

## **STATE EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR**

Ref. No- 149

Patna- 23, Date- 07/07/2020

To,

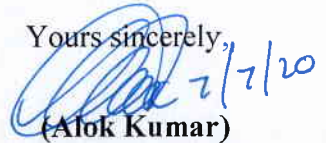
1. Shri Murarijee Mishra,  
Vijay Nagar, Near Temple,  
Rukunpura, Patna - 800014
2. Shri Vijay Kumar Sinha, IFS (Retd.),  
Prasad Bhawan, R. K. Path,  
Pirmohani, Kadamkuan, Patna - 800 003
3. Dr. Samir Kumar Sinha,  
Wildlife Trust of India,  
F-13, Sector - 8, Noida, Uttar Pradesh - 201301
4. Dr. Amar Nath Verma,  
10192 ATS Advantage, Ahinsha Khand - 1,  
Near Habitat Centre, Indirapuram,  
Ghaziabad - 201014.
5. Prof. Shardendu,  
Department of Botany,  
Patna Science College, Patna.
6. Prof. Birendra Prasad,  
Department of Botany,  
Patna University,  
Patna 800 005,
7. Dr. Rakesh Kumar Singh,  
G - 600, 12th Street, GAMA - II, Greater Noida (UP) - 201 310.
8. Dr. Dilip Kumar Paul,  
Assistant Professor & Course Coordinator, M.Sc.  
Environment Science & Management,  
Post Graduation Department of Zoology,  
Patna University, Patna, Bihar - 800 005

Sub:- Proceedings of meeting of State level Expert Appraisal Committee held on 25.06.2020 and 26.06.2020.

Sir,

Please find enclosed herewith proceedings of the State Expert Appraisal Committee (SEAC) meeting held on 25<sup>th</sup> and 26<sup>th</sup> June, 2020.

Yours sincerely,



(Alok Kumar)  
Member Secretary  
SEAC, Bihar

Proceedings of the State Expert Appraisal Committee (SEAC) meeting dated 25<sup>th</sup> and 26<sup>th</sup> June, 2020-

The meeting of SEAC was held through video conferencing on 25<sup>th</sup> and 26<sup>th</sup> June, 2020 as per the schedule letter vide. No. 128 dated- 19.06.2020. The meeting was held utilizing facilities courtesy Bihar State Pollution Control Board, Patna and attended in person by Chairman, Member Secretary and the following member.

1. Prof. Shardendu,

The remaining members participated through video link as under: -

2. Shri Vijay Kumar Sinha,
3. Dr. Samir Kumar Sinha,
4. Dr. Amar Nath Verma,
5. Dr. Rakesh Kumar Singh,
6. Prof. Birendra Prasad,
7. Dr. Dilip Kumar Paul,

Proposals were considered as per agenda. Project Proponents along with their respective Consultants made presentation before the Committee. Agenda wise details are as under:-

**Consideration for Environmental Clearance**

**Agenda Item No.- 1**

1. Sand Mining Project on Ganga River at Dedour Ghat, of District- Patna, Area - 23.50 Ha (File No. - SIA/1(a)/646/19), Online Proposal No.:- SIA/BR/MIN/31520/2019).  
Proponent:- M/s Broad-son Commodities Private Limited.  
Consultant: - Ascenso Enviro Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 21<sup>st</sup> February, 2019 for obtaining Terms of Reference (ToR). SEIAA, Bihar issued ToR Vide F. No. SIA/1(a)/646/19, dated 26.04.2019 and public hearing for the proposed project was conducted by Bihar State Pollution Control Board on 19.12.2019. Final EIA report was submitted by Project Proponent in the prescribed format to SEIAA, Bihar on 17.02.2020 for obtaining Environmental Clearance (EC).

Earlier, in the meeting dated 27<sup>th</sup> and 28<sup>th</sup> February 2020 the Committee had decided to undertake a site visit of the area. A team of SEAC visited the area on 8<sup>th</sup> March 2020 and submitted its report which was discussed. It was decided to recommend the proposal for grant of Environmental Clearance as per standard EC conditions recommended by the MoEF&CC, Govt of India (as Annexure-I) along with additional specific conditions as mentioned below:

