the 38<sup>th</sup> meeting (38/2024) vide Ref. No. - 199, dated- 03.05.2024. The key points of the deliberations held were as follows.
- 4. With regard to the proposals submitted for the Real-estate / apartment / Residential building projects, industry, Sand Mining project, etc. and various issues concerning the green belt area/greenery, public health hazards, and status of Waste Management, etc. were thoroughly discussed and scrutinized.**



## Consideration of Environmental Clearance Proposal

### AGENDA ITEM NO. 01

**Sand Mining Project on Sone River at Arwal Sone – 06 Balu Ghat, of District – Arwal, Area – 21.98 Ha, (File No. - SIA/1(a)/2088/2022), Online Proposal No.:- SIA/BR/MIN/438233/2023).**

Proponent:- M/s Banshidhar Construction Private Limited,

Consultant:- M/s Rian Enviro Private Limited.

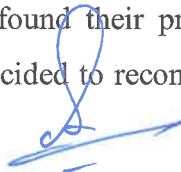
Application along with filled up 'Form - I 'and Pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 30<sup>th</sup> December, 2022 for obtaining Terms of Reference (ToR). SEIAA, Bihar issued System Generated ToR Vide SIA/1(a)/2088/2022, dated 11.01.2023 and public hearing for the proposed project was conducted by Bihar State Pollution Control Board on 20.06.2023. Final EIA report was submitted by Project Proponent in the prescribed format to SEIAA, Bihar on 18.08.2023 for obtaining Environmental Clearance (EC).

The sand ghat under the proposal has been mentioned in the District Survey Report (DSR) approved by the State Environment Impact Assessment Authority (SEIAA), Bihar vide letter no. 264, dated 23.05.2022.

Decision at earlier meeting dated – 25.08.2023 (Ref .No. 274 dated 29.08.2023) “the Committee observed that enough replenishment has not happened on this sand ghat. The project proponent intimated the committee that after leasing out of this ghat large scale mining has been done. In such a situation, the project proponent expressed his disinterest in obtaining the environmental clearance for operating this ghat in the present condition. Therefore, the committee decided to refer the matter to the Department of Mines and Geology, Govt. of Bihar for the comments”.

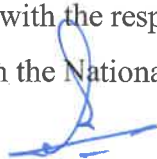
Reply received from Department of Mines and Geology, Govt. of Bihar vide letter no.1562 dated 01.05.2024 regarding availability of sand at the proposed sand ghat.

The Project Proponent along with their environmental consultant Rian Enviro Private Limited, made a presentation on the key parameters and salient features of the project. Based on the discussion, the Committee found their presentation and proposal satisfactory and acceptable, hence the Committee decided to recommend the proposed proposal for grant of



Environmental Clearance subject to the following additional conditions along with standard conditions mentioned in Annexure "A".

1. The proposed plantation consisting of mixture of indigenous and fast growing species of trees must be done and proper care must be taken. Plantation of a minimum of 5 feet tall plants must be done in the 1<sup>st</sup> year of lease period and properly maintained till the validity of Environmental Clearance and preserve the existing tree at the proposed site.
2. The Project Proponent shall execute and conduct measurable CER activities like facilities for drinking water supply, infrastructure creation, solar power, Rain Water Harvesting, Solid Waste Management Facilities, sanitation, essential furnitures for the local government schools and Anganwadi Kendra. A display board must be fixed for the information to the public. The Project Proponent has to intimate the concerned District Magistrate and the concerned district level officers of the concerned departments.
3. Under the Corporate Environment Responsibilities the modalities of all expenditure on skill development programme need to be done in consultation with and guidance of Bihar Skill Devolvment Mission, with intimation to the concerned District Magistrate, State Environment Impact Assessment Authority and Bihar State Pollution Control Board, Patna.
4. Project Proponent has to fix display board on each mining site mentioning thereupon various activities to be done under Environment Management Plan (EMP).
5. The project proponent shall limit the sand mining upto 3 meter (three meter) depth. Mining should be done by semi-mechanised method without using any heavy machine, preferably by manual excavation.
6. The Project Proponent must maintain existing ponds nearby, if any.
7. Proper care should to be taken during transportation of sand from the sand mining site. There should be a freeboard of atleast 3 inches from the body level of the vehicle, so that the sand doesn't get spilled over on the road and doesn't affect the air quality as well.
8. Proponent should submit high resolution satellite images with stereoscopic 3D view from the National Remote Sensing Center (NRSC), Hyderabad for the month of June and December of every year, along with the respective half-yearly compliance report in hard and soft copy (as received from the National Remote Sensing Center (NRSC)).