- a) The EC shall be valid upto 31.10.2020 or expiry of mine leases whichever is earlier.
- b) The Project Proponent shall submit copy of mining plan valid upto 31.10.2020 or lease period whichever is earlier to SEIAA before starting any mining activity.
- c) Movement of empty and loaded vehicles for the transportation of mined out material from the concerned sand ghats shall be done only after sunset and before sunrise.
- d) The individual sand ghats miner will take appropriate measures to avoid parking of empty / loaded vehicles on nearest highway / public roads to avoid traffic congestion.
- e) The project proponent will adhere to provisions of NMCG Authority Notification, 2016 to be read with 2<sup>nd</sup> amendment vide S.O. 3163 (E) dated 02.09.2019 and S.O. 3163 (E) dated 14<sup>th</sup> September 2019.
- f) Project proponent and the Department of Mines, Govt. of Bihar will adhere to all applicable provisions of Sustainable Sand Mining Management Guidelines, 2016 (SSMG-2016) and Enforcement & Monitoring Guidelines for Sand Enforcement & Monitoring Guidelines for Sand Mining, 2020 (EMGSM-2020) issued by the MoEF&CC, Govt. of India.
- g) The project proponent and the Department of Mines, Govt. of Bihar will ensure that the mining capacity / day and deployment of number of trucks / day to evacuate mined material i.e. sand is limited to the figures as projected in Chapter - 4 (Traffic Analysis) given in the final EIA report of respective sand Ghats.

- h) EC conditions which are in the interest of public at large must be displayed throughout the project life at prominent places which can be easily visible to public mentioning the address and contact number of authority to whom violation of EC conditions can be reported.

**Consideration for Environmental Clearance**

**Agenda Item No.- 2,3,4**

2. Sand Mining Project on Ganga River at Mekra Ghat, of District- Patna, Area - 22.0 Ha (File No. - SIA/1(a)/630/19), Online Proposal No.:- SIA/BR/MIN/31546/2019).  
Proponent: - M/s Broad-son Commodities Private Limited.  
Consultant: - Ascenso Enviro Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 21<sup>st</sup> February, 2019 for obtaining Terms of Reference (ToR). SEIAA, Bihar issued ToR Vide F. No. SIA/1(a)/630/19, dated 26.04.2019 and public hearing for the proposed project was conducted by Bihar State Pollution Control Board on 20.12.2019. Final EIA report was submitted by Project Proponent in the prescribed format to SEIAA, Bihar on 17.02.2020 for obtaining Environmental Clearance (EC).

3. Sand Mining Project on Ganga River at Gop Ghat 1, of District- Vaishali, Area - 23.80 Ha (File No. - SIA/1(a)/652/19), Online Proposal No.:- SIA/BR/MIN/31758/2019).  
Proponent:- M/s Banshidhar Construction Private Limited.  
Consultant:- Oceao Enviro Management Solutions India Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 11<sup>th</sup> March, 2019 for obtaining Terms of Reference (ToR). SEIAA, Bihar issued ToR Vide F. No. SIA/1(a)/652/19, dated 17.05.2019 and public hearing for the proposed project was conducted by Bihar State Pollution Control Board on 17.10.2019. Final EIA report was submitted by Project Proponent in the prescribed format to SEIAA, Bihar on 10.02.2020 for obtaining Environmental Clearance (EC).



4. Sand Mining Project on Gandak River at Chandralaya Ghat 1, of District- Vaishali, Area - 8.0 Ha (File No. - SIA/1(a)/651/19), Online Proposal No.:- SIA/BR/MIN/31800/2019).

Proponent:- M/s Banshidhar Construction Private Limited.

Consultant:- Oceao Enviro Management Solutions India Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 11<sup>th</sup> March, 2019 for obtaining Terms of Reference (ToR). SEIAA, Bihar issued ToR Vide F. No. SIA/1(a)/651/19, dated 17.05.2019 and public hearing for the proposed project was conducted by Bihar State Pollution Control Board on 16.10.2019. Final EIA report was submitted by Project Proponent in the prescribed format to SEIAA, Bihar on 10.02.2020 for obtaining Environmental Clearance (EC).

Earlier, in the meeting dated 27<sup>th</sup> and 28<sup>th</sup> February 2020 the Committee had decided to undertake a site visit of the area. A team of SEAC visited the area on 7<sup>th</sup> & 8<sup>th</sup> March 2020 and submitted its report which was discussed. These ghats are located within the active channels of rivers. Agreeing with the findings of the inspecting team that allowing mining activities in active channels can adversely affect the dynamics of river meandering process, the Committee decided to reject these proposals for Environmental clearance.

#### Consideration of Scoping

##### Sand Mining Project – Gaya District

1. Sand Mining Project on Morhar River at Gaya Morhar 26 Balu Ghat, of District- Gaya, Area - 42.80 Ha (File No. - SIA/1(a)/1160/2020), Online Proposal No.:- SIA/BR/MIN/51619/2020).

Proponent:- M/s Ramanuj Sharma.

Consultant:- P & M Solutions.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

2. Sand Mining Project on Morhar River at Gaya Morhar 29 Balu Ghat, of District- Gaya, Area - 51.0 Ha (File No. - SIA/1(a)/1123/2020), Online Proposal No.:- SIA/BR/MIN/51736/2020).  
Proponent:- M/s Ranjeet Kumar.  
Consultant:- P & M Solutions.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

3. Sand Mining Project on Falgu River at Gaya Falgu 02 Balu Ghat, of District- Gaya, Area - 62.60 Ha (File No. - SIA/1(a)/1161/2020), Online Proposal No.:- SIA/BR/MIN/51426/2020).  
Proponent:- M/s Siyaram Builders & Engineering Private Limited.  
Consultant:- P & M Solutions.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

4. Sand Mining Project on Falgu River at Gaya Falgu 05 Balu Ghat, of District- Gaya, Area - 99.0 Ha (File No. - SIA/1(a)/1159/2020), Online Proposal No.:- SIA/BR/MIN/51410/2020).  
Proponent :- M/s Letz Build Engicom.  
Consultant :- P & M Solutions.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).



5. Sand Mining Project on Morhar River at Gaya Morhar 32 Balu Ghat, of District- Gaya, Area - 99.10 Ha (File No. - SIA/1(a)/1049/2020), Online Proposal No.:- SIA/BR/MIN/51454/2020).  
Proponent:- M/s Kunal Kumar.  
Consultant:- P & M Solutions.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

6. Sand Mining Project on Falgu River at Gaya Falgu 14 Balu Ghat, of District- Gaya, Area - 99.0 Ha (File No. - SIA/1(a)/1121/2020), Online Proposal No.:- SIA/BR/MIN/51585/2020).  
Proponent :- M/s Gautam Erection LLP.  
Consultant :- P & M Solutions.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

#### **Sand Mining Project - Bhojpur District**

7. Sand Mining Project on Son River at Bhojpur Son 66 Balu Ghat, of District- Bhojpur, Area - 60.50 Ha (File No. - SIA/1(a)/1170/2020), Online Proposal No.:- SIA/BR/MIN/51472/2020).  
Proponent:- M/s Ramesh Prasad Yadav.  
Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).





8. Sand Mining Project on Son River at Bhojpur Son 15 Balu Ghat, of District- Bhojpur, Area - 53.30 Ha (File No. - SIA/1(a)/1141/2020), Online Proposal No.:- SIA/BR/MIN/51731/2020).

Proponent:- M/s Manoj Kumar Singh.

Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

9. Sand Mining Project on Son River at Bhojpur Son 18 Balu Ghat, of District- Bhojpur, Area - 41.30 Ha (File No. - SIA/1(a)/1142/2020), Online Proposal No.:- SIA/BR/MIN/51764/2020).

Proponent:- M/s Pratap Developers Private Limited.

Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

10. Sand Mining Project on Son River at Bhojpur Son 19 Balu Ghat, of District- Bhojpur, Area - 52.0 Ha (File No. - SIA/1(a)/1143/2020), Online Proposal No.:- SIA/BR/MIN/51743/2020).

Proponent:- M/s Shiv Pratap Singh.

Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

11. Sand Mining Project on Son River at Bhojpur Son 37 Balu Ghat, of District- Bhojpur, Area - 76.80 Ha (File No. - SIA/1(a)/1147/2020). Online Proposal No.:- SIA/BR/MIN/51746/2020).

Proponent:- M/s Shiv Pratap Singh.

Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

12. Sand Mining Project on Son River at Bhojpur Son 20 Balu Ghat, of District- Bhojpur, Area - 52.20 Ha (File No. - SIA/1(a)/1144/2020). Online Proposal No.:- SIA/BR/MIN/51668/2019).

Proponent:- M/s Debri Markentil Private Limited.

Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

13. Sand Mining Project on Son River at Bhojpur Son 32 Balu Ghat, of District- Bhojpur, Area - 41.20 Ha (File No. - SIA/1(a)/1145/2020), Online Proposal No.:- SIA/BR/MIN/51744/2020).