## **AGENDA ITEM NO. 02**

**Sand Mining Project on river Barnar at Jamui Block No - 05 Sand Ghat of Jamui district, Area – 42.60 Ha. (File No.:- SIA/1(a)/2272/2023). Online Proposal No.:- SIA/BR/MIN/445759/2023).**

Proponent: Shri Brahmdev Prasad

Consultant: - P & M Solution,

Application along with filled up 'Form - I 'and Pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 30<sup>th</sup> January, 2023 for obtaining Terms of Reference (ToR). SEIAA, Bihar issued System Generated ToR Vide SIA/1(a)/2272/2023, dated 02.02.2023 and public hearing for the proposed project was conducted by Bihar State Pollution Control Board on 26.06.2023. Final EIA report was submitted by Project Proponent in the prescribed format to SEIAA, Bihar on 26.10.2023 for obtaining Environmental Clearance (EC).

The sand ghat under the proposal has been mentioned in the District Survey Report (DSR) approved by the State Environment Impact Assessment Authority (SEIAA), Bihar vide letter no. 268, dated 23.05.2022.

Decision at earlier meeting dated – 06.01.2024 (Ref .No. 20 dated 10.01.2024) “the project proponent submitted a letter stating that due to short notice, he is unable to attend the said meeting. Therefore the committee deferred the proposal for the next meeting”.

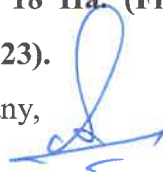
The Project Proponent along with their environmental consultant P & M Solution, made a presentation on the key parameters and salient features of the project. Based on the discussion, the Committee observed that during public consultation meeting local people in the area have raised Objection to this project during the public hearing.

The committee after discussion decided to keep the screening of proposal on hold and refer the matter to the Mines and Geology Dept. Govt. of Bihar for its opinion regarding the issues raised in the public consultation.

## **AGENDA ITEM NO. 03**

**Sand Mining Project on Gaya Morhar River at Block No. – 38 (Gaya Morhar – 25) Sand Ghat, of District- Gaya, Area- 18 Ha. (File No.- SIA/1(a)/2411/2023), Online Proposal No.:- SIA/BR/MIN/445945/2023).**

Proponent:-M/s Maalik Transport Company,



Consultant:- Cognizance Research India Private Limited,

Application along with filled up 'Form - I 'and Pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 26<sup>th</sup> May, 2023 for obtaining Terms of Reference (ToR). SEIAA, Bihar issued System Generated ToR Vide SIA/1(a)/2411/2023, dated 01.06.2023 and public hearing for the proposed project was conducted by Bihar State Pollution Control Board on 12.08.2023. Final EIA report was submitted by Project Proponent in the prescribed format to SEIAA, Bihar on 20.12.2023 for obtaining Environmental Clearance (EC).

The sand ghat under the proposal has been mentioned in the District Survey Report (DSR) approved by the State Environment Impact Assessment Authority (SEIAA), Bihar vide letter no. 258, dated 23.05.2022.

Decision at earlier meeting dated – 10.01.2024 (Ref .No. 25 dated 12.01.2024) is as under : “the committee after discussion decided to keep the screening of proposal on hold and refer the matter to the Mines & Geology Deptt. Govt. of Bihar for its opinion regarding the issue raised in the public consultation.”

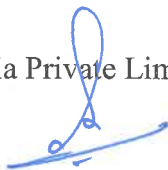
The Project Proponent was absent at the meeting. In compliance of earlier letter of SEIAA vide Ref. No. 78, dated 31.01.2024 no report has been received from Dept. of Mines & Geology, Govt. of Bihar. However a report has been received from the District Magistrate, Gaya, vide his letter no.1295 dated 26.04.2024 wherein it has been suggested not to allow mining in this sand ghat due to public opposition. The State Expert Appraisal Committee (SEAC), Bihar on the basis of google map found that sufficient sand deposition is available at the proposed sand ghat. In such a situation the Committee proposed the Dept. to consider the suggestion given by SEAC or else cancel the mining plan and Letter of Intent (LoI) issued by concerned Department / Authority and intimate to SEIAA/SEAC, Bihar for consideration.

**AGENDA ITEM NO. 04**

**Sand Mining Project on Gaya Morhar River at (Block-29, Gaya Morhar-16 Ghat) of District- Gaya Area – 17 Ha. (File No. - SIA/1(a)/2451/2023), Online Proposal No.:- SIA/BR/MIN/456553/2023).**

Proponent:-M/s Vinay Construction,

Consultant:- Cognizance Research India Private Limited,



Application along with filled up 'Form – I' and Pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 18<sup>th</sup> July, 2023 for obtaining Terms of Reference (ToR). SEIAA, Bihar issued System Generated ToR Vide SIA/1(a)/2451/2023, dated 19.07.2023 and public hearing for the proposed project was conducted by Bihar State Pollution Control Board on 20.10.2023. Final EIA report was submitted by Project Proponent in the prescribed format to SEIAA, Bihar on 11.01.2024 for obtaining Environmental Clearance (EC).

The sand ghat under the proposal has been mentioned in the District Survey Report (DSR) approved by the State Environment Impact Assessment Authority (SEIAA), Bihar vide letter no. 258, dated 23.05.2022.

Decision at earlier meeting dated – 17.02.2024 (Ref .No. 106 dated 27.02.2024) is as under : “Based on the discussion, the Committee observed that during public consultation meeting local people in the area have raised Objection to this project during the public hearing.”

In compliance of earlier letter of SEIAA vide Ref. No. 127, dated 06.03.2024 no report has been received from Dept. of Mines & Geology, Govt. of Bihar. However a report has been received from the District Magistrate, Gaya, vide his letter no.1295 dated 26.04.2024 wherein it has been suggested not to allow mining in this sand ghat due to public opposition. The State Expert Appraisal Committee (SEAC), Bihar on the basis of google map found that sufficient sand deposition is available at the proposed sand ghat. In such a situation the Committee proposed the Dept. to consider the suggestion given by SEAC or else cancel the mining plan and Letter of Intent (LoI) issued by concerned Department / Authority and intimate to SEIAA/SEAC, Bihar for consideration.

**Consideration of ToR Proposals:-**

**AGENDA ITEM NO. 01**

**Sand Mining Project on river Kiul at (Jamui Kuil Block-01) Sand Ghat of Jamui district, Area –25 Ha. (File No.:- SIA/1(a)/2314/2023). Online Proposal No.:- SIA/BR/MIN/413052/2023).**

Proponent:-Ravi Shankar Kumar,

Consultant: - P & M Solution,



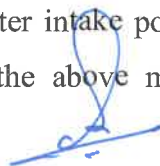


Application along with filled up Form - I, Pre-feasibility Report and Environment Management Plan in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> February, 2023 for obtaining Terms of Reference (ToR).

Decision of earlier meeting dated – 06.04.2024 (Ref .No. 172 dated 10.04.2024) “the Committee recommends to defer the proposal for next meeting with direction to the proponent to produce the report from the competent authority of the Water Resources Department, Govt. of Bihar.”