Proponent:- M/s Vinay Kumar Singh.

Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

14. Sand Mining Project on Son River at Bhojpur Son 53 Balu Ghat, of District- Bhojpur, Area - 17.80 Ha (File No. - SIA/1(a)/1169/2020), Online Proposal No.:- SIA/BR/MIN/51841/2020).

Proponent:- M/s Vimal Kumar.

Consultant:- Earthood Services Private Limited.



Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 11<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

15. Sand Mining Project on Son River at Bhojpur Son 71 Balu Ghat, of District- Bhojpur, Area - 87.70 Ha (File No. - SIA/1(a)/1166/2020), Online Proposal No.:- SIA/BR/MIN/51798/2020).  
Proponent:- M/s Ajay Kumar.  
Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

16. Sand Mining Project on Son River at Bhojpur Son 36 Balu Ghat, of District- Bhojpur, Area - 47.50 Ha (File No. - SIA/1(a)/1146/2020). Online Proposal No.:- SIA/BR/MIN/51449/2020).  
Proponent:- M/s Vivek Kumar Singh.  
Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

17. Sand Mining Project on Son River at Bhojpur Son 12 Balu Ghat, of District- Bhojpur, Area - 56.0 Ha (File No. - SIA/1(a)/1140/2020), Online Proposal No.:- SIA/BR/MIN/51780/2020).  
Proponent:- M/s Absolute Auto Private Limited.  
Consultant:- Earthood Services Private Limited.





Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

18. Sand Mining Project on Son River at Bhojpur Son 56 Balu Ghat, of District- Bhojpur, Area - 42.50 Ha (File No. - SIA/1(a)/1165/2020). Online Proposal No.:- SIA/BR/MIN/53008/2020).  
Proponent:- M/s Broad-Son Commodity Private Limited.  
Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

**Sand Mining Project - Patna District**

19. Sand Mining Project on Son River at Patna Son 13 Balu Ghat, of District- Patna, Area - 46.60 Ha (File No. - SIA/1(a)/1133/2020), Online Proposal No.:- SIA/BR/MIN/51508/2020).  
Proponent:- M/s P. B. Trading Private Limited.  
Consultant:- Earthood Services Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

20. Sand Mining Project on Son River at Patna Son 07 Balu Ghat, of District- Patna, Area - 19.90 Ha (File No. - SIA/1(a)/1131/2020), Online Proposal No.:- SIA/BR/MIN/51680/2020).  
Proponent:- M/s Ranjan Singh.  
Consultant:- Cognizance Research India Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).



21. Sand Mining Project on Son River at Patna Son 27 Balu Ghat, of District- Patna, Area - 40.60 Ha (File No. - SIA/1(a)/1104/2020), Online Proposal No.:- SIA/BR/MIN/51502/2020).

Proponent:- M/s Basukinath Traders.

Consultant:- Cognizance Research India Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

22. Sand Mining Project on Son River at Patna Son 11 Balu Ghat, of District- Patna, Area - 38.40 Ha (File No. - SIA/1(a)/1132/2020), Online Proposal No.:- SIA/BR/MIN/51681/2020).

Proponent:- M/s Surma Proprieties Private Limited.

Consultant:- Cognizance Research India Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

23. Sand Mining Project on Son River at Patna Son 31 Balu Ghat, of District- Patna, Area - 23.20 Ha (File No. - SIA/1(a)/1108/2020), Online Proposal No.:- SIA/BR/MIN/51924/2020).

Proponent:- M/s Nav Durga Automobiles.

Consultant:- Cognizance Research India Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).



**Sand Mining Project - Lakhisarai District**

24. Sand Mining Project on Kiul River at Lakhisarai Kiul 11 Balu Ghat, of District- Lakhisarai, Area - 53.90 Ha (File No. - SIA/1(a)/1162/2020), Online Proposal No.:- SIA/BR/MIN/51629/2020).

Proponent:- M/s Balaji Enterprises.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

**Sand Mining Projects - Arwal District**

25. Sand Mining Project on Son River at Arwal Son 31 Balu Ghat, of District- Arwal, Area - 42.40 Ha (File No. - SIA/1(a)/1090/2020), Online Proposal No.:- SIA/BR/MIN/52569/2020).