The Project proponent in this regard has drawn the attention of the Committee towards the decision of the SEIAA taken at its 34<sup>th</sup> meeting wherein it has been decided to follow the minimum distance (i.e 250 meters upstream side and 500 meters on the downstream side) provided in the guidelines mentioned at serial no. (h) page no 22 of the Enforcement and Monitoring Guidelines for Sand mining – 2020. Hence the Committee decided to recommend the proposed proposal for grant of Term of Reference as per standard Term of Reference conditions recommended by the MoEF&CC, Govt. of India as **Annexure "B"** along with additional specific conditions mentioned below:-

1. Submit a report based on cumulative assessment of increase in air pollutants due to increase in traffic load in view of proposed mining activities on all the roads located within aerial distance of 10 km using suitable air model.
2. If the proposed mining lease has overlapping areas with previously allotted mining lease or already working or worked out mining lease, the same should be clearly shown and details about quantity of sand extracted from overlapped area should be furnished duly certified from District Mining Officer.
3. The satellite imageries (high resolution) of last three years for summer, rainy and winter seasons of each proposed mining lease shall be submitted.
4. Submit a map on appropriate scale to show extraction paths to be used outside the mining lease boundary to approach major public roads (Rural/District road or State/National Highway). Alternative route shall be explored if extraction path is passing through dense population/ human settlements. Also submit cumulative traffic management plan for cluster sand mining proposal.
5. Submit a map of the area falling within 2.5 km radius from boundary of each mining lease showing all man-made public utility features such as bridge/public civil structure (including water intake points), culverts etc. and highways, and a table showing distance of the above mentioned man-made features from the




mining lease boundary to facilitate decision making pertaining to relevant rules / Guidelines.


6. Submit a report of the cumulative EIA/EMP study for the cluster sand mining blocks of the proposed mining site.

**LIST OF PARTICIPANTS IN 37<sup>th</sup> MEETING OF SEAC, BIHAR HELD ON 06<sup>th</sup> MAY, 2024.**

Sl. No.	Name	Designation	Attended on 06.05.2024
1.	Dr. Gopal Sharma	Chairman	Present
2.	Dr. Ramakar Jha	Member	Present
3.	Dr. Bibha Kumari	Member	Present
4.	Dr. Anshumali	Member	Absent
5.	Dr. Aditya Mohanty	Member	Absent
6.	Shri Mokhtarul Haque	Member	Present
7.	Shri Ajit Samaiyar	Member	Absent
8.	Shri Ranjan Kumar	Member	Absent
9.	Shri S. Chandrasekar	Member Secretary	Present

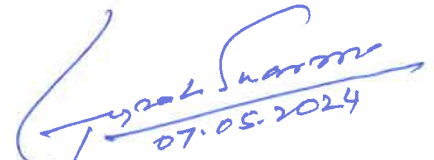
**Signature(s) of the Members Present**

  
(Dr. Ramakar Jha) 7/5/2024  
Member, SEAC

  
(Dr. Bibha Kumari) 7/5/24  
Member, SEAC

  
(Mokhtarul Haque) 7/5/24  
Member, SEAC

  
(S. Chandrasekar, IFS) 07/5/24  
Member Secretary

  
(Dr. Gopal Sharma) 07.05.2024  
Chairman

**Copy to:-**

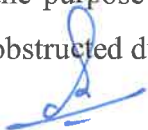
Member Secretary, SEIAA, Bihar  
for information and necessary action.



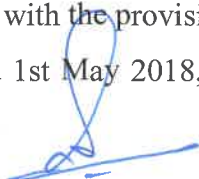
## Annexure – A (Sand Mining Projects – EC) for three meter depth

### A. Specific Condition

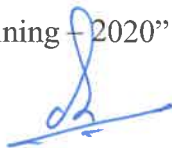
1. The Project Proponent shall obtain all necessary clearance/ permission from all concerned departments before commencement of mining works.
2. The Environmental Clearance will be valid for mine lease period subject to a ceiling of 5 years.
3. The project proponent before starting any activity /preparation of ground, on the leased area shall demarcate his lease hold by RCC pillars erected at the cost of lease holder after certification of the mining officer. On each pillar Geo-Coordinate and fore bearing/ back bearing shall be written with permanent paint mark as described in the mining plan. All the pillars should remain intact at same geo-coordinate. Establishment/ labeling of Benchmark at each pillars or ground control points.
4. Extraction of sand beyond annual production capacity is not permitted.
5. The Project Proponent should undertake the sand mining limited to 03 meters (three meters) depth by semi-mechanised method (without using any heavy machine), preferably by manual excavation.
6. Extraction will be carried out up to a maximum depth of 03 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is earlier.
7. No mining shall be carried out in the areas prominently used by wild animals (birds and reptiles) for nesting. Restricted working hours – Sand mining operation has to be carried out between 6 am to 7 pm.
8. No mining shall be carried out in 3 meter wide strip from the river bank in a River flood plain and within flowing/live water channel.
9. To maintain the safety and stability of Riverbanks, 3 meter or 10% of the width of the River whichever is more will be left intact as "No Mining Zone".
10. No stream shall be diverted for the purpose of sand mining. No natural water course and / or water reservoirs shall be obstructed due to mining operations.