Proponent:- M/s Nagendra Kumar.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

26. Sand Mining Project on Son River at Arwal Son 28 Balu Ghat, of District- Arwal, Area - 75.0 Ha (File No. - SIA/1(a)/1168/2020), Online Proposal No.:- SIA/BR/MIN/51599/2020).

Proponent:- M/s Jitendra Kumar Singh.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).





27. Sand Mining Project on Son River at Arwal Son 27 Balu Ghat, of District- Arwal, Area - 69.0 Ha (File No. - SIA/1(a)/1167/2020), Online Proposal No.:- SIA/BR/MIN/51605/2020).

Proponent:- M/s Jitendra Kumar Singh.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

28. Sand Mining Project on Son River at Arwal Son 08 Balu Ghat, of District- Arwal, Area - 38.40 Ha (File No. - SIA/1(a)/1149/2020), Online Proposal No.:- SIA/BR/MIN/52566/2020).

Proponent:- M/s Santosh Promoters Private Limited.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

29. Sand Mining Project on Son River at Arwal Son 32 Balu Ghat, of District- Arwal, Area - 50.0 Ha (File No. - SIA/1(a)/1091/2020), Online Proposal No.:- SIA/BR/MIN/51637/2020).

Proponent:- M/s Ashok Kumar.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

**Sand Mining Projects - Aurangabad District**

31. Sand Mining Project on Son River at Aurangabad Son 40 Balu Ghat, of District- Aurangabad, Area - 100.0 Ha (File No. - SIA/1(a)/1164/2020), Online Proposal No.:- SIA/BR/MIN/51316/2020).

Proponent:- M/s Azim Enterprises.

Consultant:- Center for Envirotech and Management Consultancy Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

32. Sand Mining Project on Son River at Aurangabad Son 15 Balu Ghat, of District- Aurangabad, Area - 98.0 Ha (File No. - SIA/1(a)/1148/2020), Online Proposal No.:- SIA/BR/MIN/52075/2020).

Proponent:- M/s Manoj Kumar Pandey.

Consultant:- Center for Envirotech and Management Consultancy Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

33. Sand Mining Project on Son River at Aurangabad Son 17 Balu Ghat, of District- Aurangabad, Area - 96.50 Ha (File No. - SIA/1(a)/1084/2020), Online Proposal No.:- SIA/BR/MIN/51922/2020).

Proponent:- M/s Gyan Infrabuild Private Limited.

Consultant:- Center for Envirotech and Management Consultancy Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

**Sand Mining Projects - Jamui District**

34. Sand Mining Project on Kiul River at Jamui Kiul 02 Balu Ghat, of District- Jamui, Area - 27.0 Ha (File No. - SIA/1(a)/1135/2020), Online Proposal No.:- SIA/BR/MIN/52552/2020).

Proponent:- M/s Shekhar Kumar Singh.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.



Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 09<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

35. Sand Mining Project on Kiul River at Jamui Kiul 21 Balu Ghat, of District- Jamui, Area - 31.0 Ha (File No. - SIA/1(a)/1155/2020), Online Proposal No.:- SIA/BR/MIN/51378/2020).

Proponent:- M/s Roy Engineers.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

36. Sand Mining Project on Kiul River at Jamui Kiul 09 Balu Ghat, of District- Jamui, Area - 51.0 Ha (File No. - SIA/1(a)/1152/2020), Online Proposal No.:- SIA/BR/MIN/51136/2020).

Proponent:- M/s Rajiv Kumar Singh.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

37. Sand Mining Project on Kiul River at Jamui Kiul 12 Balu Ghat, of District- Jamui, Area - 30.0 Ha (File No. - SIA/1(a)/1154/2020), Online Proposal No.:- SIA/BR/MIN/51157/2020).

Proponent:- M/s D. K. Brothers Trade.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).



38. Sand Mining Project on Kiul River at Jamui Kiul 04 Balu Ghat, of District- Jamui, Area - 34.0 Ha (File No. - SIA/1(a)/1137/2020), Online Proposal No.:- SIA/BR/MIN/51397/2020).  
Proponent:- M/s S. G. Projects Limited.  
Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.  
Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).
39. Sand Mining Project on Kiul River at Jamui Kiul 06 Balu Ghat, of District- Jamui, Area - 32.0 Ha (File No. - SIA/1(a)/1139/2020), Online Proposal No.:- SIA/BR/MIN/51422/2020).  
Proponent:- M/s Premium Soft Coke Industries.  
Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.  
Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).
40. Sand Mining Project on Kiul River at Jamui Kiul 05 Balu Ghat, of District- Jamui, Area - 29.0 Ha (File No. - SIA/1(a)/1138/2020), Online Proposal No.:- SIA/BR/MIN/51625/2020).  
Proponent:- M/s Atik Enterprises.  
Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.  
Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).
42. Sand Mining Project on Kiul River at Jamui Kiul 03 Balu Ghat, of District- Jamui, Area - 32.0 Ha (File No. - SIA/1(a)/1136/2020), Online Proposal No.:- SIA/BR/MIN/51945/2020).  
Proponent:- M/s Good Earth Collieries Private Limited.



Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

45. Sand Mining Project on Kiul River at Jamui Kiul 01 Balu Ghat, of District- Jamui, Area - 30.0 Ha (File No. - SIA/1(a)/1134/2020), Online Proposal No.:- SIA/BR/MIN/51421/2020).

Proponent:- M/s Jai Baba Basuki.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

The above mentioned Sand Mining proposals (Agenda Sl. No. 02 to 49, and 54 to 63) were considered by the Committee. It was decided to recommend the proposals for grant of Term of Reference as per standard ToR conditions recommended by the MoEF&CC, Govt. of India (as Annexure II) along with additional specific conditions mentioned below:

- a) 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.
- b) 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.
- c) 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.

- d) Submit District Survey Report (DSR) and other relevant documents prepared in accordance with extant MoEF&CC, Govt. of India Notifications/ rules/guidelines.
- e) 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 marked on current mining plan. Details about quantity of sand extracted from overlapped area should be furnished duly certified from District Mining Officer.
- f) Satellite imagery of last three years for summer, rainy and winter seasons of each proposed mining lease shall be submitted.
- g) Prepare cluster EIA / EMP of mining ghats / blocks qualified to fall in a cluster on a river within a district.

#### **Sand Mining Projects - Supaul District**

**30.** Sand Mining Project on Saptgandhi River at Supaul Saptgandhi river unit - 09 Bulu Ghat, of District- Supaul, Area - 5.50 Ha (File No. - SIA/1(a)/1129/2020), Online Proposal No.:- SIA/BR/MIN/52698/2020).

Proponent:- M/s Subodh Kumar Sinha.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

The above-mentioned Sand Mining proposal was considered by the Committee. From Google imagery prima-facie it appears that sand mining ghats are located in active



river / channels. These rivers are tributaries of river Bagmati which is the habitat of endangered smooth coated otters, gharial and gangetic dolphin etc. These animals migrate to the tributaries in flood seasons. As such the committee resolved to reject the proposal for ToR.

**Sand Mining Projects - Jamui District**

41. Sand Mining Project on Kiul River at Jamui Kiul 28 Balu Ghat, of District- Jamui, Area - 84.0 Ha (File No. - SIA/1(a)/1163/2020), Online Proposal No.:- SIA/BR/MIN/52691/2020).

Proponent:- M/s Gagan Kumar.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

43. Sand Mining Project on Kiul River at Jamui Kiul 27 Balu Ghat, of District- Jamui, Area - 74.0 Ha (File No. - SIA/1(a)/1157/2020), Online Proposal No.:- SIA/BR/MIN/52696/2020).

Proponent:- M/s Pappu Kumar.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

44. Sand Mining Project on Kiul River at Jamui Kiul 25 Balu Ghat, of District- Jamui, Area - 92.0 Ha (File No. - SIA/1(a)/1156/2020), Online Proposal No.:- SIA/BR/MIN/52692/2020).

Proponent:- M/s Ganesh Sai Contractors and Construction Private Limited.

Consultant:- Oceao - Enviro Management Solutions (India) Private Limited.



Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

The above-mentioned Sand Mining proposals (Agenda Sl. No.41,43,44) were considered by the Committee. Looking at the KML files / google imagery it appears that proposed sand mining ghats are located near the Bhimbandh Wildlife Sanctuary, (with in 5 km of protected area). As such the Committee decided to defer it for next meeting. In the meanwhile, a report from Chief Wildlife Warden, Govt. of Bihar on this issue shall be obtained to clarify the exact position.

#### **Sand Mining Projects - Banka District**

46. Sand Mining Project on Chanan River at Banka Chanan 07 Balu Ghat, of District- Banka, Area - 97.0 Ha (File No. - SIA/1(a)/1124/2020), Online Proposal No.:- SIA/BR/MIN/52675/2020).

Proponent:- M/s Prime Vision Industries Private Limited.

Consultant:- P & M Solutions.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

47. Sand Mining Project on Sukhaniya River at Banka Sukhaniya (Block 01 to 05) Balu Ghat, of District- Banka, Area - 76.80 Ha (File No. - SIA/1(a)/1171/2020), Online Proposal No.:- SIA/BR/MIN/52159/2020).

Proponent:- M/s Ghanshayam Kalani.

Consultant:- P & M Solutions.

Application along with filled up 'Form - I' and Prefeasibility report in the prescribed format was submitted to SEIAA, Bihar on 10<sup>th</sup> June, 2020 for obtaining Terms of Reference (ToR).

The above mentioned Sand Mining proposals (Agenda Sl. No. 46 to 47) were considered by the Committee.





The consultant submitted during presentation that the depth of mining operations shall be limited to 2 m whereas in DSR the depth mentioned is 0.5 m. The consultant requested to defer the proposal to next meeting so that he could clarify the situation. The committee while accepting the request further directed for providing total length of all ghats on a particular river in the district.

As decided in previous meeting dated 18<sup>th</sup> and 19<sup>th</sup> June, 2020 the Committee decided to request SEIAA to obtain river wise KML / KMZ file for all the working and worked out mining leases from Department of Mines, Govt. of Bihar and share the same with SEAC at the earliest to facilitate the appraisal of all the sand mining proposals.

Sd/-  
(Prof. Shardendu)  
(Member, SEAC)

Sd/-  
(Dr. Rakesh Kumar Singh)  
(Member, SEAC)


Sd/-  
(Dr. Amar Nath Verma)  
(Member, SEAC)

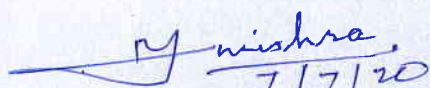
Sd/-  
(Vijay Kumar Sinha)  
(Member, SEAC)

Sd/-  
(Prof. Birendra Prasad)  
(Member, SEAC)

Sd/-  
(Dilip Kumar Paul)  
(Member, SEAC)

Sd/-  
(Dr. Samir Kumar Sinha)  
(Member, SEAC)

 7/7/20  
(Alok Kumar)  
Member Secretary, SEAC

 7/7/20  
(Murarijee Mishra)  
Chairman, SEAC

## **Annexure - I (For Sand Mining Projects - EC)**

### **A. Specific Condition**

1. The EC shall be valid upto 31.10.2020 or expiry of mine leases whichever is earlier.
2. The Project Proponent shall submit copy of mining plan valid upto 31.10.2020 or lease period whichever is earlier to SEIAA before starting any mining activity.
3. Movement of empty and loaded vehicles for the transportation of mined out material from the concerned sand ghats shall be done only after sunset and before sunrise.
4. The individual sand ghats miner will take appropriate measures to avoid parking of empty / loaded vehicles on nearest highway / public roads to avoid traffic congestion.
5. The project proponent will adhere to provisions of NMCG Authority Notification, 2016 to be read with 2<sup>nd</sup> amendment vide S.O. 3163 (E) dated 02.09.2019 and S.O. 3163 (F) dated 14<sup>th</sup> September 2019.
6. Project proponent and the Department of Mines, Govt. of Bihar will ensure to adhere to all applicable provision of Sustainable Sand Mining Management Guidelines, 2016 (SSMG-2016) and Enforcement & Monitoring Guidelines for Sand Enforcement & Monitoring Guidelines for Sand Mining, 2020 (EMGSM-2020) issued by the MoEF&CC, Govt. of India.
7. The project proponent and the Department of Mines, Govt. of Bihar will ensure not to increase the mining capacity/day and deployment of number of trucks/day to evacuate mined material i.e. sand as projected in Chapter - 4 (Traffic Analysis) given in the final EIA report of respective sand Ghats.
8. EC conditions which are in the interest of public at large must be displayed throughout the project life at prominent place which can be easily visible to public mentioning the address and contact number of authority to whom violation of EC conditions can be reported.





9. The mined material i.e. sand shall be stored in a pre-defined place given in the EIA report and shall be properly barricaded by erecting suitable windscreen upto. 10 meter height to prevent dispersion of particulate matter.
10. Necessary approval/permission shall be obtained from competent authority to use evacuation route outside the mining lease boundary within and outside river bed.