11. The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through covered vehicles / trucks only and the vehicle shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre.
12. The stacking area of mined-out sand which shall be situated near the mining site within a fenced area from all sides to avoid being spread in the nearby areas by high winds and the height of stacking should not exceed 2 meter. Transportation shall be confined to day time only that is from sunrise to sunset, to avoid inconvenience to local population in anyway.
13. Rubbish burial shall not be done in the Rivers.
14. Adequate steps shall be taken to check soil erosion and control of debris flow etc. by constructing engineering structures.
15. Mining activity shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical, and archaeological importance.
16. The approach road from loading point upto main road shall be properly developed with proper width and geometry required for safe movement of traffic by lease holder at his own cost.
17. Main haulage road in the mine shall be provided with permanent water sprinklers and other roads shall be regularly wetted with water tankers fitted with sprinklers.
18. Transportation of the Minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The Project Proponent shall bear the cost towards the widening and strengthening of existing public road-network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.
19. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.



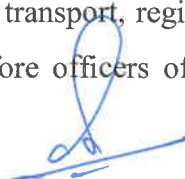
20. Project Proponent shall appoint a Monitoring committee to monitor the replenishment study, traffic management, levels of production, river Bank erosion and maintenance of Road etc.
21. Project Proponent shall submit the annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity / production levels shall be decreased / stopped accordingly till the replenishment is completed.
22. Regular monitoring of the flow rate of the springs and seasonal stream flowing in and around the mine lease shall be carried out and records maintained. Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the SEIAA, Bihar, Regional office, Ranchi, Central Ground water Authority, Regional Director, Central Ground water Board, State Pollution Control Board and Central Pollution Control Board.
23. The project proponent shall abide by the Hon'ble Supreme Court order dated 08.01.2020 [Writ Petition 9 (s) (Civil No. (s) 114/2014)]. Proposal of re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. In compliance to the direction dated 8<sup>th</sup> January, 2020 of Hon'ble Supreme Court in Writ Petitioner(s) Civil No. 114/2014, Common Cause Vs Union of India & Ors.
24. The individual sand ghat-miner will take appropriate measures to avoid parking of empty / loaded vehicles on nearest highway/ public roads to avoid traffic congestion.
25. Project Proponent will adhere to all applicable provisions of Sustainable Sand Mining Management Guidelines 2016 and Enforcement & Monitoring Guidelines for Sand Mining, 2020 (EMGSM – 2020) issued by Ministry of Environment, Forest and Climate Change, Government of India. In case, any ambiguity or variation between the provision of both these document arises, the provision made in "Enforcement and Monitoring Guidelines for Sand Mining + 2020" shall prevail.



26. All specific and general conditions which are of public concern at large shall be permanently displayed at a prominent place for public along with address and contact details of authority where the violation of EC conditions can be reported.
27. Project proponent shall erect a signboard on his project site and display information regarding name of the project, No. & date of validity period of EC, annual production capacity of the mineral and other relevant information for the general public.