#### **B. Statutory Condition**

1. The Project Proponent shall submit to SEIAA, Bihar, a copy of the lease deed of each mining area / Ghat (separately) before starting actual mining on site.
2. The Project proponent will obtain CTE from the BSPCB before preparing site mining if applicable and CTO before starting the mining operation.
3. The project proponent before starting any activity /preparation of ground, on the leased area shall demarcate his lease hold by RCC pillar erected at the cost of lease holder after certification of the mining officer. On each pillar Geo-Coordinate shall be written with permanent paint mark as described in the mining plan.
4. Extraction beyond annual production capacity shall not be done in case where balance validity period is short or less than an year.
5. Semi-mechanized, preferably manual method shall be used for the River Bed Mining.
6. Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River channel whichever is reached earlier.
7. No mining shall be carried out in the areas prominently used by wild animals (birds and reptiles) for nesting.
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. Restricted working hours. Sand mining operation shall be carried out in day hours only.
12. 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 center.
13. The height of sand stock should not increase more than 2 meter in height and entire stock area should be propyl fenced by erecting wind shield up to 4 meter in height.
14. Rubbish burial shall not be done in the Rivers or river bank.
15. Adequate steps shall be taken to check soil erosion and control of debris flow etc. by constructing engineering structures.
16. Mining shall not be undertaken in a mining lease located in 200 - 500 meter of bridge, 200 meter upstream and downstream of water supply / irrigation scheme, 100 meters from the edge of National Highway and railway line, 50 meters from a reservoir, channel or building, 25 meter from the edge of State Highway and 10 meters from the edge of others roads.
17. 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.
18. 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.
19. 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.



20. 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.
21. 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.
22. 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.
23. 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.
24. Regular monitoring of the flow rate of the springs and seasonal nallhas 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.
25. 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.
26. Apart from above the project proponent shall abide by the Sustainable Sand Mining Management Guidelines 2016 as issued MoEF&CC.



27. The mining lease holders shall, after ceasing mining operations, undertake 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.
28. 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.
29. (a) The Project Proponent shall stick to the proposal mentioned in CER and display the name of beneficiary and trainee and details of equipment provided to them.  
The size of sign board shall not be less than be 6x4 feet.
- (b) Expenses on CER shall be incurred at least in proportion of 1/5th (taking 5 years as lease period) for balance lease period being short or less than an year.

#### **C. General condition**

1. No stacking of sand is allowed on road side along 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 (out of mining Block and river bed) such as fuel for cooking, toilets / mobile toilets, safe drinking water, First-Aid facilities, crèche etc. The housing shall 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 contractions 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 and submit periodic return (six-monthly) to the SEIAA, Bihar. If the remaining period of lease is for less than an 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 Government and State 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 dug well.
9. Monitoring of Ambient Air Quality, Water Quality & Noise Quality shall be carried out based on 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 fugitive emissions.
10. The funds earmarked for environmental protection measures should be kept in separate 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 authorised officer of this authority as when required. They will facilitate and assist the authority in site inspection and monitoring.
12. Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLAP(C) Nos. 19628-19629 of 2009] and order dated 03.08.2013 of the Hon'ble National Green Tribunal in application No. 171/2013 shall be strictly followed.
13. 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 land owners.
14. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Bihar.

15. The ministry / SEIAA may alter / modify the above conditions or stipulate any additional condition in the interest of environment.
16. Concealing 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.
17. The instruction contained herein above regarding air and noise pollution and details of mining proposals shall be displayed on Signboard in Hindi for public information.
18. The SEIAA may impose additional conditions in the interest of Environment & Ecology whenever it becomes necessary to do so.
19. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.





## **Annexure - II (Sand Mining Projects - ToR)**

### **STANDARD TERMS OF REFERENCE**

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 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 EIA Report.

8. The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA.
9. 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.
10. 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.
11. 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.
12. 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.
13. The vegetation in the RF / PF areas in the study area, with necessary details, should be given.





14. 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.
15. 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.
16. 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.
17. 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.
18. 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.

19. 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.
20. 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.
21. 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.
22. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
23. Description of water conservation measures proposed to be adopted in the Project should be given.



24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
30. 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.

31. 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.
32. 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.
33. 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.
34. 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.
35. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
36. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
37. A Disaster management Plan shall be prepared and included in the EIA / EMP Report.
38. 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.
39. 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 PII 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.