**B. General condition**

1. No stacking of sand is allowed on road side of any public road including national highways/ State highways.
2. No labour camp shall be allowed in riverbed.
3. Provision shall be made for housing labour with all necessary infrastructure and facilities (outside mining Block and river-bed) such as fuel for cooking, toilets / mobile toilets, safe drinking water, First-Aid facilities, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4. Labour & Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers shall be undertaken periodically to observe any adverse health impact due to exposure to dust and take corrective measures, if needed.
5. The Project Proponent shall make arrangements for safe drinking water, first aid facility along With anti-venom injection, in case of emergency for the workers.
6. The project proponent shall maintain register for production and dispatch of mineral and submit periodic return (six-monthly) to the SEIAA, Bihar / Regional Office of Ministry of Environment, Forest and Climate Change, Government of India, Ranchi. If the remaining period of lease is for less than a year, the Project Proponent shall submit a monthly return of production.
7. The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle and mine plan. This should be produced before officers of Central and State Government for inspection whenever asked for.



8. Regular monitoring of ground water table shall be carried out at the upstream and depth of water available in the adjoining dug-well.
9. Monitoring of Ambient Air Quality, Water Quality & Noise Quality shall be carried out as per the Notification, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places of loading and unloading points & transfer points to reduce all sorts of fugitive emissions.
10. The funds earmarked for environmental protection measures should be kept in a separate bank account and should not be diverted for other purpose. Year-wise expenditure should be reported to the SEIAA, Bihar.
11. The Project proponent shall provide all necessary logistic support to the authorized officer of this authority as and when required. They will facilitate and assist the authority in site inspection and monitoring.
12. All the provisions made and restrictions imposed as envisaged in the Bihar Minor Mineral Rule, shall be complied with; particularly regarding Environment Management and payment of compensation to the affected land owner(s).
13. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Bihar.
14. The Ministry / SEIAA may alter / modify the above conditions or stipulate any additional condition(s) in the interest of environment.
15. Concealing of factual data or submission of false / fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal/suspension of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
16. The instruction contained herein above regarding air and noise pollution and details of mining proposals shall be displayed on Signboard in Hindi for the public information.
17. The SEIAA may impose additional conditions in the interest of Environment& Ecology whenever it becomes necessary to do so.
18. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

## Annexure – B (Sand Mining Projects – ToR)

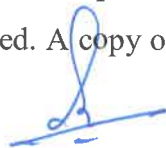
### STANDARD TERMS OF REFERENCE (TOR)

1. 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.
2. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3. 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.
4. 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).
5. 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.
6. 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.
7. 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 e-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 stake holders at large, may also be detailed in the EIA Report.

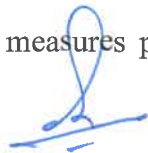
8. Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA.
10. 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 pre operational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11. 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.
12. 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.
13. 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.



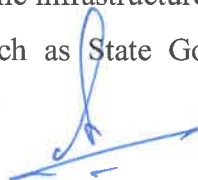
14. Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
15. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
16. A study shall 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.
17. 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.
18. 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 Rare Endangered and Threatened (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 along with 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.
19. Proximity to Areas declared as 'Critically Polluted' or the Project areas 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.
20. 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, anteed based sample survey, family-wise, should be undertaken to assess their requirements, and action programmers prepared and submitted accordingly, integrating the sectoral programmers 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.

21. One season (non-monsoon) 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 PM<sub>10</sub>, particularly for free silica, should be given.
22. Air quality modeling 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. Details of the model used and input parameters used for modeling should be provided for both mining and non-mining scenario. The air quality contours should be shown on a location map clearly indicating the location of the site, location of sensitive receptors, and the habitation. The wind roses showing pre-dominant wind direction also be indicated on the map.
23. 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.
24. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
25. Description of water conservation measures proposed to be adopted in the Project should be given.

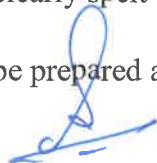


26. Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
27. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may 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.
28. Details of any stream, seasonal or otherwise, passing through the lease area and modification /diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
29. 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.
30. 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 a forestation 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.
31. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck / tractor and other vehicular 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

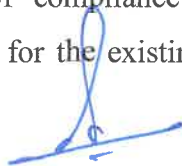


Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

32. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
41. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.



42. 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.
43. 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 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.

A handwritten signature in blue ink, consisting of a looped 'S' shape above a horizontal line.

